

Open Source Used In Firepower System Version 6.0

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2.6 Archive-Tar 1.54

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school, if any, to sign a "copyright disclaimer" for the program, if
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 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 'Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

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From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+cwru/CWRU-2.1-ins)
 id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995
12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
 id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

  I've modified a (modified) version of Bill Rosenblatt's ksh debugger
  to work with bash-2.0. Does ORA have any problem with me distributing
  it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
 id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
 id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
 id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
 id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
 id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey

2.9 beecrypt 3.1.0

2.9.1 Available under license :

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2.10 bind 9.10.2

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Redistribution terms Automated Testing Framework

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* configure.ac, Makefile.am: The original versions were derived from the
 ones in the XML Catalog Manager project, version 2.2.

 Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
 derived form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
 These files were derived from the file_handle, systembuf, pipe and pistream
 classes and tests found in the Boost.Process library.

 Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,

admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

```
==============================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
<!--
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-
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-->

<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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```

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OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
<xsl:call-template name="isc.copyright.format">
<xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
<xsl:text>Copyright (C) </xsl:text>
<xsl:call-template name="copyright.years">
<xsl:with-param name="years" select="year"/>
</xsl:call-template>
<xsl:text> </xsl:text>
<xsl:value-of select="holder"/>
<xsl:text>
</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
</xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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2.11 binutils 2.25

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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally

distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 3, 29 June 2007

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A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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b) under the GNU GPL, with none of the additional permissions of
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3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
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layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

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copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
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suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying

Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

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b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Library.
(This file is under construction.)   -*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
@end display

@appendixsubsec Preamble

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of

any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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be combined with the library in order to run.

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You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

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If distribution of object code is made by offering access to copy

from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the Library'' must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
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@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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2.12 boost 1_52_0

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2.13 bp-ctl 5.0.39.5

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```
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jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

```
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    libbz2.dll test program.
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  usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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2.19 cairo 1.7.4

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2.20 Carp-Clan 6.04

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```
============================
  Package "Carp::Clan"
============================
```

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Abstract:

This module reports errors from the perspective of the caller of a
"clan" of modules, similar to "Carp.pm" itself. But instead of giving
it a number of levels to skip on the calling stack, you give it a
pattern to characterize the package names of the "clan" of modules
which shall never be blamed for any error. :-)

So these modules stick together like a "clan" and any error which
occurs will be blamed on the "outsider" script or modules not belonging
to this "clan".

What's new in this release:

Version 6.04 24.10.2009
+ Solved RT ticket #50796 (inform type of license)
+ Made the test suite compatible with Perl versions < v5.6.0

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Prerequisites:

Perl version 5.005_03 or higher.

(Should probably also work with older versions of Perl, however.)

Installation:

As usual:

```
perl Makefile.PL
make
make test
make install
```

Changes over previous versions:

Please refer to the file "Changes" in this distribution for a more
detailed version history log.

What does it do:

This module is based on "Carp.pm" from Perl 5.005_03. It
has been modified to skip all package names matching the
pattern given in the "use" statement inside the "qw()"
term (or argument list).

Suppose you have a family of modules or classes named
"Pack::A", "Pack::B" and so on, and each of them uses

"Carp::Clan qw(^Pack::);" (or at least the one in which
the error or warning gets raised).

Thus when for example your script "tool.pl" calls module
"Pack::A", and module "Pack::A" calls module "Pack::B", an
exception raised in module "Pack::B" will appear to have
originated in "tool.pl" where "Pack::A" was called, and
not in "Pack::A" where "Pack::B" was called, as the
unmodified "Carp.pm" would try to make you believe :-).

This works similarly if "Pack::B" calls "Pack::C" where
the exception is raised, etcetera.

In other words, this blames all errors in the "Pack::*"
modules on the user of these modules, i.e., on you. ;-)

The skipping of a clan (or family) of packages according
to a pattern describing its members is necessary in cases
where these modules are not classes derived from each
other (and thus when examining "@ISA" - as in the original
"Carp.pm" module - doesn't help).

The purpose and advantage of this is that a "clan" of
modules can work together (and call each other) and throw
exceptions at various depths down the calling hierarchy
and still appear as a monolithic block (as though they
were a single module) from the perspective of the caller.

In case you just want to ward off all error messages from
the module in which you "use Carp::Clan", i.e., if you
want to make all error messages or warnings to appear to
originate from where your module was called (this is what
you usually used to "use Carp;" for ;-)), instead of
in your module itself (which is what you can do with a
"die" or "warn" anyway), you do not need to provide a
pattern, the module will automatically provide the correct
one for you.

I.e., just "use Carp::Clan;" without any arguments and
call "carp" or "croak" as appropriate, and they will
automatically defend your module against all blames!

In other words, a pattern is only necessary if you want to
make several modules (more than one) work together and
appear as though they were only one.

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2.21 CGI-Session 4.42

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2.22 CGI.pm 3.63

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2.23 cifs-mount 1.7

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2.24 Class-Accessor 0.34

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2.25 Class-Data-Inheritable 0.08

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  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
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 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 program `Gnomovision' (a program to direct compilers to make passes
 at assemblers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

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2.26 Class-ErrorHandler 0.01

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Except where otherwise noted, I<Class::ErrorHandler> is Copyright 2004
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name: Class-ErrorHandler
version: 0.01
abstract: Base class for error handling
author: Benjamin Trott <cpan@stupidfool.org>
license: perl
distribution_type: module

no_index:
 directory:
  - t
  - inc
generated_by: Module::Install version 0.33
   The "Artistic License"

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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2.27 Class-Generate 1.1

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Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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2.28 Class-Loader 2.02

2.28.1 Available under license :

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from lib/Class/Loader.pm

<snip>

##
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<snip>

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=cut

from lib/Class/LoaderTest.pm

<snip>

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commands you use may be called something other than 'show w' and 'show
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program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
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<signature of Ty Coon>, 1 April 1989
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That's all there is to it!

2.29 Class-Singleton 1.4

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2.30 Class-XPath 1.4

2.30.1 Available under license :

from README...

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Ty Coon, President of Vice

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2.31 clish 0.7.3

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/**
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clish/param
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\verbatim
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tinyrl/history
tinyrl/vt100

lub/heap/
lub/heap/vxworks
lub/heap/posix
lub/dblockpool
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lubheap/vxworks
lubheap/posix

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<HR>

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distribution.
\verbatim
tinyxml (v2.5.1)
\endverbatim

http://www.sourceforge.net/projects/tinyxml
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2.32 common-sense 3.0

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2.33 Compress-Zlib 2.015

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That's all there is to it!
from /Config-Crontab-1.30/Crontab.pm

<snip>

=head1 AUTHOR

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=cut

2.36 Convert-ASCII-Armour 1.4

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#!/usr/bin/perl -sw
##
Makefile.PL for Conver::ASCII::Armour
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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2.37 Convert-ASN1 0.22

2.37.1 Available under license :

I consider Convert::ASN1 a replacement for my earlier Convert::BER module. While ASN1.pm is not as flexable as BER.pm, because PDUs must be described up front, it is also more powerful. For example an LDAP filter is a recursive structure, BER.pm cannot encode or decode this in a single pass, ASN1.pm can.

Convert::ASN1 will parse ASN.1 descriptions and will encode from and decode to perl data structures using a hierarchy of references.

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The latest release is available from CPAN

http://search.cpan.org/author/GBARR/Convert-ASN1

INSTALL

To install run these commands, substituting x.xx for the version number that you have downloaded

gunzip Convert-ASN1-x.xx.tar.gz

```
tar xvf Convert-ASN1-x.xx.tar
cd Convert-ASN1-x.xx
perl Makefile.PL
make
make test
make install
```

REPORTING BUGS

If you find any bugs with Convert::ASN1, please report then via

```
bugs-Convert-ASN1@rt.cpan.org
```

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2.38 Convert-PEM 0.07

2.38.1 Available under license :

from /lib/Convert/PEM.pm

<snip>
=head1 AUTHOR & COPYRIGHTS

Benjamin Trott, ben@rhumba.pair.com

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.39 coreutils 8.22

2.39.1 Available under license :

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Version 3, 29 June 2007

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major

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b) Convey the object code in, or embodied in, a physical product
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medium customarily used for software interchange, for a price no
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c) Convey individual copies of the object code with a copy of the

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
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The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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2.40 cpio 2.4.2.91

2.40.1 Available under license :

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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If distribution of executable or object code is made by offering

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this
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 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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The "Library", below, refers to any such software library or work

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally

accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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2.41 cracklib 2.8.12

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From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
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Received: from [82.68.43.14] (helo=[192.168.1.3])
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 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>

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-a

2.42 cronie 1.2

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* @(#)bitstring.h 8.1 (Berkeley) 7/19/93
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2.44 Crypt-CBC 2.33

2.44.1 Available under license :

=head1 AUTHOR

Lincoln Stein, lstein@cshl.org

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2.45 Crypt-Cracklib 1.4

2.45.1 Available under license :

from META.yml

<snip>
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2.46 Crypt-DES 2.05

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<snip>

2.47 Crypt-DES_EDE3 0.01

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2.50 Crypt-OpenSSL-AES 0.02

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2.51 Crypt-OpenSSL-Random 0.06

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2.52 Crypt-OpenSSL-X509 1.804

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=cut

2.53 Crypt-PasswdMD5 1.3

2.53.1 Available under license :

from PasswdMD5.pm

```
#
# ----------------------------------------------------------------------------
# "THE BEER-WARE LICENSE" (Revision 42):
# <phk@login.dknet.dk> wrote this file.  As long as you retain this notice you
# can do whatever you want with this stuff. If we meet some day, and you think
# this stuff is worth it, you can buy me a beer in return.   Poul-Henning Kamp
# ----------------------------------------------------------------------------

<snip>

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```

from README...

```
<snip>

"THE BEER-WARE LICENSE" (Revision 42):
<phk@login.dknet.dk>  wrote this  file.  As  long as  you  retain this
notice you can  do whatever you want with this stuff.  If we meet some
day, and you  think this stuff is worth  it, you can buy me  a beer in
return.  Poul-Henning Kamp

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<signature of Ty Coon>, 1 April 1989
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2.54 Crypt-Primes 0.50

2.54.1 Available under license :

from README

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.55 Crypt-Random 1.25

2.55.1 Available under license :

from: /lib/Crypt/Random.pm

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at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.56 Crypt-RSA 1.99

2.56.1 Available under license :

from META.yml

license: perl

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2.57 Crypt-X509-CRL 0.1

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from README

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2.58 curl 7.42.1

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libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

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GnuTLS http://www.gnutls.org/

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(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

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2.59 Cython 0.20.2

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2.60 Data-Buffer 0.04

2.60.1 Available under license :

from Buffer.pm

<snip>

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2.61 Data-Compare 1.22

2.61.1 Available under license :

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Author: Fabien Tassin <fta@sofaraway.org>
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2.62 Data-Serializer 0.49

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.63 Data-UUID 1.203

2.63.1 Available under license :

from README

<snip>

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from META.yml

<snip>

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2.64 Date-Calc 6.3

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<snip>

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2.65 Date-Calc-XS 6.2

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that
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Because of this blurred distinction, using the ordinary General
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concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
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libraries that are incorporated in them. (We have not seen how to achieve
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changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline

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2.66 Date-Manip 6.11

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<signature of Ty Coon>, 1 April 1989
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2.67 DateTime 0.53

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2.69 DateTime-Event-ICal 0.1

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2.76 DBD-mysql/MAKEFILE subpart 4.013

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2.79 DBI 1.609

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from DBI.pm

<snip>

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2.80 debianutils 2.7

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2.81 Devel-TraceCalls 0.04

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2.82 dhcp 4.2.4-P1

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2.86 Digest-MD5 2.39

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*
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* turn is derived from the reference implementation in RFC 1321 which
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*/
```

2.87 Digest-SHA1 2.12

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```
--- #YAML:1.0
name:               Digest-SHA1
version:            2.12
abstract:           Perl interface to the SHA-1 algorithm
author:
  - Gisle Aas <gisle@activestate.com>
license:            perl
distribution_type:  module
configure_requires:
  ExtUtils::MakeMaker:  0
requires:
  Digest::base:  1.00
  perl:          5.004
no_index:
  directory:
    - t
    - inc
generated_by:       ExtUtils::MakeMaker version 6.4801
meta-spec:
  url:      http://module-build.sourceforge.net/META-spec-v1.4.html
  version:  1.4
repository:         http://github.com/gisle/digest-sha1
```

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2.88 Django 1.6.1

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2.89 dmidecode 2.1

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*
* curve25519-donna: Curve25519 elliptic curve, public key function
*
* http://code.google.com/p/curve25519-donna/
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* Adam Langley <agl@imperialviolet.org>
*
* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
*
* More information about curve25519 can be found here
*   http://cr.yp.to/ecdh.html
*
* djb's sample implementation of curve25519 is written in a special assembly
* language called qhasm and uses the floating point registers.
*
* This is, almost, a clean room reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
* from the sample implementation.
*/

2.91 e1000 8.0.35

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Theodore Ts'o
23-June-2007

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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2.106 Error 0.15

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#
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modify it under the same terms as Perl itself.
#
Based on my original Error.pm, and Exceptions.pm by Peter Seibel
<peter@weblogic.com> and adapted by Jesse Glick <jglick@sig.bsh.com>.
#
but modified ***significantly***

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Version 1, February 1989

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2.107 ethtool 3.9

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2.108 ethwireck 1.2

2.108.1 Available under license :

ethwireck -- check if the wire in the Ethernet port is live

History

This code is based on the code form the linuxjournal.com article
about ioctl written by Lisa Corsetti. The original code can be
found at:
ftp://ftp.ssc.com/pub/lj/listings/issue117/README117
and
ftp://ftp.ssc.com/pub/lj/listings/issue117/6908.tgz

I have contacted Lisa and she has confirmed to me that the
license of the code is GPL.

A bit of research showed that the code is actually based

on either the mii-diag tool from Donald Becker or the
standard linux net-tools package. The code from Lisa uses
the exact same variable names and has many other lines in
commen.
Despite this ethwireck offers really new functionallity which
is as such not available via the net-tools.

I have asked Lisa if she wants to maintain the code but
she did not show any interessed. Therefore this code
is now maintained by me.

January 2004, Guido Socher (guido at linuxfocus.org)

Difference to mii-tool

The functionallity is similar to mii-tool however on my computer
mii-tool will only produce this:
SIOCGMIIPHY on 'eth0' failed: Operation not supported

The reasons is that there are a number of incompatible methods
in the various ethernet drivers and mii-tool supports only
the mii-tool interface.

ethwireck supports: ethtool interface, mii-tool and the old mii-tool
interface.

Installation
----
run
make
make install
or to not install to /usr/sbin/ethwireck but to /opt you can use
make PREFIX=/opt install

Sofar I have tested ethwireck only with 2.4.x Kernels. Probably
it will also work with 2.6.x Kernels but I have not used it
on a 2.6.x Kernel.

DHCP clients

There are basically two DHCP clients for Linux:
pump -- this one was originally part of redhat but is now hardly
used anymore. It is still very good and easy to use therefore
I have included the source code within this package.
dhclient -- this is a more modern but also more complicated dhcp client
You can get it from: http://www.isc.org/products/DHCP/

Copyright

The copyright of the ethwireck code is GPL

I am not going to include a copy of the GPL in the package because
the GPL is a very common licence and can be found almost everywhere
on the internet. On top of that the license file would be bigger than
the source code for this program. If you don't know what GPL is then
go to www.gnu.org

Version history

Wed Jan 21 11:23:24 EST 2004, version 1.0

Sat Jan 24 11:44:54 EST 2004, version 1.1, README file updated

Thu Apr 15 22:32:30 EST 2004, version 1.2, ebuild file for gentoo added
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2.109 EV 4.17

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2.113 ExtUtils-CChecker 0.07

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2.114 ExtUtils-Constant 0.23

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2.115 file 5.08

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```
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<snip>
```

2.116 File-Find-Rule 0.33

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<snip>

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Richard Clamp <richardc@unixbeard.net> from a suggestion by Tatsuhiko Miyagawa

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2.118 File-Slurp 9999.13

2.118.1 Available under license :

File::Slurp.pm version 0.04
===========================

This module provides subroutines to read or write entire files with a
simple call. It also has a subroutine for reading the list of filenames
in a directory.

In the extras/ directory you can read an article (slurp_article.pod)
about file slurping and also run a benchmark (slurp_bench.pl) that
compares many ways of slurping/spewing files.

This module was first written and owned by David Muir Sharnoff (MUIR on
CPAN). I checked out his module and decided to write a new version
which would be faster, and with many more features. To that end, David
graciously transfered the namespace to me.

Since then, I discovered and fixed a bug in the original module's test
script (which had only 7 tests), which is included now as t/original.t.
This module now has 164 tests in 7 test scripts, and passes on Windows,
Linux, Solaris and Mac OS X.

There have been some comments about the somewhat unusual version number.
The problem was that David used a future date (2004.0904) in his version
number, and the only way I could get CPAN to index my new module was to

make it have a version number higher than the old one, so I chose the 9999 prefix and appended the real revision number to it.

INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

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<signature of Ty Coon>, 1 April 1989
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2.119 findutils 4.4.0

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2.121 fontconfig 2.6.0

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2.123 freetype 2.3.7

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2.124 fuse 2.9.3

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2.126 gcc 4.7.1

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subsequent copies and derivative works made from that copy.

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the Library into a program that is not a library.

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library''. Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a ``work that uses the
library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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@enumerate a
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@item
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
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@center END OF TERMS AND CONDITIONS
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@page
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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contains portions of the Library), rather than a "work that uses the
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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That's all there is to it!

f2c is a Fortran to C converter under development since 1990 by
David M. Gay (then AT&T Bell Labs, now Bell Labs, Lucent Technologies)
Stu Feldman (then at Bellcore, now at IBM)
Mark Maimone (Carnegie-Mellon University)
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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This is an attempt to acknowledge early contributions to the garbage
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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for

the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
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subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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Version 2.1, February 1999

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2.129 gdbm 1.8.3

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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2.136 glib 1.2.10

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and

modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
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that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at

least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
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2.137 glib2 2.18.0

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[This is the first released version of the library GPL. It is
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code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and

therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the

user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium

customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
Version.

e) Provide Installation Information, but only if you would otherwise
be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
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```
#! /bin/sh
# Attempt to guess a canonical system name.
#   Copyright (C) 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999,
#   2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010,
#   2011 Free Software Foundation, Inc.

timestamp='2011-02-02'

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```

```
#
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#
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#
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# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.
```

2.142 Graph 0.91

2.142.1 Available under license :

```
--- #YAML:1.0
name:               Graph
version:            0.91
abstract:           ~
author:
  - Jarkko Hietaniemi <jhi@iki.fi>
license:            perl
distribution_type:  module
configure_requires:
  ExtUtils::MakeMaker:  0
requires:
  List::Util:     0
  Math::Complex:  0
  Safe:           0
  Scalar::Util:   0
  Storable:       2.05
  Test::More:     0
no_index:
  directory:
    - t
    - inc
generated_by:       ExtUtils::MakeMaker version 6.48
meta-spec:
  url:      http://module-build.sourceforge.net/META-spec-v1.4.html
  version:  1.4
   The "Artistic License"
```

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The hypothetical commands `show w' and `show c' should show the
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.143 grep 2.5.3

2.143.1 Available under license :

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Version 3, 29 June 2007

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<http://www.gnu.org/philosophy/why-not-lgpl.html>.
eval '(exit $?0)' && eval 'exec perl -wS -0777 -pi "$0" ${1+"$@"}'
 & eval 'exec perl -wS -0777 -pi "$0" $argv:q'
   if 0;
Update an FSF copyright year list to include the current year.

my $VERSION = '2012-02-05.21:39'; # UTC

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Written by Jim Meyering and Joel E. Denny

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defaults to "Free Software Foundation, Inc." but may be changed to
any other name by using the "UPDATE_COPYRIGHT_HOLDER" environment
variable.
#
For example, you might wish to use the update-copyright target rule
in maint.mk from gnulib's maintainer-makefile module.
#

```
# Iff a copyright statement is recognized in a file and the final
# year is not the current year, then the statement is updated for the
# new year and it is reformatted to:
#
#   1. Fit within 72 columns.
#   2. Convert 2-digit years to 4-digit years by prepending "19".
#   3. Expand copyright year intervals.  (See "Environment variables"
#      below.)
#
# A warning is printed for every file for which no copyright
# statement is recognized.
#
# Each file's copyright statement must be formatted correctly in
# order to be recognized.  For example, each of these is fine:
#
#   Copyright @copyright{} 1990-2005, 2007-2009 Free Software
#   Foundation, Inc.
#
#   # Copyright (C) 1990-2005, 2007-2009 Free Software
#   # Foundation, Inc.
#
#   /*
#    * Copyright &copy; 90,2005,2007-2009
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#    */
#
# However, the following format is not recognized because the line
# prefix changes after the first line:
#
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#
# However, any correctly formatted copyright statement following
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#
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#
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#      entirely:
#
#        A. (C)
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```

```
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#
#   4. The "Copyright" appears at the beginning of a line, except that it
#     may be prefixed by any sequence (e.g., a comment) of no more than
#     5 characters -- including white space.
#   5. Iff such a prefix is present, the same prefix appears at the
#     beginning of each remaining line within the FSF copyright
#     statement.  There is one exception in order to support C-style
#     comments: if the first line's prefix contains nothing but
#     whitespace surrounding a "/*", then the prefix for all subsequent
#     lines is the same as the first line's prefix except with each of
#     "/" and possibly "*" replaced by a " ".  The replacement of "*"
#     by " " is consistent throughout all subsequent lines.
#   6. Blank lines, even if preceded by the prefix, do not appear
#     within the FSF copyright statement.
#   7. Each copyright year is 2 or 4 digits, and years are separated by
#     commas or dashes.  Whitespace may appear after commas.
#
# Environment variables:
#
#   1. If UPDATE_COPYRIGHT_FORCE=1, a recognized FSF copyright statement
#     is reformatted even if it does not need updating for the new
#     year.  If unset or set to 0, only updated FSF copyright
#     statements are reformatted.
#   2. If UPDATE_COPYRIGHT_USE_INTERVALS=1, every series of consecutive
#     copyright years (such as 90, 1991, 1992-2007, 2008) in a
#     reformatted FSF copyright statement is collapsed to a single
#     interval (such as 1990-2008).  If unset or set to 0, all existing
#     copyright year intervals in a reformatted FSF copyright statement
#     are expanded instead.
#     If UPDATE_COPYRIGHT_USE_INTERVALS=2, convert a sequence with gaps
#     to the minimal containing range.  For example, convert
#     2000, 2004-2007, 2009 to 2000-2009.
#   3. For testing purposes, you can set the assumed current year in
#     UPDATE_COPYRIGHT_YEAR.
#   4. The default maximum line length for a copyright line is 72.
#     Set UPDATE_COPYRIGHT_MAX_LINE_LENGTH to use a different length.
#   5. Set UPDATE_COPYRIGHT_HOLDER if the copyright holder is other
#     than "Free Software Foundation, Inc.".

use strict;
use warnings;

my $copyright_re = 'Copyright';
my $circle_c_re = '(?:\([cC]\)|@copyright{}|&copy;)';
my $holder = $ENV{UPDATE_COPYRIGHT_HOLDER};
$holder ||= 'Free Software Foundation, Inc.';
```

```
my $prefix_max = 5;
my $margin = $ENV{UPDATE_COPYRIGHT_MAX_LINE_LENGTH};
!$margin || $margin !~ m/^\d+$/
 and $margin = 72;

my $tab_width = 8;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/^\d{4}$/)
 {
  my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
  $this_year = $year + 1900;
 }

# Unless the file consistently uses "\r\n" as the EOL, use "\n" instead.
my $eol = /(?:^|[^\r])\n/ ? "\n" : "\r\n";

my $leading;
my $prefix;
my $ws_re;
my $stmt_re;
while (/(^|\n)(.{0,$prefix_max})$copyright_re/g)
 {
  $leading = "$1$2";
  $prefix = $2;
  if ($prefix =~ /^(\s*\/)\*(\s*)$/)
    {
      $prefix =~ s,/, ,;
      my $prefix_ws = $prefix;
      $prefix_ws =~ s/\*/ /; # Only whitespace.
      if (/\G(?:[^*\n]|\*[^\/\n])*\*?\n$prefix_ws/)
        {
          $prefix = $prefix_ws;
        }
    }
  $ws_re = '[ \t\r\f]'; # \s without \n
  $ws_re =
    "(?:$ws_re*(?:$ws_re|\\n" . quotemeta($prefix) . ")$ws_re*)";
  my $holder_re = $holder;
  $holder_re =~ s/\s/$ws_re/g;
  my $stmt_remainder_re =
    "(?:$ws_re$circle_c_re)?"
    . "$ws_re(?:(?:\\d\\d)?\\d\\d(?:,$ws_re?|-))*"
    . "((?:\\d\\d)?\\d\\d)$ws_re$holder_re";
  if (/\G$stmt_remainder_re/)
    {
      $stmt_re =
        quotemeta($leading) . "($copyright_re$stmt_remainder_re)";
```

```
      last;
    }
  }
if (defined $stmt_re)
 {
  /$stmt_re/ or die; # Should never die.
  my $stmt = $1;
  my $final_year_orig = $2;

  # Handle two-digit year numbers like "98" and "99".
  my $final_year = $final_year_orig;
  $final_year <= 99
    and $final_year += 1900;

  if ($final_year != $this_year)
    {
      # Update the year.
      $stmt =~ s/$final_year_orig/$final_year, $this_year/;
    }
  if ($final_year != $this_year || $ENV{'UPDATE_COPYRIGHT_FORCE'})
    {
      # Normalize all whitespace including newline-prefix sequences.
      $stmt =~ s/$ws_re/ /g;

      # Put spaces after commas.
      $stmt =~ s/, ?/, /g;

      # Convert 2-digit to 4-digit years.
      $stmt =~ s/(\b\d\d\b)/19$1/g;

      # Make the use of intervals consistent.
      if (!$ENV{UPDATE_COPYRIGHT_USE_INTERVALS})
        {
          $stmt =~ s/(\d{4})-(\d{4})/join(', ', $1..$2)/eg;
        }
      else
        {
          $stmt =~
            s/
              (\d{4})
              (?:
                (,\ |-)
                ((??{
                  if    ($2 eq '-') { '\d{4}'; }
                  elsif (!$3)       { $1 + 1;  }
                  else              { $3 + 1;  }
                }))
              )+
```

```
          /$1-$3/gx;

        # When it's 2, emit a single range encompassing all year numbers.
        $ENV{UPDATE_COPYRIGHT_USE_INTERVALS} == 2
          and $stmt =~ s/\b(\d{4})\b.*\b(\d{4})\b/$1-$2/;
      }

    # Format within margin.
    my $stmt_wrapped;
    my $text_margin = $margin - length($prefix);
    if ($prefix =~ /^(\t+)/)
      {
        $text_margin -= length($1) * ($tab_width - 1);
      }
    while (length $stmt)
      {
        if (($stmt =~ s/^(.{1,$text_margin})(?: |$)//)
            || ($stmt =~ s/^([\S]+)(?: |$)//))
          {
            my $line = $1;
            $stmt_wrapped .= $stmt_wrapped ? "$eol$prefix" : $leading;
            $stmt_wrapped .= $line;
          }
        else
          {
            # Should be unreachable, but we don't want an infinite
            # loop if it can be reached.
            die;
          }
      }

    # Replace the old copyright statement.
    s/$stmt_re/$stmt_wrapped/;
  }
}
else
{
  print STDERR "$ARGV: warning: copyright statement not found\n";
}

# Local variables:
# mode: perl
# indent-tabs-mode: nil
# eval: (add-hook 'write-file-hooks 'time-stamp)
# time-stamp-start: "my $VERSION = '"
# time-stamp-format: "%:y-%02m-%02d.%02H:%02M"
# time-stamp-time-zone: "UTC"
# time-stamp-end: "'; # UTC"
```

End:

2.146 hd2u 1.0.3

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2.147 Heap 0.8

2.147.1 Available under license :

Heap routines...

This is a collection of routines for managing a heap data structure.

There are two major components: a heap component, and an element component.

A heap package basically keeps a collection of elements and is able to return the smallest one.

The heap component interface is defined in Heap(3) and must be supported by all heap packages. Currently there are three heap components provided:

Heap::Fibonacci (the preferred one)
Heap::Binomial
Heap::Binary

See the book "Algorithms" by Cormen, Leiserson, and Rivest for details of the three heap packages.

The element package wraps the data that is to be stored and retrieved on the heap. You can inherit from the Heap::Elem object to embed element capability into your own objects, or you can use the provided objects to embed your data into elements without having to specifically design your dat for that purpose. The Heap::Elem(3) module provides a detailed description of the requirements of an element module. (The main ones are that it must provide a cmp method so that the elements can be ordered, and it must provide a heap method that will either store or retrieve a scalar value so that the heap routines can map an element reference into its position within the heap.

Version 0.70 was used for the graph routines in the book "Mastering Algorithms with Perl", and there has been some feedback from users, which indicates that it is not too rough around the edges.

Comments to:

John Macdonald <john@perlwolf.com>

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2.148 HOP-Lexer 0.032

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2.149 HOP-Stream 0.03

2.149.1 Available under license :

from /lib/HOP/Stream.pm

<snip>

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from META.yml

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The End

2.150 HTML-HTMLDoc 0.1

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HTML/HTMLDoc version 0.01
==========

This module is an Perl OO-interface to the HTMLDOC commandline-tool available
from http://www.easysw.com/htmldoc. It can be used for easily creating

PDF and PS documents from HTML-Documents.

The module tries to be easy to use. It is possible to send the PDF-output
directly to a browser in a web-environment or to save it to a file.

If you use this module in mod_perl-environment, be careful because there are
problems using IPC::Open3 with mod_perl. See the pod for an other way of this
module to generate the PDF without using ICP::Open3.

Example of use:

```
use HTML::HTMLDoc();
my $htmldoc = new HTML::HTMLDoc();
$htmldoc->set_html_content($html);
my $pdf = $htmldoc->generate_pdf();

# output the generated pdf to a web-browser:
# send the correct header to the client
print "Content-type:application/pdf\n\n";
print $pdf->to_string();

# or save the pdf to file
$pdf->to_file('foo.pdf');
```

LIMITATIONS

HTMLDOC CURRENTLY ONLY SUPPORTS HTML 3.2 AND DOES NOT
SUPPORT STYLE SHEETS!

Please read the documentation of HTMLDOC

Currently this module has only be tested under Linux. Any Unix that is supported
by HTMLDOC should be no problem.

Please let me know of problems.

INSTALLATION

Install HTMLDOC first. See dependencies-section. If you want to use this on a
webserver, you possibly want to disable the gui of HTMLDOC at configure.

To install this module type the following:

```
  perl Makefile.PL
```

make
make test
make install

DEPENDENCIES

This module requires these other modules and libraries:

HTMLDOC programm available on http://www.easysw.com/htmldoc

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.151 HTML-Parser 3.64

2.151.1 Available under license :

from META.yml

<snip>

license: perl

<snip>
from Parser.xs

/*
* Copyright 1999-2009, Gisle Aas.
* Copyright 1999-2000, Michael A. Chase.
*
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program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.152 HTML-Tagset 3.20 :DUPLICATE

2.152.1 Available under license :

from README

<snip>

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2.153 HTML-Template 2.9

2.153.1 Available under license :

from README

<snip>

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<one line to give the program's name and a brief idea of what it does.>
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```
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```

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```
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 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice
```

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2.154 HTML-TokeParser-Simple 3.15

2.154.1 Available under license :

```
---
name: HTML-TokeParser-Simple
version: 3.15
author:
 - Curtis "Ovid" Poe <ovid@cpan.org>
abstract: Easy to use C<HTML::TokeParser> interface
license: perl
resources:
 license: http://dev.perl.org/licenses/
requires:
 HTML::Parser: 3.25
```

```
 HTML::TokeParser: 2.24
 Sub::Override: 0
 Test::More: 0
provides:
 HTML::TokeParser::Simple:
   file: lib/HTML/TokeParser/Simple.pm
   version: 3.15
 HTML::TokeParser::Simple::Token:
   file: lib/HTML/TokeParser/Simple/Token.pm
   version: 3.0
 HTML::TokeParser::Simple::Token::Comment:
   file: lib/HTML/TokeParser/Simple/Token/Comment.pm
   version: 1.0
 HTML::TokeParser::Simple::Token::Declaration:
   file: lib/HTML/TokeParser/Simple/Token/Declaration.pm
   version: 1.0
 HTML::TokeParser::Simple::Token::ProcessInstruction:
   file: lib/HTML/TokeParser/Simple/Token/ProcessInstruction.pm
   version: 2.0
 HTML::TokeParser::Simple::Token::Tag:
   file: lib/HTML/TokeParser/Simple/Token/Tag.pm
   version: 1.2
 HTML::TokeParser::Simple::Token::Tag::End:
   file: lib/HTML/TokeParser/Simple/Token/Tag/End.pm
   version: 1.0
 HTML::TokeParser::Simple::Token::Tag::Start:
   file: lib/HTML/TokeParser/Simple/Token/Tag/Start.pm
   version: 1.0
 HTML::TokeParser::Simple::Token::Text:
   file: lib/HTML/TokeParser/Simple/Token/Text.pm
   version: 1.0
generated_by: Module::Build version 0.2703
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.2.html
 version: 1.2
HTML/TokeParser/Simple version 1.2
==================================

HTML::TokeParser::Simple is a subclass of HTML::TokeParser that uses
easy-to-remember method calls to work with the tokens.  Rather than
try to remember a bunch of array indices or try to write a bunch of
constants for them, you can now do something like:

$token->is_start_tag( 'form' )

Instead of

$token->[0] eq 'S' and $token->[1] eq 'form'
```

INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

DEPENDENCIES

This module requires these other modules and libraries:

HTML::TokeParser 3.25

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Version 1, February 1989

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2.155 htmldoc 1.8.27

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A "png_get_copyright" function is available, for convenient use in "about"
boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the
files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson
glennrp@users.sourceforge.net
September 12, 2004
/* png.h - header file for PNG reference library
*
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* libpng versions 0.89c, June 1996, through 0.96, May 1997: Andreas Dilger
* libpng versions 0.97, January 1998, through 1.2.7 - September 12, 2004: Glenn
* See also "Contributing Authors", below.
*
* Note about libpng version numbers:
*
* Due to various miscommunications, unforeseen code incompatibilities

```
*  and occasional factors outside the authors' control, version numbering
*  on the library has not always been consistent and straightforward.
*  The following table summarizes matters since version 0.89c, which was
*  the first widely used release:
*
*  source                png.h  png.h  shared-lib
*  version               string   int  version
*  -------              ------ -----  ----------
*  0.89c "1.0 beta 3"     0.89      89  1.0.89
*  0.90  "1.0 beta 4"     0.90      90  0.90  [should have been 2.0.90]
*  0.95  "1.0 beta 5"     0.95      95  0.95  [should have been 2.0.95]
*  0.96  "1.0 beta 6"     0.96      96  0.96  [should have been 2.0.96]
*  0.97b "1.00.97 beta 7" 1.00.97   97  1.0.1 [should have been 2.0.97]
*  0.97c                  0.97      97  2.0.97
*  0.98                   0.98      98  2.0.98
*  0.99                   0.99      98  2.0.99
*  0.99a-m                  0.99      99  2.0.99
*  1.00                   1.00     100  2.1.0 [100 should be 10000]
*  1.0.0      (from here on, the   100  2.1.0 [100 should be 10000]
*  1.0.1       png.h string is   10001  2.1.0
*  1.0.1a-e    identical to the  10002  from here on, the shared library
*  1.0.2       source version)   10002  is 2.V where V is the source code
*  1.0.2a-b                      10003  version, except as noted.
*  1.0.3                         10003
*  1.0.3a-d                      10004
*  1.0.4                         10004
*  1.0.4a-f                      10005
*  1.0.5 (+ 2 patches)           10005
*  1.0.5a-d                      10006
*  1.0.5e-r                      10100 (not source compatible)
*  1.0.5s-v                      10006 (not binary compatible)
*  1.0.6 (+ 3 patches)           10006 (still binary incompatible)
*  1.0.6d-f                      10007 (still binary incompatible)
*  1.0.6g                        10007
*  1.0.6h                        10007  10.6h (testing xy.z so-numbering)
*  1.0.6i                        10007  10.6i
*  1.0.6j                        10007  2.1.0.6j (incompatible with 1.0.0)
*  1.0.7beta11-14       DLLNUM   10007  2.1.0.7beta11-14 (binary compatible)
*  1.0.7beta15-18         1      10007  2.1.0.7beta15-18 (binary compatible)
*  1.0.7rc1-2             1      10007  2.1.0.7rc1-2 (binary compatible)
*  1.0.7                  1      10007  (still compatible)
*  1.0.8beta1-4           1      10008  2.1.0.8beta1-4
*  1.0.8rc1               1      10008  2.1.0.8rc1
*  1.0.8                  1      10008  2.1.0.8
*  1.0.9beta1-6           1      10009  2.1.0.9beta1-6
*  1.0.9rc1               1      10009  2.1.0.9rc1
*  1.0.9beta7-10          1      10009  2.1.0.9beta7-10
*  1.0.9rc2               1      10009  2.1.0.9rc2
```

```
*  1.0.9              1    10009  2.1.0.9
*  1.0.10beta1        1    10010  2.1.0.10beta1
*  1.0.10rc1          1    10010  2.1.0.10rc1
*  1.0.10             1    10010  2.1.0.10
*  1.0.11beta1-3      1    10011  2.1.0.11beta1-3
*  1.0.11rc1          1    10011  2.1.0.11rc1
*  1.0.11             1    10011  2.1.0.11
*  1.0.12beta1-2      2    10012  2.1.0.12beta1-2
*  1.0.12rc1          2    10012  2.1.0.12rc1
*  1.0.12             2    10012  2.1.0.12
*  1.1.0a-f           -    10100  2.1.1.0a-f (branch abandoned)
*  1.2.0beta1-2       2    10200  2.1.2.0beta1-2
*  1.2.0beta3-5       3    10200  3.1.2.0beta3-5
*  1.2.0rc1           3    10200  3.1.2.0rc1
*  1.2.0              3    10200  3.1.2.0
*  1.2.1beta1-4       3    10201  3.1.2.1beta1-4
*  1.2.1rc1-2         3    10201  3.1.2.1rc1-2
*  1.2.1              3    10201  3.1.2.1
*  1.2.2beta1-6      12    10202  12.so.0.1.2.2beta1-6
*  1.0.13beta1       10    10013  10.so.0.1.0.13beta1
*  1.0.13rc1         10    10013  10.so.0.1.0.13rc1
*  1.2.2rc1          12    10202  12.so.0.1.2.2rc1
*  1.0.13            10    10013  10.so.0.1.0.13
*  1.2.2             12    10202  12.so.0.1.2.2
*  1.2.3rc1-6        12    10203  12.so.0.1.2.3rc1-6
*  1.2.3             12    10203  12.so.0.1.2.3
*  1.2.4beta1-3      13    10204  12.so.0.1.2.4beta1-3
*  1.0.14rc1         13    10014  10.so.0.1.0.14rc1
*  1.2.4rc1          13    10204  12.so.0.1.2.4rc1
*  1.0.14            10    10014  10.so.0.1.0.14
*  1.2.4             13    10204  12.so.0.1.2.4
*  1.2.5beta1-2      13    10205  12.so.0.1.2.5beta1-2
*  1.0.15rc1-3       10    10015  10.so.0.1.0.15rc1-3
*  1.2.5rc1-3        13    10205  12.so.0.1.2.5rc1-3
*  1.0.15            10    10015  10.so.0.1.0.15
*  1.2.5             13    10205  12.so.0.1.2.5
*  1.2.6beta1-4      13    10206  12.so.0.1.2.6beta1-4
*  1.0.16            10    10016  10.so.0.1.0.16
*  1.2.6             13    10206  12.so.0.1.2.6
*  1.2.7beta1-2      13    10207  12.so.0.1.2.7beta1-2
*  1.0.17rc1         10    10017  12.so.0.1.0.17rc1
*  1.2.7rc1          13    10207  12.so.0.1.2.7rc1
*  1.0.17            10    10017  12.so.0.1.0.17
*  1.2.7             13    10207  12.so.0.1.2.7
*
*  Henceforth the source version will match the shared-library major
*  and minor numbers; the shared-library major version number will be
*  used for changes in backward compatibility, as it is intended.  The
```

```
*    PNG_LIBPNG_VER macro, which is not used within libpng but is available
*    for applications, is an unsigned integer of the form xyyzz corresponding
*    to the source version x.y.z (leading zeros in y and z).  Beta versions
*    were given the previous public release number plus a letter, until
*    version 1.0.6j; from then on they were given the upcoming public
*    release number plus "betaNN" or "rcN".
*
*    Binary incompatibility exists only when applications make direct access
*    to the info_ptr or png_ptr members through png.h, and the compiled
*    application is loaded with a different version of the library.
*
*    DLLNUM will change each time there are forward or backward changes
*    in binary compatibility (e.g., when a new feature is added).
*
* See libpng.txt or libpng.3 for more information.  The PNG specification
* is available as a W3C Recommendation and as an ISO Specification,
* <http://www.w3.org/TR/2003/REC-PNG-20031110/
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2.156 httpd 2.4.12

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```
/*****************************************************************************
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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Mike Belshe (mbelshe@netscape.com)
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 Windows IMDisplay
 Windows ATL COM

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 Windows ATL7 COM

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2.166 IO-Socket-INET6 2.69

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```
---
abstract: 'Object interface for AF_INET|AF_INET6 domain sockets'
author:
 - "This program is based on L<IO::Socket::INET> by Graham Barr\n<gbarr@pobox.com> and currently maintained by the Perl Porters."
 - "Modified by Rafael Martinez Torres <rafael.martinez@novagnet.com> and\nEuro6IX project."
 - "Modified further by Shlomi Fish <shlomif@iglu.org.il>, while disclaiming\nall copyrights."
build_requires:
 Test::More: 0
configure_requires:
 Module::Build: 0.36
dynamic_config: 1
generated_by: 'Module::Build version 0.38, CPAN::Meta::Converter version 2.112621'
keywords:
 - inet6
 - input
 - internet
 - ipv6
 - network
 - networking
 - output
 - socket
 - sockets
license: perl
```

meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: IO-Socket-INET6
provides:
 IO::Socket::INET6:
   file: lib/IO/Socket/INET6.pm
   version: 2.69
requires:
 Carp: 0
 Errno: 0
 Exporter: 0
 IO::Socket: 0
 Socket: 0
 Socket6: 0.12
 strict: 0
 warnings: 0
resources:
 license: http://dev.perl.org/licenses/
 repository: https://bitbucket.org/shlomif/perl-io-socket-inet6
version: 2.69
IO::Socket::INET6

1. Abstract
IO::Socket::INET6 provides an object interface to creating and using sockets
in both AF_INET|AF_INET6 domain. It is built upon the IO::Socket interface and
inherits all the methods defined by IO::Socket.

WARNING: You should use this module mainly to program IPv6
domain. Most pobably future releases will not support AF_INET | AF_UNSPEC
options, as the module seems to fail on some given corner cases. If you require
IPv4, you are encouraged to use IO::Socket::INET from the application
level. Be warned.

2. Install
 % perl Makefile.PL
 % make
 % make test
 # make install

3. AUTHOR and COPYRIGHT
This program is based on IO::Socket::INET by Graham Barr <gbarr@pobox.com>
and currently maintained by the Perl Porters.

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Euro6IX project.

Further modified by Shlomi Fish <shlomif@iglu.org.il>.

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<signature of Ty Coon>, 1 April 1989
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2.167 IO-Socket-IP 0.31

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The End

2.168 IO-Socket-SSL 1.997

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from META.yml

<snip>

license: perl

<snip>
from /lib/IO/Socket/SSL.pod:

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2.169 IO-String 1.08

2.169.1 Available under license :

IO::String is an IO::File (and IO::Handle) compatible class that read
or write data from in-core strings. It is really just a
simplification of what I needed from Eryq's IO-stringy modules. As
such IO::String is a replacement for IO::Scalar.

Installation as usual:

```
perl Makefile.PL
make
make test
make install
```

Documentation is embedded in the module.

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2.170 IO-Tty 1.08

2.170.1 Available under license :

<snip>

/*
* The following pty-allocation code was heavily inspired by its
* counterparts in openssh 3.0p1 and Xemacs 21.4.5 but is a complete
* rewrite by me, Roland Giersig <RGiersig@cpan.org>.
*
* Nevertheless my references to Tatu Ylonen <ylo@cs.hut.fi>
* and the Xemacs development team for their inspiring code.
*
* mysignal and strlcpy were borrowed from openssh and have their
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*/

<snip>

/* from $OpenBSD: misc.c,v 1.12 2001/06/26 17:27:24 markus Exp $ */

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*/

<snip>

/*  from  $OpenBSD: strlcpy.c,v 1.5 2001/05/13 15:40:16 deraadt Exp $     */

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<snip>

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Originally by Graham Barr E<lt>F<gbarr@pobox.com>E<gt>, based on the
Ptty module by Nick Ing-Simmons E<lt>F<nik@tiuk.ti.com>E<gt>.
```

Now maintained and heavily rewritten by Roland Giersig
E<lt>F<RGiersig@cpan.org>E<gt>.

Contains copyrighted stuff from openssh v3.0p1, authored by Tatu
Ylonen <ylo@cs.hut.fi>, Markus Friedl and Todd C. Miller
<Todd.Miller@courtesan.com>. I also got a lot of inspiry from the pty
code in Xemacs.

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2.171 ipaddr 2.1.7

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2.172 ipmitool 1.8.13

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2.174 iproute2 3.11.0

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*
* Using the InterNet Control Message Protocol (ICMP) "ECHO" facility,
* measure round-trip-delays and packet loss across network paths.
*
* Author -
* Mike Muuss
* U. S. Army Ballistic Research Laboratory
* December, 1983
*
* Status -
* Public Domain.  Distribution Unlimited.
* Bugs -
* More statistics could always be gathered.
* This program has to run SUID to ROOT to access the ICMP socket.
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2.180 jpeg v6b

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The IJG distribution formerly included code to read and write GIF files.
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*/
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ltconfig - Create a system-specific libtool.
Copyright (C) 1996-1998 Free Software Foundation, Inc.
Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
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# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# A lot of this script is taken from autoconf-2.10.

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
if test "${CDPATH+set}" = set; then CDPATH=; export CDPATH; fi

echo=echo
if test "X'($echo '\t') 2>/dev/null'" = 'X\t'; then :
else
 # The Solaris and AIX default echo program unquotes backslashes.
 # This makes it impossible to quote backslashes using
 #   echo "$something" | sed 's/\\/\\\\/g'
 # So, we emulate echo with printf '%s\n'
 echo="printf %s\\n"
 if test "X'($echo '\t') 2>/dev/null'" = 'X\t'; then :
 else
   # Oops.  We have no working printf.  Try to find a not-so-buggy echo.
   echo=echo
   IFS="${IFS=  }"; save_ifs="$IFS"; IFS="${IFS}:"
   for dir in $PATH /usr/ucb; do
     if test -f $dir/echo && test "X'$dir/echo '\t'" = 'X\t'; then
       echo="$dir/echo"
       break
     fi
   done
   IFS="$save_ifs"
 fi
fi

# Sed substitution that helps us do robust quoting.  It backslashifies
# metacharacters that are still active within double-quoted strings.
Xsed='sed -e s/^X//'
```

```
sed_quote_subst='s/\([\\"\\'$\\\\]\)/\\\1/g'

# Same as above, but do not quote variable references.
double_quote_subst='s/\([\\"\\'\\\\]\)/\\\1/g'

# The name of this program.
progname='$echo "X$0" | $Xsed -e 's%^.*/%%"

# Constants:
PROGRAM=ltconfig
PACKAGE=libtool
VERSION=1.2
ac_compile='${CC-cc} -c $CFLAGS $CPPFLAGS conftest.c 1>&5'
ac_link='${CC-cc} -o conftest $CFLAGS $CPPFLAGS $LDFLAGS conftest.c $LIBS 1>&5'
rm="rm -f"

help="Try \'$progname --help' for more information."

# Global variables:
can_build_shared=yes
enable_shared=yes
# All known linkers require a '.a' archive for static linking.
enable_static=yes
ltmain=
silent=
srcdir=
ac_config_guess=
ac_config_sub=
host=
nonopt=
verify_host=yes
with_gcc=no
with_gnu_ld=no

old_AR="$AR"
old_CC="$CC"
old_CFLAGS="$CFLAGS"
old_CPPFLAGS="$CPPFLAGS"
old_LD="$LD"
old_LN_S="$LN_S"
old_NM="$NM"
old_RANLIB="$RANLIB"

# Parse the command line options.
args=
prev=
for option
do
```

```
case "$option" in
-*=*) optarg='echo "$option" | sed 's/[-_a-zA-Z0-9]*=//" ;;
*) optarg= ;;
esac

# If the previous option needs an argument, assign it.
if test -n "$prev"; then
  eval "$prev=\$option"
  prev=
  continue
fi

case "$option" in
--help) cat <<EOM
Usage: $progname [OPTION]... LTMAIN [HOST]

Generate a system-specific libtool script.

  --disable-shared       do not build shared libraries
  --disable-static       do not build static libraries
  --help                 display this help and exit
  --no-verify            do not verify that HOST is a valid host type
  --quiet                same as \'--silent'
  --silent               do not print informational messages
  --srcdir=DIR           find \'config.guess' in DIR
  --version              output version information and exit
  --with-gcc             assume that the GNU C compiler will be used
  --with-gnu-ld          assume that the C compiler uses the GNU linker

LTMAIN is the \'ltmain.sh' shell script fragment that provides basic libtool
functionality.

HOST is the canonical host system name [default=guessed].
EOM
 exit 0
 ;;

 --disable-shared) enable_shared=no ;;

 --disable-static) enable_static=no ;;

 --quiet | --silent) silent=yes ;;

 --srcdir) prev=srcdir ;;
 --srcdir=*) srcdir="$optarg" ;;

 --no-verify) verify_host=no ;;
```

```
 --version) echo "$PROGRAM (GNU $PACKAGE) $VERSION"; exit 0 ;;

 --with-gcc) with_gcc=yes ;;
 --with-gnu-ld) with_gnu_ld=yes ;;

 -*)
   echo "$progname: unrecognized option \'$option'" 1>&2
   echo "$help" 1>&2
   exit 1
   ;;

 *)
   if test -z "$ltmain"; then
     ltmain="$option"
   elif test -z "$host"; then
# This generates an unnecessary warning for sparc-sun-solaris4.1.3_U1
#      if test -n "`echo $option| sed 's/[-a-z0-9.]//g'`"; then
#        echo "$progname: warning \'$option' is not a valid host type" 1>&2
#      fi
     host="$option"
   else
     echo "$progname: too many arguments" 1>&2
     echo "$help" 1>&2
     exit 1
   fi ;;
 esac
done

if test -z "$ltmain"; then
 echo "$progname: you must specify a LTMAIN file" 1>&2
 echo "$help" 1>&2
 exit 1
fi

if test -f "$ltmain"; then :
else
 echo "$progname: \'$ltmain' does not exist" 1>&2
 echo "$help" 1>&2
 exit 1
fi

# Quote any args containing shell metacharacters.
ltconfig_args=
for arg
do
 case "$arg" in
 *" "*|*'"'*|*[\[\]\~\#\$\^\&\*\(\)\{\}\\\|\;\<\>\?]*)
  ltconfig_args="$ltconfig_args '$arg'" ;;
```

```
 *) ltconfig_args="$ltconfig_args $arg" ;;
 esac
done

# A relevant subset of AC_INIT.

# File descriptor usage:
# 0 standard input
# 1 file creation
# 2 errors and warnings
# 3 some systems may open it to /dev/tty
# 4 used on the Kubota Titan
# 5 compiler messages saved in config.log
# 6 checking for... messages and results
if test "$silent" = yes; then
 exec 6>/dev/null
else
 exec 6>&1
fi
exec 5>>./config.log

# NLS nuisances.
# Only set LANG and LC_ALL to C if already set.
# These must not be set unconditionally because not all systems understand
# e.g. LANG=C (notably SCO).
if test "${LC_ALL+set}" = set; then LC_ALL=C; export LC_ALL; fi
if test "${LANG+set}"   = set; then LANG=C;   export LANG;   fi

if (echo "testing\c"; echo 1,2,3) | grep c >/dev/null; then
 # Stardent Vistra SVR4 grep lacks -e, says ghazi@caip.rutgers.edu.
 if (echo -n testing; echo 1,2,3) | sed s/-n/xn/ | grep xn >/dev/null; then
   ac_n= ac_c='
' ac_t=' '
 else
   ac_n=-n ac_c= ac_t=
 fi
else
 ac_n= ac_c='\c' ac_t=
fi

if test -z "$srcdir"; then
 # Assume the source directory is the same one as the path to ltmain.sh.
 srcdir='$echo "$ltmain" | $Xsed -e 's%/[^/]*$%%"
 test "$srcdir" = "$ltmain" && srcdir=.
fi

trap "$rm conftest*; exit 1" 1 2 15
if test "$verify_host" = yes; then
```

```
# Check for config.guess and config.sub.
ac_aux_dir=
for ac_dir in $srcdir $srcdir/.. $srcdir/../..; do
  if test -f $ac_dir/config.guess; then
    ac_aux_dir=$ac_dir
    break
  fi
done
if test -z "$ac_aux_dir"; then
  echo "$progname: cannot find config.guess in $srcdir $srcdir/.. $srcdir/../.." 1>&2
  echo "$help" 1>&2
  exit 1
fi
ac_config_guess=$ac_aux_dir/config.guess
ac_config_sub=$ac_aux_dir/config.sub

# Make sure we can run config.sub.
if $ac_config_sub sun4 >/dev/null 2>&1; then :
else
  echo "$progname: cannot run $ac_config_sub" 1>&2
  echo "$help" 1>&2
  exit 1
fi

echo $ac_n "checking host system type""... $ac_c" 1>&6

host_alias=$host
case "$host_alias" in
"")
  if host_alias='$ac_config_guess'; then :
  else
    echo "$progname: cannot guess host type; you must specify one" 1>&2
    echo "$help" 1>&2
    exit 1
  fi ;;
esac
host='$ac_config_sub $host_alias'
echo "$ac_t$host" 1>&6

# Make sure the host verified.
test -z "$host" && exit 1

elif test -z "$host"; then
 echo "$progname: you must specify a host type if you use \'--no-verify'" 1>&2
 echo "$help" 1>&2
 exit 1
else
 host_alias=$host
```

```
fi

# Transform linux* to *-*-linux-gnu*, to support old configure scripts.
case "$host_os" in
linux-gnu*) ;;
linux*) host='echo $host | sed 's/^\(.*-.*-linux\)\(.*\)$/\1-gnu\2/'
esac

host_cpu='echo $host | sed 's/^\([^-]*\)-\([^-]*\)-\(.*\)$/\1/'
host_vendor='echo $host | sed 's/^\([^-]*\)-\([^-]*\)-\(.*\)$/\2/'
host_os='echo $host | sed 's/^\([^-]*\)-\([^-]*\)-\(.*\)$/\3/'

case "$host_os" in
aix3*)
 # AIX sometimes has problems with the GCC collect2 program.  For some
 # reason, if we set the COLLECT_NAMES environment variable, the problems
 # vanish in a puff of smoke.
 if test "${COLLECT_NAMES+set}" != set; then
   COLLECT_NAMES=
   export COLLECT_NAMES
 fi
 ;;
esac

# Determine commands to create old-style static archives.
old_archive_cmds='$AR cru $oldlib$oldobjs'
old_postinstall_cmds='chmod 644 $oldlib'
old_postuninstall_cmds=

# Set a sane default for 'AR'.
test -z "$AR" && AR=ar

# If RANLIB is not set, then run the test.
if test "${RANLIB+set}" != "set"; then
 result=no

 echo $ac_n "checking for ranlib... $ac_c" 1>&6
 IFS="${IFS=  }"; save_ifs="$IFS"; IFS="${IFS}:"
 for dir in $PATH; do
   test -z "$dir" && dir=.
   if test -f $dir/ranlib; then
     RANLIB="ranlib"
     result="ranlib"
     break
   fi
 done
 IFS="$save_ifs"
```

```
 echo "$ac_t$result" 1>&6
fi

if test -n "$RANLIB"; then
 old_archive_cmds="$old_archive_cmds;\$RANLIB \$oldlib"
 old_postinstall_cmds="\$RANLIB \$oldlib;$old_postinstall_cmds"
fi

# Check to see if we are using GCC.
if test "$with_gcc" != yes || test -z "$CC"; then
 # If CC is not set, then try to find GCC or a usable CC.
 if test -z "$CC"; then
   echo $ac_n "checking for gcc... $ac_c" 1>&6
   IFS="${IFS=  }"; save_ifs="$IFS"; IFS="${IFS}:"
   for dir in $PATH; do
     IFS="$save_ifs"
     test -z "$dir" && dir=.
     if test -f $dir/gcc; then
 CC="gcc"
 break
     fi
   done
   IFS="$save_ifs"

   if test -n "$CC"; then
     echo "$ac_t$CC" 1>&6
   else
     echo "$ac_t"no 1>&6
   fi
 fi

 # Not "gcc", so try "cc", rejecting "/usr/ucb/cc".
 if test -z "$CC"; then
   echo $ac_n "checking for cc... $ac_c" 1>&6
   IFS="${IFS=  }"; save_ifs="$IFS"; IFS="${IFS}:"
   cc_rejected=no
   for dir in $PATH; do
     test -z "$dir" && dir=.
     if test -f $dir/cc; then
 if test "$dir/cc" = "/usr/ucb/cc"; then
   cc_rejected=yes
   continue
 fi
 CC="cc"
 break
     fi
   done
   IFS="$save_ifs"
```

```
  if test $cc_rejected = yes; then
    # We found a bogon in the path, so make sure we never use it.
    set dummy $CC
    shift
    if test $# -gt 0; then
# We chose a different compiler from the bogus one.
# However, it has the same name, so the bogon will be chosen
# first if we set CC to just the name; use the full file name.
shift
set dummy "$dir/cc" "$@"
shift
CC="$@"
    fi
  fi

  if test -n "$CC"; then
    echo "$ac_t$CC" 1>&6
  else
    echo "$ac_t"no 1>&6
  fi

  if test -z "$CC"; then
    echo "$progname: error: no acceptable cc found in \$PATH" 1>&2
    exit 1
  fi
fi

# Now see if the compiler is really GCC.
with_gcc=no
echo $ac_n "checking whether we are using GNU C... $ac_c" 1>&6
echo "$progname:424: checking whether we are using GNU C" >&5

$rm conftest.c
cat > conftest.c <<EOF
#ifdef __GNUC__
 yes;
#endif
EOF
 if { ac_try='${CC-cc} -E conftest.c'; { (eval echo $progname:432: \"$ac_try\") 1>&5; (eval $ac_try) 2>&5; }; } |
egrep yes >/dev/null 2>&1; then
  with_gcc=yes
fi
$rm conftest.c
echo "$ac_t$with_gcc" 1>&6
fi

# Allow CC to be a program name with arguments.
set dummy $CC
```

```
compiler="$2"

echo $ac_n "checking for $compiler option to produce PIC... $ac_c" 1>&6
pic_flag=
special_shlib_compile_flags=
wl=
link_static_flag=
no_builtin_flag=

if test "$with_gcc" = yes; then
 wl='-Wl,'
 link_static_flag='-static'
 no_builtin_flag=' -fno-builtin'

 case "$host_os" in
 aix3* | aix4* | irix5* | irix6* | osf3* | osf4*)
   # PIC is the default for these OSes.
   ;;
 os2*)
   # We can build DLLs from non-PIC.
   ;;
 amigaos*)
   # FIXME: we need at least 68020 code to build shared libraries, but
   # adding the '-m68020' flag to GCC prevents building anything better,
   # like '-m68040'.
   pic_flag='-m68020 -resident32 -malways-restore-a4'
   ;;
 *)
   pic_flag='-fPIC'
   ;;
 esac
else
 # PORTME Check for PIC flags for the system compiler.
 case "$host_os" in
 aix3* | aix4*)
   # All AIX code is PIC.
   link_static_flag='-bnso -bI:/lib/syscalls.exp'
   ;;

 hpux9* | hpux10*)
   # Is there a better link_static_flag that works with the bundled CC?
   wl='-Wl,'
   link_static_flag="${wl}-a ${wl}archive"
   pic_flag='+Z'
   ;;

 irix5* | irix6*)
   wl='-Wl,'
```

```
  link_static_flag='-non_shared'
  # PIC (with -KPIC) is the default.
  ;;

os2*)
  # We can build DLLs from non-PIC.
  ;;

osf3* | osf4*)
  # All OSF/1 code is PIC.
  wl='-Wl,'
  link_static_flag='-non_shared'
  ;;

sco3.2v5*)
  pic_flag='-Kpic'
  link_static_flag='-dn'
  special_shlib_compile_flags='-belf'
  ;;

solaris2*)
  pic_flag='-KPIC'
  link_static_flag='-Bstatic'
  wl='-Wl,'
  ;;

sunos4*)
  pic_flag='-PIC'
  link_static_flag='-Bstatic'
  wl='-Qoption ld '
  ;;

sysv4.2uw2*)
  pic_flag='-KPIC'
  link_static_flag='-Bstatic'
  wl='-Wl,'
  ;;

uts4*)
  pic_flag='-pic'
  link_static_flag='-Bstatic'
  ;;

*)
  can_build_shared=no
  ;;
 esac
fi
```

```
if test -n "$pic_flag"; then
 echo "$ac_t$pic_flag" 1>&6

 # Check to make sure the pic_flag actually works.
 echo $ac_n "checking if $compiler PIC flag $pic_flag works... $ac_c" 1>&6
 $rm conftest*
 echo > conftest.c
 save_CFLAGS="$CFLAGS"
 CFLAGS="$CFLAGS $pic_flag -DPIC"
 echo "$progname:547: checking if $compiler PIC flag $pic_flag works" >&5
 if { (eval echo $progname:548: \"$ac_compile\") 1>&5; (eval $ac_compile) 2>conftest.err; } && test -s conftest.o;
then
   # Append any warnings to the config.log.
   cat conftest.err 1>&5

   # On HP-UX, both CC and GCC only warn that PIC is supported... then they
   # create non-PIC objects.  So, if there were any warnings, we assume that
   # PIC is not supported.
   if test -s conftest.err; then
     echo "$ac_t"no 1>&6
     can_build_shared=no
     pic_flag=
   else
     echo "$ac_t"yes 1>&6
     pic_flag=" $pic_flag"
   fi
 else
   # Append any errors to the config.log.
   cat conftest.err 1>&5
   can_build_shared=no
   pic_flag=
   echo "$ac_t"no 1>&6
 fi
 CFLAGS="$save_CFLAGS"
 $rm conftest*
else
 echo "$ac_t"none 1>&6
fi

# Check for any special shared library compilation flags.
if test -n "$special_shlib_compile_flags"; then
 echo "$progname: warning: \'$CC' requires \'$special_shlib_compile_flags' to build shared libraries" 1>&2
 if echo "$old_CC $old_CFLAGS " | egrep -e "[  ]$special_shlib_compile_flags[  ]" >/dev/null; then :
 else
   echo "$progname: add \'$special_shlib_compile_flags' to the CC or CFLAGS env variable and reconfigure" 1>&2
   can_build_shared=no
 fi
```

```
fi

echo $ac_n "checking if $compiler static flag $link_static_flag works... $ac_c" 1>&6
$rm conftest*
echo 'main(){return(0);}' > conftest.c
save_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS $link_static_flag"
echo "$progname:591: checking if $compiler static flag $link_static_flag works" >&5
if { (eval echo $progname:592: \"$ac_link\") 1>&5; (eval $ac_link) 2>&5; } && test -s conftest; then
 echo "$ac_t$link_static_flag" 1>&6
else
 echo "$ac_t"none 1>&6
 link_static_flag=
fi
LDFLAGS="$save_LDFLAGS"
$rm conftest*

if test -z "$LN_S"; then
 # Check to see if we can use ln -s, or we need hard links.
 echo $ac_n "checking whether ln -s works... $ac_c" 1>&6
 $rm conftestdata
 if ln -s X conftestdata 2>/dev/null; then
   $rm conftestdata
   LN_S="ln -s"
 else
   LN_S=ln
 fi
 if test "$LN_S" = "ln -s"; then
   echo "$ac_t"yes 1>&6
 else
   echo "$ac_t"no 1>&6
 fi
fi

# Make sure LD is an absolute path.
if test -z "$LD"; then
 ac_prog=ld
 if test "$with_gcc" = yes; then
   # Check if gcc -print-prog-name=ld gives a path.
   echo $ac_n "checking for ld used by GCC... $ac_c" 1>&6
   echo "$progname:624: checking for ld used by GCC" >&5
   ac_prog='($CC -print-prog-name=ld) 2>&5'
   case "$ac_prog" in
   # Accept absolute paths.
   /* | [A-Za-z]:\\*)
     test -z "$LD" && LD="$ac_prog"
     ;;
   "")
```

```
    # If it fails, then pretend we are not using GCC.
    ac_prog=ld
    ;;
  *)
    # If it is relative, then search for the first ld in PATH.
    with_gnu_ld=unknown
    ;;
  esac
elif test "$with_gnu_ld" = yes; then
  echo $ac_n "checking for GNU ld... $ac_c" 1>&6
  echo "$progname:642: checking for GNU ld" >&5
else
  echo $ac_n "checking for non-GNU ld""... $ac_c" 1>&6
  echo "$progname:645: checking for non-GNU ld" >&5
fi

if test -z "$LD"; then
  IFS="${IFS=  }"; ac_save_ifs="$IFS"; IFS="${IFS}:"
  for ac_dir in $PATH; do
    test -z "$ac_dir" && ac_dir=.
    if test -f "$ac_dir/$ac_prog"; then
LD="$ac_dir/$ac_prog"
# Check to see if the program is GNU ld.  I'd rather use --version,
# but apparently some GNU ld's only accept -v.
# Break only if it was the GNU/non-GNU ld that we prefer.
if "$LD" -v 2>&1 < /dev/null | egrep '(GNU|with BFD)' > /dev/null; then
  test "$with_gnu_ld" != no && break
else
  test "$with_gnu_ld" != yes && break
fi
    fi
  done
  IFS="$ac_save_ifs"
fi

if test -n "$LD"; then
  echo "$ac_t$LD" 1>&6
else
  echo "$ac_t"no 1>&6
fi

if test -z "$LD"; then
  echo "$progname: error: no acceptable ld found in \$PATH" 1>&2
  exit 1
fi
fi

# Check to see if it really is or is not GNU ld.
```

```
echo $ac_n "checking if the linker ($LD) is GNU ld... $ac_c" 1>&6
# I'd rather use --version here, but apparently some GNU ld's only accept -v.
if $LD -v 2>&1 </dev/null | egrep '(GNU|with BFD)' 1>&5; then
 with_gnu_ld=yes
else
 with_gnu_ld=no
fi
echo "$ac_t$with_gnu_ld" 1>&6

# See if the linker supports building shared libraries.
echo $ac_n "checking whether the linker ($LD) supports shared libraries... $ac_c" 1>&6

allow_undefined_flag=
no_undefined_flag=
archive_cmds=
old_archive_from_new_cmds=
export_dynamic_flag_spec=
hardcode_libdir_flag_spec=
hardcode_libdir_separator=
hardcode_direct=no
hardcode_minus_L=no
hardcode_shlibpath_var=unsupported
runpath_var=

case "$host_os" in
amigaos* | sunos4*)
 # On these operating systems, we should treat GNU ld like the system ld.
 gnu_ld_acts_native=yes
 ;;
*)
 gnu_ld_acts_native=no
 ;;
esac

ld_shlibs=yes
if test "$with_gnu_ld" = yes && test "$gnu_ld_acts_native" != yes; then

 # See if GNU ld supports shared libraries.
 if $LD --help 2>&1 | egrep ': supported targets:.* elf' > /dev/null; then
   archive_cmds='$CC -shared ${wl}-soname $wl$soname -o $lib$libobjs'
   runpath_var=LD_RUN_PATH
   ld_shlibs=yes
 else
   ld_shlibs=no
 fi

 if test "$ld_shlibs" = yes; then
   hardcode_libdir_flag_spec='${wl}--rpath ${wl}$libdir'
```

```
  export_dynamic_flag_spec='${wl}--export-dynamic'
 fi
else
 # PORTME fill in a description of your system's linker (not GNU ld)
 case "$host_os" in
 aix3*)
  allow_undefined_flag=unsupported
  archive_cmds='$NM$libobjs | $global_symbol_pipe | sed '\''s/.* //'\'' > $lib.exp;$LD -o $objdir/$soname$libobjs -
bE:$lib.exp -T512 -H512 -bM:SRE;$AR cru $lib $objdir/$soname'
  # Note: this linker hardcodes the directories in LIBPATH if there
  # are no directories specified by -L.
  hardcode_minus_L=yes
  if test "$with_gcc" = yes && test -z "$link_static_flag"; then
   # Neither direct hardcoding nor static linking is supported with a
   # broken collect2.
   hardcode_direct=unsupported
  fi
  ;;

 aix4*)
  allow_undefined_flag=unsupported
  archive_cmds='$NM$libobjs | $global_symbol_pipe | sed '\''s/.* //'\'' > $lib.exp;$CC -o $objdir/$soname$libobjs
${wl}-bE:$lib.exp ${wl}-bM:SRE ${wl}-bnoentry;$AR cru $lib $objdir/$soname'
  hardcode_direct=yes
  hardcode_minus_L=yes
  ;;

 amigaos*)
  archive_cmds='$rm $objdir/a2ixlibrary.data;$echo "#define NAME $libname" > $objdir/a2ixlibrary.data;$echo
"#define LIBRARY_ID 1" >> $objdir/a2ixlibrary.data;$echo "#define VERSION $major" >>
$objdir/a2ixlibrary.data;$echo "#define REVISION $revision" >> $objdir/a2ixlibrary.data;$AR cru
$lib$libobjs;$RANLIB $lib;(cd $objdir && a2ixlibrary -32)'
  hardcode_libdir_flag_spec='-L$libdir'
  hardcode_minus_L=yes
  ;;

 # FreeBSD 2.2.[012] allows us to include c++rt0.o to get C++ constructor
 # support.  Future versions do this automatically, but an explicit c++rt0.o
 # does not break anything, and helps significantly (at the cost of a little
 # extra space).
 freebsd2.2*)
  archive_cmds='$LD -Bshareable -o $lib$libobjs /usr/lib/c++rt0.o'
  hardcode_libdir_flag_spec='-R$libdir'
  hardcode_direct=yes
  hardcode_minus_L=yes
  hardcode_shlibpath_var=no
  ;;
```

```
  # Unfortunately, older versions of FreeBSD 2 do not have this feature.
  freebsd2*)
    archive_cmds='$LD -Bshareable -o $lib$libobjs'
    hardcode_direct=yes
    hardcode_minus_L=yes
    hardcode_shlibpath_var=no
    ;;

  # FreeBSD 3, at last, uses gcc -shared to do shared libraries.
  freebsd3*)
    archive_cmds='$CC -shared -o $lib$libobjs'
    hardcode_libdir_flag_spec='-R$libdir'
    hardcode_direct=yes
    hardcode_minus_L=yes
    hardcode_shlibpath_var=no
    ;;

  hpux9*)
    archive_cmds='$rm $objdir/$soname;$LD -b +s +b $install_libdir -o $objdir/$soname$libobjs;mv
  $objdir/$soname $lib'
    hardcode_libdir_flag_spec='${wl}+b ${wl}$libdir'
    hardcode_direct=yes
    hardcode_minus_L=yes
    export_dynamic_flag_spec='${wl}-E'
    ;;

  hpux10*)
    archive_cmds='$LD -b +h $soname +s +b $install_libdir -o $lib$libobjs'
    hardcode_libdir_flag_spec='${wl}+b ${wl}$libdir'
    hardcode_direct=yes
    hardcode_minus_L=yes
    export_dynamic_flag_spec='${wl}-E'
    ;;

  irix5* | irix6*)
    archive_cmds='$LD -shared -o $lib -soname $soname -set_version $verstring$libobjs'
    hardcode_libdir_flag_spec='${wl}-rpath ${wl}$libdir'
    ;;

  netbsd*)
    # Tested with NetBSD 1.2 ld
    archive_cmds='$LD -Bshareable -o $lib$libobjs'
    hardcode_libdir_flag_spec='-R$libdir'
    hardcode_direct=yes
    hardcode_shlibpath_var=no
    ;;

  openbsd*)
```

```
  archive_cmds='$LD -Bshareable -o $lib$libobjs'
  hardcode_libdir_flag_spec='-R$libdir'
  hardcode_direct=yes
  hardcode_shlibpath_var=no
  ;;

 os2*)
  hardcode_libdir_flag_spec='-L$libdir'
  hardcode_minus_L=yes
  allow_undefined_flag=unsupported
  archive_cmds='$echo "LIBRARY $libname INITINSTANCE" > $objdir/$libname.def;$echo "DESCRIPTION
\"$libname\"" >> $objdir/$libname.def;$echo DATA >> $objdir/$libname.def;$echo " SINGLE NONSHARED" >>
$objdir/$libname.def;$echo EXPORTS >> $objdir/$libname.def;emxexp$libobjs >> $objdir/$libname.def;$CC -
Zdll -Zcrtdll -o $lib$libobjs $objdir/$libname.def'
  old_archive_from_new_cmds='emximp -o $objdir/$libname.a $objdir/$libname.def'
  ;;

 osf3* | osf4*)
  allow_undefined_flag=' -expect_unresolved \*'
  archive_cmds='$LD -shared${allow_undefined_flag} -o $lib -soname $soname -set_version
$verstring$libobjs$deplibs'
  hardcode_libdir_flag_spec='${wl}-rpath ${wl}$libdir'
  hardcode_libdir_separator=:
  ;;

 sco3.2v5*)
  archive_cmds='$LD -G -o $lib$libobjs'
  hardcode_direct=yes
  ;;

 solaris2*)
  no_undefined_flag=' -z text'
  archive_cmds='$LD -G${allow_undefined_flag} -h $soname -o $lib$libobjs'
  hardcode_libdir_flag_spec='-R$libdir'
  hardcode_shlibpath_var=no

  # Solaris 2 before 2.5 hardcodes -L paths.
  case "$host_os" in
  solaris2.[0-4]*)
    hardcode_minus_L=yes
    ;;
  esac
  ;;

 sunos4*)
  if test "$with_gcc" = yes; then
    archive_cmds='$CC -shared -o $lib$libobjs'
  else
```

```
    archive_cmds='$LD -assert pure-text -Bstatic -o $lib$libobjs'
  fi

  if test "$with_gnu_ld" = yes; then
    export_dynamic_flag_spec='${wl}-export-dynamic'
  fi
  hardcode_libdir_flag_spec='-L$libdir'
  hardcode_direct=yes
  hardcode_minus_L=yes
  hardcode_shlibpath_var=no
  ;;

 uts4*)
  archive_cmds='$LD -G -h $soname -o $lib$libobjs'
  hardcode_libdir_flag_spec='-L$libdir'
  hardcode_direct=no
  hardcode_minus_L=no
  hardcode_shlibpath_var=no
  ;;

 *)
  ld_shlibs=no
  can_build_shared=no
  ;;
 esac
fi
echo "$ac_t$ld_shlibs" 1>&6

if test -z "$NM"; then
 echo $ac_n "checking for BSD-compatible nm... $ac_c" 1>&6
 case "$NM" in
 /* | [A-Za-z]:\\*) ;; # Let the user override the test with a path.
 *)
  IFS="${IFS=  }"; ac_save_ifs="$IFS"; IFS="${IFS}:"
  for ac_dir in /usr/ucb /usr/ccs/bin $PATH /bin; do
    test -z "$ac_dir" && ac_dir=.
    if test -f $ac_dir/nm; then
      # Check to see if the nm accepts a BSD-compat flag.
      # Adding the 'sed 1q' prevents false positives on HP-UX, which says:
      #   nm: unknown option "B" ignored
      if ($ac_dir/nm -B /dev/null 2>&1 | sed '1q'; exit 0) | egrep /dev/null >/dev/null; then
        NM="$ac_dir/nm -B"
      elif ($ac_dir/nm -p /dev/null 2>&1 | sed '1q'; exit 0) | egrep /dev/null >/dev/null; then
        NM="$ac_dir/nm -p"
 else
        NM="$ac_dir/nm"
 fi
      break
```

```
    fi
  done
  IFS="$ac_save_ifs"
  test -z "$NM" && NM=nm
  ;;
 esac
 echo "$ac_t$NM" 1>&6
fi

# Check for command to grab the raw symbol name followed by C symbol from nm.
echo $ac_n "checking command to parse $NM output... $ac_c" 1>&6

# These are sane defaults that work on at least a few old systems.
# [They come from Ultrix.  What could be older than Ultrix?!! ;)]

# Character class describing NM global symbol codes.
symcode='[BCDEGRSTU]'

# Regexp to match symbols that can be accessed directly from C.
sympat='\([_A-Za-z][_A-Za-z0-9]*\)'

# Transform the above into a raw symbol and a C symbol.
symxfrm='\1 \1'

# Define system-specific variables.
case "$host_os" in
aix*)
 symcode='[BCDTU]'
 ;;
irix*)
 # Cannot use undefined symbols on IRIX because inlined functions mess us up.
 symcode='[BCDEGRST]'
 ;;
solaris2*)
 symcode='[BDTU]'
 ;;
esac

# If we're using GNU nm, then use its standard symbol codes.
if $NM -V 2>&1 | egrep '(GNU|with BFD)' > /dev/null; then
 symcode='[ABCDGISTUW]'
fi

# Write the raw and C identifiers.
global_symbol_pipe="sed -n -e 's/^.* $symcode $sympat$/$symxfrm/p'"

# Check to see that the pipe works correctly.
pipe_works=no
```

```
$rm conftest*
cat > conftest.c <<EOF
#ifdef __cplusplus
extern "C" {
#endif
char nm_test_var;
void nm_test_func(){}
#ifdef __cplusplus
}
#endif
main(){nm_test_var='a';nm_test_func();return(0);}
EOF

echo "$progname:971: checking if global_symbol_pipe works" >&5
if { (eval echo $progname:972: \"$ac_compile\") 1>&5; (eval $ac_compile) 2>&5; } && test -s conftest.o; then
 # Now try to grab the symbols.
 nlist=conftest.nm
 if { echo "$progname:975: eval \"$NM conftest.o | $global_symbol_pipe > $nlist\"" >&5; eval "$NM conftest.o |
$global_symbol_pipe > $nlist 2>&5"; } && test -s "$nlist"; then

   # Try sorting and uniquifying the output.
   if sort "$nlist" | uniq > "$nlist"T; then
     mv -f "$nlist"T "$nlist"
     wcout='wc "$nlist" 2>/dev/null'
     count='$echo "X$wcout" | $Xsed -e 's/^[  ]*\([0-9][0-9]*\).*$/\1/'
     (test "$count" -ge 0) 2>/dev/null || count=-1
   else
     rm -f "$nlist"T
     count=-1
   fi

   # Make sure that we snagged all the symbols we need.
   if egrep ' nm_test_var$' "$nlist" >/dev/null; then
     if egrep ' nm_test_func$' "$nlist" >/dev/null; then
  cat <<EOF > conftest.c
#ifdef __cplusplus
extern "C" {
#endif

EOF
       # Now generate the symbol file.
       sed 's/^.* \(.*\)$/extern char \1;/' < "$nlist" >> conftest.c

  cat <<EOF >> conftest.c
#if defined (__STDC__) && __STDC__
# define __ptr_t void *
#else
# define __ptr_t char *
```

```
#endif

/* The number of symbols in dld_preloaded_symbols, -1 if unsorted. */
int dld_preloaded_symbol_count = $count;

/* The mapping between symbol names and symbols. */
struct {
 char *name;
 __ptr_t address;
}
dld_preloaded_symbols[] =
{
EOF
      sed 's/^\(.*\) \(.*\)$/  {"\1", (__ptr_t) \&\2},/' < "$nlist" >> conftest.c
      cat <<\EOF >> conftest.c
 {0, (__ptr_t) 0}
};

#ifdef __cplusplus
}
#endif
EOF
      # Now try linking the two files.
      mv conftest.o conftestm.o
 save_LIBS="$LIBS"
 save_CFLAGS="$CFLAGS"
      LIBS='conftestm.o'
 CFLAGS="$CFLAGS$no_builtin_flag"
      if { (eval echo $progname:1033: \"$ac_link\") 1>&5; (eval $ac_link) 2>&5; } && test -s conftest; then
        pipe_works=yes
      else
        echo "$progname: failed program was:" >&5
        cat conftest.c >&5
      fi
      LIBS="$save_LIBS"
    else
      echo "cannot find nm_test_func in $nlist" >&5
    fi
  else
    echo "cannot find nm_test_var in $nlist" >&5
  fi
 else
  echo "cannot run $global_symbol_pipe" >&5
 fi
else
 echo "$progname: failed program was:" >&5
 cat conftest.c >&5
fi
```

```
$rm conftest*

# Do not use the global_symbol_pipe unless it works.
echo "$ac_t$pipe_works" 1>&6
test "$pipe_works" = yes || global_symbol_pipe=

# Check hardcoding attributes.
echo $ac_n "checking how to hardcode library paths into programs... $ac_c" 1>&6
hardcode_action=
if test -n "$hardcode_libdir_flag_spec" || \
  test -n "$runpath_var"; then

 # We can hardcode non-existant directories.
 if test "$hardcode_direct" != no && \
    test "$hardcode_minus_L" != no && \
    test "$hardcode_shlibpath_var" != no; then

   # Linking always hardcodes the temporary library directory.
   hardcode_action=relink
 else
   # We can link without hardcoding, and we can hardcode nonexisting dirs.
   hardcode_action=immediate
 fi
elif test "$hardcode_direct" != yes && \
    test "$hardcode_minus_L" != yes && \
    test "$hardcode_shlibpath_var" != yes; then
 # We cannot hardcode anything.
 hardcode_action=unsupported
else
 # We can only hardcode existing directories.
 hardcode_action=relink
fi
echo "$ac_t$hardcode_action" 1>&6
test "$hardcode_action" = unsupported && can_build_shared=no


reload_flag=
reload_cmds='$LD$reload_flag -o $output$reload_objs'
echo $ac_n "checking for $LD option to reload object files... $ac_c" 1>&6
# PORTME Some linker may need a different reload flag.
reload_flag='-r'
echo "$ac_t$reload_flag"
test -n "$reload_flag" && reload_flag=" $reload_flag"

# PORTME Fill in your ld.so characteristics
library_names_spec=
libname_spec='lib$name'
soname_spec=
```

```
postinstall_cmds=
postuninstall_cmds=
finish_cmds=
finish_eval=
shlibpath_var=
version_type=none
dynamic_linker="$host_os ld.so"

echo $ac_n "checking dynamic linker characteristics... $ac_c" 1>&6
case "$host_os" in
aix3* | aix4*)
 version_type=linux
 library_names_spec='${libname}${release}.so.$versuffix $libname.a'
 shlibpath_var=LIBPATH

 # AIX has no versioning support, so we append a major version to the name.
 soname_spec='${libname}${release}.so.$major'
 ;;

amigaos*)
 library_names_spec='$libname.ixlibrary $libname.a'
 # Create ${libname}_ixlibrary.a entries in /sys/libs.
 finish_eval='for lib in `ls $libdir/*.ixlibrary 2>/dev/null`; do libname=`echo "X$lib" | $Xsed -e
\"s%^.*/\([^/]*\)\.ixlibrary$%\1%\"`; test $rm /sys/libs/${libname}_ixlibrary.a; $show "(cd /sys/libs && $LN_S
$lib ${libname}_ixlibrary.a)"; (cd /sys/libs && $LN_S $lib ${libname}_ixlibrary.a) || exit 1; done'
 ;;

freebsd2* | freebsd3*)
 version_type=sunos
 library_names_spec='${libname}${release}.so.$versuffix $libname.so'
 finish_cmds='PATH="$PATH:/sbin" ldconfig -m $libdir'
 shlibpath_var=LD_LIBRARY_PATH
 ;;

gnu*)
 version_type=sunos
 library_names_spec='${libname}${release}.so.$versuffix'
 shlibpath_var=LD_LIBRARY_PATH
 ;;

hpux9* | hpux10*)
 # Give a soname corresponding to the major version so that dld.sl refuses to
 # link against other versions.
 dynamic_linker="$host_os dld.sl"
 version_type=sunos
 shlibpath_var=SHLIB_PATH
 library_names_spec='${libname}${release}.sl.$versuffix ${libname}${release}.sl.$major $libname.sl'
 soname_spec='${libname}${release}.sl.$major'
```

```
 # HP-UX runs *really* slowly unless shared libraries are mode 555.
 postinstall_cmds='chmod 555 $lib'
 ;;

irix5* | irix6*)
 version_type=osf
 soname_spec='${libname}${release}.so'
 library_names_spec='${libname}${release}.so.$versuffix $libname.so'
 shlibpath_var=LD_LIBRARY_PATH
 ;;

# No shared lib support for Linux oldld, aout, or coff.
linux-gnuoldld* | linux-gnuaout* | linux-gnucoff*)
 dynamic_linker=no
 ;;

# This must be Linux ELF.
linux-gnu*)
 version_type=linux
 library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
 soname_spec='${libname}${release}.so.$major'
 finish_cmds='PATH="$PATH:/sbin" ldconfig -n $libdir'
 shlibpath_var=LD_LIBRARY_PATH

 if test -f /lib/ld.so.1; then
  dynamic_linker='GNU ld.so'
 else
  # Only the GNU ld.so supports shared libraries on MkLinux.
  case "$host_cpu" in
  powerpc*) dynamic_linker=no ;;
  *) dynamic_linker='Linux ld.so' ;;
  esac
 fi
 ;;

netbsd* | openbsd*)
 version_type=sunos
 library_names_spec='${libname}${release}.so.$versuffix'
 finish_cmds='PATH="$PATH:/sbin" ldconfig -m $libdir'
 shlibpath_var=LD_LIBRARY_PATH
 ;;

os2*)
 libname_spec='$name'
 library_names_spec='$libname.dll $libname.a'
 dynamic_linker='OS/2 ld.exe'
 shlibpath_var=LIBPATH
 ;;
```

```
osf3* | osf4*)
 version_type=osf
 soname_spec='${libname}${release}.so'
 library_names_spec='${libname}${release}.so.$versuffix $libname.so'
 shlibpath_var=LD_LIBRARY_PATH
 ;;

sco3.2v5*)
 version_type=osf
 soname_spec='${libname}${release}.so.$major'
 library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
 shlibpath_var=LD_LIBRARY_PATH
 ;;

solaris2*)
 version_type=linux
 library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
 soname_spec='${libname}${release}.so.$major'
 shlibpath_var=LD_LIBRARY_PATH
 ;;

sunos4*)
 version_type=sunos
 library_names_spec='${libname}${release}.so.$versuffix'
 finish_cmds='PATH="$PATH:/usr/etc" ldconfig $libdir'
 shlibpath_var=LD_LIBRARY_PATH
 ;;

sysv4.2uw2*)
 version_type=linux
 library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
 soname_spec='${libname}${release}.so.$major'
 shlibpath_var=LD_LIBRARY_PATH
 ;;

uts4*)
 version_type=linux
 library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
 soname_spec='${libname}${release}.so.$major'
 shlibpath_var=LD_LIBRARY_PATH
 ;;

*)
 dynamic_linker=no
 ;;
esac
echo "$ac_t$dynamic_linker"
```

```
test "$dynamic_linker" = no && can_build_shared=no

# Report the final consequences.
echo "checking if libtool supports shared libraries... $can_build_shared" 1>&6

echo $ac_n "checking whether to build shared libraries... $ac_c" 1>&6
test "$can_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case "$host_os" in
aix*)
 test "$enable_shared" = yes && enable_static=no
 if test -n "$RANLIB"; then
   archive_cmds="$archive_cmds;\$RANLIB \$lib"
   postinstall_cmds='$RANLIB $lib'
 fi
 ;;
esac

echo "$ac_t$enable_shared" 1>&6

# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes

echo "checking whether to build static libraries... $enable_static" 1>&6

echo $ac_n "checking for objdir... $ac_c" 1>&6
rm -f .libs 2>/dev/null
mkdir .libs 2>/dev/null
if test -d .libs; then
 objdir=.libs
else
 # MS-DOS does not allow filenames that begin with a dot.
 objdir=_libs
fi
rmdir .libs 2>/dev/null
echo "$ac_t$objdir" 1>&6

# Copy echo and quote the copy, instead of the original, because it is
# used later.
ltecho="$echo"

# Now quote all the things that may contain metacharacters.
for var in ltecho old_CC old_CFLAGS old_CPPFLAGS old_LD old_NM old_RANLIB \
 old_LN_S AR CC LD LN_S NM reload_flag reload_cmds wl pic_flag \
 link_static_flag no_builtin_flag export_dynamic_flag_spec \
 libname_spec library_names_spec soname_spec RANLIB \
```

```
 old_archive_cmds old_archive_from_new_cmds old_postinstall_cmds \
 old_postuninstall_cmds archive_cmds postinstall_cmds postuninstall_cmds \
 allow_undefined_flag no_undefined_flag \
 finish_cmds finish_eval global_symbol_pipe \
 hardcode_libdir_flag_spec hardcode_libdir_separator; do

 case "$var" in
 reload_cmds | old_archive_cmds | old_archive_from_new_cmds | \
 old_postinstall_cmds | old_postuninstall_cmds | archive_cmds | \
 postinstall_cmds | postuninstall_cmds | finish_cmds)
   # Double-quote double-evaled strings.
   eval "$var=\"\$echo \"X\$$var\" | \$Xsed -e \"\$double_quote_subst\" -e \"\$sed_quote_subst\"\"
   ;;
 *)
   eval "$var=\"\$echo \"X\$$var\" | \$Xsed -e \"\$sed_quote_subst\"\"
   ;;
 esac
done

ofile=libtool
trap "$rm $ofile; exit 1" 1 2 15
echo creating $ofile
$rm $ofile
cat <<EOF > $ofile
#! /bin/sh

# libtool - Provide generalized library-building support services.
# Generated automatically by $PROGRAM - GNU $PACKAGE $VERSION
# NOTE: Changes made to this file will be lost: look at ltconfig or ltmain.sh.
#
# Copyright (C) 1996-1998 Free Software Foundation, Inc.
# Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
# General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
#
# As a special exception to the GNU General Public License, if you
```

```
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# This program was configured as follows,
# on host '(hostname || uname -n) 2>/dev/null | sed 1q':
#
# CC="$old_CC" CFLAGS="$old_CFLAGS" CPPFLAGS="$old_CPPFLAGS" \\
# LD="$old_LD" NM="$old_NM" RANLIB="$old_RANLIB" LN_S="$old_LN_S" \\
#   $0$ltconfig_args
#
# Compiler and other test output produced by $progname, useful for
# debugging $progname, is in ./config.log if it exists.

# Sed that helps us avoid accidentally triggering echo(1) options like -n.
Xsed="sed -e s/^X//"

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
if test "\${CDPATH+set}" = set; then CDPATH=; export CDPATH; fi

# An echo program that does not interpret backslashes.
echo="$ltecho"

# The version of $progname that generated this script.
LTCONFIG_VERSION="$VERSION"

# Shell to use when invoking shell scripts.
SHELL=${CONFIG_SHELL-/bin/sh}

# Whether or not to build libtool libraries.
build_libtool_libs=$enable_shared

# Whether or not to build old-style libraries.
build_old_libs=$enable_static

# The host system.
host_alias="$host_alias"
host="$host"

# The archiver.
AR="$AR"

# The default C compiler.
CC="$CC"

# The linker used to build libraries.
LD="$LD"
```

```
# Whether we need hard or soft links.
LN_S="$LN_S"

# A BSD-compatible nm program.
NM="$NM"

# The name of the directory that contains temporary libtool files.
objdir="$objdir"

# How to create reloadable object files.
reload_flag="$reload_flag"
reload_cmds="$reload_cmds"

# How to pass a linker flag through the compiler.
wl="$wl"

# Additional compiler flags for building library objects.
pic_flag="$pic_flag"

# Compiler flag to prevent dynamic linking.
link_static_flag="$link_static_flag"

# Compiler flag to turn off builtin functions.
no_builtin_flag="$no_builtin_flag"

# Compiler flag to allow reflexive dlopens.
export_dynamic_flag_spec="$export_dynamic_flag_spec"

# Library versioning type.
version_type=$version_type

# Format of library name prefix.
libname_spec="$libname_spec"

# List of archive names.  First name is the real one, the rest are links.
# The last name is the one that the linker finds with -lNAME.
library_names_spec="$library_names_spec"

# The coded name of the library, if different from the real name.
soname_spec="$soname_spec"

# Commands used to build and install an old-style archive.
RANLIB="$RANLIB"
old_archive_cmds="$old_archive_cmds"
old_postinstall_cmds="$old_postinstall_cmds"
old_postuninstall_cmds="$old_postuninstall_cmds"
```

```
# Create an old-style archive from a shared archive.
old_archive_from_new_cmds="$old_archive_from_new_cmds"

# Commands used to build and install a shared archive.
archive_cmds="$archive_cmds"
postinstall_cmds="$postinstall_cmds"
postuninstall_cmds="$postuninstall_cmds"

# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag="$allow_undefined_flag"

# Flag that forces no undefined symbols.
no_undefined_flag="$no_undefined_flag"

# Commands used to finish a libtool library installation in a directory.
finish_cmds="$finish_cmds"

# Same as above, but a single script fragment to be evaled but not shown.
finish_eval="$finish_eval"

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe="$global_symbol_pipe"

# This is the shared library runtime path variable.
runpath_var=$runpath_var

# This is the shared library path variable.
shlibpath_var=$shlibpath_var

# How to hardcode a shared library path into an executable.
hardcode_action=$hardcode_action

# Flag to hardcode \$libdir into a binary during linking.
# This must work even if \$libdir does not exist.
hardcode_libdir_flag_spec="$hardcode_libdir_flag_spec"

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator="$hardcode_libdir_separator"

# Set to yes if using DIR/libNAME.so during linking hardcodes DIR into the
# resulting binary.
hardcode_direct=$hardcode_direct

# Set to yes if using the -LDIR flag during linking hardcodes DIR into the
# resulting binary.
hardcode_minus_L=$hardcode_minus_L

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
```

```
# the resulting binary.
hardcode_shlibpath_var=$hardcode_shlibpath_var

EOF

case "$host_os" in
aix3*)
 cat <<\EOF >> $ofile
# AIX sometimes has problems with the GCC collect2 program.  For some
# reason, if we set the COLLECT_NAMES environment variable, the problems
# vanish in a puff of smoke.
if test "${COLLECT_NAMES+set}" != set; then
 COLLECT_NAMES=
 export COLLECT_NAMES
fi

EOF
 ;;
esac

# Append the ltmain.sh script.
cat "$ltmain" >> $ofile || (rm -f $ofile; exit 1)

chmod +x $ofile
exit 0

# Local Variables:
# mode:shell-script
# sh-indentation:2
# End:
Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
```

2.181 JSON 2.16

2.181.1 Available under license :

```
--- #YAML:1.0
name:               JSON
version:            2.16
abstract:           JSON (JavaScript Object Notation) encoder/decoder
author:
  - Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>
license:            perl
distribution_type:  module
configure_requires:
  ExtUtils::MakeMaker:  0
```

```
requires:
  Test::More:  0
no_index:
  directory:
    - t
    - inc
generated_by:       ExtUtils::MakeMaker version 6.48
meta-spec:
  url:      http://module-build.sourceforge.net/META-spec-v1.4.html
  version:  1.4
JSON version 2.16
==================

INSTALLATION

To install this module type the following:

 perl Makefile.PL
 make
 make test
 make install

NAME
  JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS
   use JSON; # imports encode_json, decode_json, to_json and from_json.

   $json_text   = to_json($perl_scalar);
   $perl_scalar = from_json($json_text);

   # option-acceptable
   $json_text   = to_json($perl_scalar, {ascii => 1});
   $perl_scalar = from_json($json_text, {utf8 => 1});

   # OOP
   $json = new JSON;

   $json_text   = $json->encode($perl_scalar);
   $perl_scalar = $json->decode($json_text);

   # pretty-printing
   $json_text = $json->pretty->encode($perl_scalar);

   # simple interface
   $utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
   $perl_hash_or_arrayref  = decode_json $utf8_encoded_json_text;
```

```
  # If you want to use PP only support features, call with '-support_by_pp'
  # When XS unsupported feature is enable, using PP de/encode.

  use JSON -support_by_pp;
```

VERSION

```
    2.16
```

This version is compatible with JSON::XS 2.26 and later.

DESCRIPTION

```
  ************************** CAUTION ********************************
  * This is 'JSON module version 2' and there are many differences  *
  * to version 1.xx                                                 *
  * Please check your applications useing old version.              *
  *   See to 'INCOMPATIBLE CHANGES TO OLD VERSION'                  *
  *******************************************************************
```

JSON (JavaScript Object Notation) is a simple data format. See to <http://www.json.org/> and "RFC4627"(<http://www.ietf.org/rfc/rfc4627.txt>).

This module converts Perl data structures to JSON and vice versa using either JSON::XS or JSON::PP.

JSON::XS is the fastest and most proper JSON module on CPAN which must be compiled and installed in your environment. JSON::PP is a pure-Perl module which is bundled in this distribution and has a strong compatibility to JSON::XS.

This module try to use JSON::XS by default and fail to it, use JSON::PP instead. So its features completely depend on JSON::XS or JSON::PP.

See to "BACKEND MODULE DECISION".

To distinguish the module name 'JSON' and the format type JSON, the former is quoted by C<> (its results vary with your using media), and the latter is left just as it is.

Module name : "JSON"

Format type : JSON

FEATURES

* correct unicode handling

  This module (i.e. backend modules) knows how to handle Unicode, documents how and when it does so, and even documents what "correct" means.

Even though there are limitations, this feature is available since Perl version 5.6.

JSON::XS requires Perl 5.8.2 (but works correctly in 5.8.8 or later), so in older versions "JSON" sholud call JSON::PP as the backend which can be used since Perl 5.005.

With Perl 5.8.x JSON::PP works, but from 5.8.0 to 5.8.2, because of a Perl side problem, JSON::PP works slower in the versions. And in 5.005, the Unicode handling is not available. See to "UNICODE HANDLING ON PERLS" in JSON::PP for more information.

See also to "A FEW NOTES ON UNICODE AND PERL" in JSON::XS and "ENCODING/CODESET_FLAG_NOTES" in JSON::XS.

* round-trip integrity
  When you serialise a perl data structure using only data types supported by JSON, the deserialised data structure is identical on the Perl level. (e.g. the string "2.0" doesn't suddenly become "2" just because it looks like a number). There minor *are* exceptions to this, read the MAPPING section below to learn about those.

* strict checking of JSON correctness
  There is no guessing, no generating of illegal JSON texts by default, and only JSON is accepted as input by default (the latter is a security feature).

  See to "FEATURES" in JSON::XS and "FEATURES" in JSON::PP.

* fast
  This module returns a JSON::XS object itself if avaliable. Compared to other JSON modules and other serialisers such as Storable, JSON::XS usually compares favourably in terms of speed, too.

  If not avaliable, "JSON" returns a JSON::PP object instead of JSON::XS and it is very slow as pure-Perl.

* simple to use
  This module has both a simple functional interface as well as an object oriented interface interface.

* reasonably versatile output formats
  You can choose between the most compact guaranteed-single-line format possible (nice for simple line-based protocols), a pure-ASCII format (for when your transport is not 8-bit clean, still supports the whole Unicode range), or a pretty-printed format (for when you want to read that stuff). Or you can combine those features in

whatever way you like.

FUNCTIONAL INTERFACE

Some documents are copied and modified from "FUNCTIONAL INTERFACE" in JSON::XS. "to_json" and "from_json" are additional functions.

to_json

```
$json_text = to_json($perl_scalar)
```

Converts the given Perl data structure to a json string.

This function call is functionally identical to:

```
$json_text = JSON->new->encode($perl_scalar)
```

Takes a hash reference as the second.

```
$json_text = to_json($perl_scalar, $flag_hashref)
```

So,

```
$json_text = encode_json($perl_scalar, {utf8 => 1, pretty => 1})
```

equivalent to:

```
$json_text = JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

from_json

```
$perl_scalar = from_json($json_text)
```

The opposite of "to_json": expects a json string and tries to parse it, returning the resulting reference.

This function call is functionally identical to:

```
$perl_scalar = JSON->decode($json_text)
```

Takes a hash reference as the second.

```
$perl_scalar = from_json($json_text, $flag_hashref)
```

So,

```
$perl_scalar = from_json($json_text, {utf8 => 1})
```

equivalent to:

```
$perl_scalar = JSON->new->utf8(1)->decode($json_text)
```

encode_json
    $json_text = encode_json $perl_scalar

  Converts the given Perl data structure to a UTF-8 encoded, binary
  string.

  This function call is functionally identical to:

    $json_text = JSON->new->utf8->encode($perl_scalar)

decode_json
    $perl_scalar = decode_json $json_text

  The opposite of "encode_json": expects an UTF-8 (binary) string and
  tries to parse that as an UTF-8 encoded JSON text, returning the
  resulting reference.

  This function call is functionally identical to:

    $perl_scalar = JSON->new->utf8->decode($json_text)

JSON::is_bool
    $is_boolean = JSON::is_bool($scalar)

  Returns true if the passed scalar represents either JSON::true or
  JSON::false, two constants that act like 1 and 0 respectively and are
  also used to represent JSON "true" and "false" in Perl strings.

JSON::true
  Returns JSON true value which is blessed object. It "isa" JSON::Boolean
  object.

JSON::false
  Returns JSON false value which is blessed object. It "isa" JSON::Boolean
  object.

JSON::null
  Returns "undef".

  See MAPPING, below, for more information on how JSON values are mapped
  to Perl.

COMMON OBJECT-ORIENTED INTERFACE
new
    $json = new JSON

  Returns a new "JSON" object inherited from either JSON::XS or JSON::PP

that can be used to de/encode JSON strings.

All boolean flags described below are by default *disabled*.

The mutators for flags all return the JSON object again and thus calls can be chained:

```
my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}
```

ascii

```
$json = $json->ascii([$enable])

$enabled = $json->get_ascii
```

If $enable is true (or missing), then the encode method will not generate characters outside the code range 0..127. Any Unicode characters outside that range will be escaped using either a single \uXXXX or a double \uHHHH\uLLLLL escape sequence, as per RFC4627.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

This feature depends on the used Perl version and environment.

See to "UNICODE HANDLING ON PERLS" in JSON::PP if the backend is PP.

```
JSON->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\udc01"]
```

latin1

```
$json = $json->latin1([$enable])

$enabled = $json->get_latin1
```

If $enable is true (or missing), then the encode method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags.

```
JSON->new->latin1->encode (["\x{89}\x{abc}"]
=> ["\x{89}\\u0abc"]    # (perl syntax, U+abc escaped, U+89 not)
```

utf8

```
$json = $json->utf8([$enable])
```

$enabled = $json->get_utf8

If $enable is true (or missing), then the encode method will encode the JSON result into UTF-8, as required by many protocols, while the decode method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bytewise/binary I/O.

In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If $enable is false, then the encode method will return the JSON string as a (non-encoded) Unicode string, while decode expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$jsontext = encode "UTF-16BE", JSON::XS->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
use Encode;
$object = JSON::XS->new->decode (decode "UTF-32LE", $jsontext);
```

See to "UNICODE HANDLING ON PERLS" in JSON::PP if the backend is PP.

pretty
$json = $json->pretty([$enable])

This enables (or disables) all of the "indent", "space_before" and "space_after" (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

Equivalent to:

```
$json->indent->space_before->space_after
```

The indent space length is three and JSON::XS cannot change the indent space length.

indent
$json = $json->indent([$enable])

$enabled = $json->get_indent

If $enable is true (or missing), then the "encode" method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, identing them properly.

If $enable is false, no newlines or indenting will be produced, and the resulting JSON text is guarenteed not to contain any "newlines".

This setting has no effect when decoding JSON texts.

The indent space length is three. With JSON::PP, you can also access "indent_length" to change indent space length.

space_before

$json = $json->space_before([$enable])

$enabled = $json->get_space_before

If $enable is true (or missing), then the "encode" method will add an extra optional space before the ":" separating keys from values in JSON objects.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before enabled, space_after and indent disabled:

```
{"key" :"value"}
```

space_after

$json = $json->space_after([$enable])

$enabled = $json->get_space_after

If $enable is true (or missing), then the "encode" method will add an extra optional space after the ":" separating keys from values in JSON objects and extra whitespace after the "," separating key-value pairs and array members.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

```
{"key": "value"}
```

relaxed
    $json = $json->relaxed([$enable])

    $enabled = $json->get_relaxed

 If $enable is true (or missing), then "decode" will accept some
 extensions to normal JSON syntax (see below). "encode" will not be
 affected in anyway. *Be aware that this option makes you accept invalid
 JSON texts as if they were valid!*. I suggest only to use this option to
 parse application-specific files written by humans (configuration files,
 resource files etc.)

 If $enable is false (the default), then "decode" will only accept valid
 JSON texts.

 Currently accepted extensions are:

 * list items can have an end-comma
    JSON *separates* array elements and key-value pairs with commas.
    This can be annoying if you write JSON texts manually and want to be
    able to quickly append elements, so this extension accepts comma at
    the end of such items not just between them:

      [
        1,
        2, <- this comma not normally allowed
      ]
      {
        "k1": "v1",
        "k2": "v2", <- this comma not normally allowed
      }

 * shell-style '#'-comments
    Whenever JSON allows whitespace, shell-style comments are
    additionally allowed. They are terminated by the first
    carriage-return or line-feed character, after which more white-space
    and comments are allowed.

      [
        1, # this comment not allowed in JSON
          # neither this one...
      ]

canonical
    $json = $json->canonical([$enable])

    $enabled = $json->get_canonical

If $enable is true (or missing), then the "encode" method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If $enable is false, then the "encode" method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

allow_nonref

$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

If $enable is true (or missing), then the "encode" method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, "decode" will accept those JSON values instead of croaking.

If $enable is false, then the "encode" method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, "decode" will croak if given something that is not a JSON object or array.

JSON->new->allow_nonref->encode ("Hello, World!")
=> "Hello, World!"

allow_unknown

$json = $json->allow_unknown ([$enable])

$enabled = $json->get_allow_unknown

If $enable is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled separately by c<allow_nonref>.

If $enable is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

allow_blessed

$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed

If $enable is true (or missing), then the "encode" method will not barf when it encounters a blessed reference. Instead, the value of the convert_blessed option will decide whether "null" ("convert_blessed" disabled or no "TO_JSON" method found) or a representation of the object ("convert_blessed" enabled and "TO_JSON" method found) is being encoded. Has no effect on "decode".

If $enable is false (the default), then "encode" will throw an exception when it encounters a blessed object.

convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

If $enable is true (or missing), then "encode", upon encountering a blessed object, will check for the availability of the "TO_JSON" method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object. If no "TO_JSON" method is found, the value of "allow_blessed" will decide what to do.

The "TO_JSON" method may safely call die if it wants. If "TO_JSON" returns other blessed objects, those will be handled in the same way. "TO_JSON" must take care of not causing an endless recursion cycle (== crash) in this case. The name of "TO_JSON" was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with the "to_json" function or method.

This setting does not yet influence "decode" in any way.

If $enable is false, then the "allow_blessed" setting will decide what to do when a blessed object is found.

convert_blessed_universally mode

If use "JSON" with "-convert_blessed_universally", the "UNIVERSAL::TO_JSON" subroutine is defined as the below code:

*UNIVERSAL::TO_JSON = sub {

```
        my $b_obj = B::svref_2object( $_[0] );
        return    $b_obj->isa('B::HV') ? { %{ $_[0] } }
                : $b_obj->isa('B::AV') ? [ @{ $_[0] } ]
                : undef
                ;
    }
```

This will cause that "encode" method converts simple blessed objects into JSON objects as non-blessed object.

```
  JSON -convert_blessed_universally;
  $json->allow_blessed->convert_blessed->encode( $blessed_object )
```

This feature is experimental and may be removed in the future.

filter_json_object

```
$json = $json->filter_json_object([$coderef])
```

When $coderef is specified, it will be called from "decode" each time it decodes a JSON object. The only argument passed to the coderef is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: *not* "undef", which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When $coderef is omitted or undefined, any existing callback will be removed and "decode" will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```
  my $js = JSON->new->filter_json_object (sub { 5 });
  # returns [5]
  $js->decode ('[{}]'); # the given subroutine takes a hash reference.
  # throw an exception because allow_nonref is not enabled
  # so a lone 5 is not allowed.
  $js->decode ('{"a":1, "b":2}');
```

filter_json_single_key_object

```
 $json = $json->filter_json_single_key_object($key [=> $coderef])
```

Works remotely similar to "filter_json_object", but is only called for JSON objects having a single key named $key.

This $coderef is called before the one specified via "filter_json_object", if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the

data structure. If it returns nothing (not even "undef" but the empty list), the callback from "filter_json_object" will be called next, as if no single-key callback were specified.

If $coderef is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the "filter_json_object" one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "__class_whatever__", or "$__dollars_are_rarely_used__$" or "}ugly_brace_placement", or even things like "__class_md5sum(classname)__", to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form "{ "__widget__" => <id> }" into the corresponding $WIDGET{<id>} object:

```
  # return whatever is in $WIDGET{5}:
  JSON
    ->new
    ->filter_json_single_key_object (__widget__ => sub {
        $WIDGET{ $_[0] }
      })
    ->decode ('{"__widget__": 5')

  # this can be used with a TO_JSON method in some "widget" class
  # for serialisation to json:
  sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
      $self->{id} = ..get..some..id..;
      $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
  }
```

shrink

```
   $json = $json->shrink([$enable])

   $enabled = $json->get_shrink
```

With JSON::XS, this flag resizes strings generated by either "encode" or "decode" to their minimum size possible. This can save memory when your JSON texts are either very very long or you have many short strings. It will also try to downgrade any strings to octet-form if possible: perl stores strings internally either in an encoding called UTF-X or in octet-form. The latter cannot store everything but uses less space in general (and some buggy Perl or C code might even rely on that internal representation being used).

With JSON::PP, it is noop about resizing strings but tries "utf8::downgrade" to the returned string by "encode". See to utf8.

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS and "METHODS" in JSON::PP.

max_depth

```
$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default 512) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of "{" or "[" characters without their matching closing parenthesis crossed to reach a given character in a string.

If no argument is given, the highest possible setting will be used, which is rarely useful.

Note that nesting is implemented by recursion in C. The default value has been chosen to be as large as typical operating systems allow without crashing. (JSON::XS)

With JSON::PP as the backend, when a large value (100 or more) was set and it de/encodes a deep nested object/text, it may raise a warning 'Deep recursion on subroutin' at the perl runtime phase.

See "SECURITY CONSIDERATIONS" in JSON::XS for more info on why this is useful.

max_size

```
$json = $json->max_size([$maximum_string_size])
```

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is 0, meaning no limit. When "decode" is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on "encode" (yet).

If no argument is given, the limit check will be deactivated (same as when 0 is specified).

See "SECURITY CONSIDERATIONS" in JSON::XS, below, for more info on why this is useful.

encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl data structure (a simple scalar or a reference to a hash or array) to its JSON representation. Simple scalars will be converted into JSON string or number sequences, while references to arrays become JSON arrays and references to hashes become JSON objects. Undefined Perl values (e.g. "undef") become JSON "null" values. References to the integers 0 and 1 are converted into "true" and "false".

decode

$perl_scalar = $json->decode($json_text)

The opposite of "encode": expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

JSON numbers and strings become simple Perl scalars. JSON arrays become Perl arrayrefs and JSON objects become Perl hashrefs. "true" becomes 1 ("JSON::true"), "false" becomes 0 ("JSON::false") and "null" becomes "undef".

decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the "decode" method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

JSON->new->decode_prefix ("[1] the tail")
=> ([], 3)

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS

property
$boolean = $json->property($property_name)

Returns a boolean value about above some properties.

The available properties are "ascii", "latin1", "utf8",
"indent","space_before", "space_after", "relaxed", "canonical",
"allow_nonref", "allow_unknown", "allow_blessed", "convert_blessed",
"shrink", "max_depth" and "max_size".

$boolean = $json->property('utf8');
=> 0
$json->utf8;
$boolean = $json->property('utf8');
=> 1

Sets the propery with a given boolean value.

$json = $json->property($property_name => $boolean);

With no argumnt, it returns all the above properties as a hash
reference.

$flag_hashref = $json->property();

INCREMENTAL PARSING
In JSON::XS 2.2, incremental parsing feature of JSON texts was
implemented. Please check to "INCREMENTAL PARSING" in JSON::XS.

[void, scalar or list context] = $json->incr_parse ([$string])
This is the central parsing function. It can both append new text
and extract objects from the stream accumulated so far (both of
these functions are optional).

If $string is given, then this string is appended to the already
existing JSON fragment stored in the $json object.

After that, if the function is called in void context, it will
simply return without doing anything further. This can be used to
add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to
extract exactly *one* JSON object. If that is successful, it will
return this object, otherwise it will return "undef". If there is a
parse error, this method will croak just as "decode" would do (one
can then use "incr_skip" to skip the errornous part). This is the
most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

$lvalue_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This *only* works when a preceding call to "incr_parse" in *scalar context* successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it *will* fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

In Perl 5.005, "lvalue" attribute is not available. You must write codes like the below:

```
$string = $json->incr_text;
$string =~ s/\s*,\s*//;
$json->incr_text( $string );
```

$json->incr_skip

This will reset the state of the incremental parser and will remove the parsed text from the input buffer. This is useful after "incr_parse" died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

$json->incr_reset

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want ot repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

JSON::PP SUPPORT METHODS

The below methods are JSON::PP own methods, so when "JSON" works with JSON::PP (i.e. the created object is a JSON::PP object), available. See

to "JSON::PP OWN METHODS" in JSON::PP in detail.

If you use "JSON" with additonal "-support_by_pp", some methods are available even with JSON::XS. See to "USE PP FEATURES EVEN THOUGH XS BACKEND".

```
BEING { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

use JSON -support_by_pp;

my $json = new JSON;
$json->allow_nonref->escape_slash->encode("/");

# functional interfaces too.
print to_json(["/"], {escape_slash => 1});
print from_json('["foo"]', {utf8 => 1});
```

If you do not want to all functions but "-support_by_pp", use "-no_export".

```
use JSON -support_by_pp, -no_export;
# functional interfaces are not exported.
```

allow_singlequote

```
$json = $json->allow_singlequote([$enable])
```

If $enable is true (or missing), then "decode" will accept any JSON strings quoted by single quotations that are invalid JSON format.

```
$json->allow_singlequote->decode({"foo":'bar'});
$json->allow_singlequote->decode({'foo':"bar"});
$json->allow_singlequote->decode({'foo':'bar'});
```

As same as the "relaxed" option, this option may be used to parse application-specific files written by humans.

allow_barekey

```
$json = $json->allow_barekey([$enable])
```

If $enable is true (or missing), then "decode" will accept bare keys of JSON object that are invalid JSON format.

As same as the "relaxed" option, this option may be used to parse application-specific files written by humans.

```
$json->allow_barekey->decode('{foo:"bar"}');
```

allow_bignum

```
    $json = $json->allow_bignum([$enable])
```

If $enable is true (or missing), then "decode" will convert the big integer Perl cannot handle as integer into a Math::BigInt object and convert a floating number (any) into a Math::BigFloat.

On the contary, "encode" converts "Math::BigInt" objects and "Math::BigFloat" objects into JSON numbers with "allow_blessed" enable.

```
   $json->allow_nonref->allow_blessed->allow_bignum;
   $bigfloat = $json->decode('2.000000000000000000000000001');
   print $json->encode($bigfloat);
   # => 2.000000000000000000000000001
```

See to MAPPING aboout the conversion of JSON number.

loose

```
    $json = $json->loose([$enable])
```

The unescaped [\x00-\x1f\x22\x2f\x5c] strings are invalid in JSON strings and the module doesn't allow to "decode" to these (except for \x2f). If $enable is true (or missing), then "decode" will accept these unescaped strings.

```
    $json->loose->decode(qq|["abc
                               def"]|);
```

See to "JSON::PP OWN METHODS" in JSON::PP.

escape_slash

```
    $json = $json->escape_slash([$enable])
```

According to JSON Grammar, *slash* (U+002F) is escaped. But by default JSON backend modules encode strings without escaping slash.

If $enable is true (or missing), then "encode" will escape slashes.

indent_length

```
    $json = $json->indent_length($length)
```

With JSON::XS, The indent space length is 3 and cannot be changed. With JSON::PP, it sets the indent space length with the given $length. The default is 3. The acceptable range is 0 to 15.

sort_by

```
    $json = $json->sort_by($function_name)
    $json = $json->sort_by($subroutine_ref)
```

If $function_name or $subroutine_ref are set, its sort routine are used.

```
$js = $pc->sort_by(sub { $JSON::PP::a cmp $JSON::PP::b })->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);

$js = $pc->sort_by('own_sort')->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);

sub JSON::PP::own_sort { $JSON::PP::a cmp $JSON::PP::b }
```

As the sorting routine runs in the JSON::PP scope, the given subroutine name and the special variables $a, $b will begin with 'JSON::PP::'.

If $integer is set, then the effect is same as "canonical" on.

See to "JSON::PP OWN METHODS" in JSON::PP.

MAPPING

This section is copied from JSON::XS and modified to "JSON". JSON::XS and JSON::PP mapping mechanisms are almost equivalent.

See to "MAPPING" in JSON::XS.

JSON -> PERL

object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserver object key ordering itself).

array

A JSON array becomes a reference to an array in Perl.

string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, "JSON" will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss

of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded toa JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

If the backend is JSON::PP and "allow_bignum" is enable, the big integers and the numeric can be optionally converted into Math::BigInt and Math::BigFloat objects.

true, false

These JSON atoms become "JSON::true" and "JSON::false", respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check wether a scalar is a JSON boolean by using the "JSON::is_bool" function.

If "JSON::true" and "JSON::false" are used as strings or compared as strings, they represent as "true" and "false" respectively.

```
print JSON::true . "\n";
 => true
print JSON::true + 1;
 => 1

ok(JSON::true eq 'true');
ok(JSON::true eq  '1');
ok(JSON::true == 1);
```

"JSON" will install these missing overloading features to the backend modules.

null

A JSON null atom becomes "undef" in Perl.

"JSON::null" returns "unddef".

PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be

encoded in a pseudo-random order that can change between runs of the same program but stays generally the same within a single run of a program. "JSON" optionally sort the hash keys (determined by the *canonical* flag), so the same datastructure will serialise to the same JSON text (given same settings and version of JSON::XS), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

In future, the ordered object feature will be added to JSON::PP using "tie" mechanism.

array references
Perl array references become JSON arrays.

other references
Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers 0 and 1, which get turned into "false" and "true" atoms in JSON. You can also use "JSON::false" and "JSON::true" to improve readability.

```
to_json [\0,JSON::true]      # yields [false,true]
```

JSON::true, JSON::false, JSON::null
These special values become JSON true and JSON false values, respectively. You can also use "\1" and "\0" directly if you want.

JSON::null returns "undef".

blessed objects
Blessed objects are not directly representable in JSON. See the "allow_blessed" and "convert_blessed" methods on various options on how to deal with this: basically, you can choose between throwing an exception, encoding the reference as if it weren't blessed, or provide your own serialiser method.

With "convert_blessed_universally" mode, "encode" converts blessed hash references or blessed array references (contains other blessed references) into JSON members and arrays.

```
use JSON -convert_blessed_universally;
JSON->new->allow_blessed->convert_blessed->encode( $blessed_object );
```

See to convert_blessed.

simple scalars
Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::XS and JSON::PP will encode undefined scalars as JSON "null" values, scalars that have last been

used in a string context before encoding as JSON strings, and anything else as number value:

```
# dump as number
encode_json [2]                    # yields [2]
encode_json [-3.0e17]              # yields [-3e+17]
my $value = 5; encode_json [$value]  # yields [5]

# used as string, so dump as string
print $value;
encode_json [$value]               # yields ["5"]

# undef becomes null
encode_json [undef]                # yields [null]
```

You can force the type to be a string by stringifying it:

```
my $x = 3.1; # some variable containing a number
"$x";        # stringified
$x .= "";    # another, more awkward way to stringify
print $x;    # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
my $x = "3"; # some variable containing a string
$x += 0;     # numify it, ensuring it will be dumped as a number
$x *= 1;     # same thing, the choise is yours.
```

You can not currently force the type in other, less obscure, ways.

Big Number

If the backend is JSON::PP and "allow_bignum" is enable, "encode" converts "Math::BigInt" objects and "Math::BigFloat" objects into JSON numbers.

JSON and ECMAscript

See to "JSON and ECMAscript" in JSON::XS.

JSON and YAML

JSON is not a subset of YAML. See to "JSON and YAML" in JSON::XS.

BACKEND MODULE DECISION

When you use "JSON", "JSON" tries to "use" JSON::XS. If this call failed, it will "uses" JSON::PP. The required JSON::XS version is *2.2* or later.

The "JSON" constructor method returns an object inherited from the backend module, and JSON::XS object is a blessed scaler reference while

JSON::PP is a blessed hash reference.

So, your program should not depend on the backend module, especially returned objects should not be modified.

```
 my $json = JSON->new; # XS or PP?
 $json->{stash} = 'this is xs object'; # this code may raise an error!
```

To check the backend module, there are some methods - "backend", "is_pp" and "is_xs".

```
  JSON->backend; # 'JSON::XS' or 'JSON::PP'

  JSON->backend->is_pp: # 0 or 1

  JSON->backend->is_xs: # 1 or 0

  $json->is_xs; # 1 or 0

  $json->is_pp; # 0 or 1
```

If you set an enviornment variable "PERL_JSON_BACKEND", The calling action will be changed.

PERL_JSON_BACKEND = 0 or PERL_JSON_BACKEND = 'JSON::PP'
  Always use JSON::PP

PERL_JSON_BACKEND == 1 or PERL_JSON_BACKEND = 'JSON::XS,JSON::PP'
  (The default) Use compiled JSON::XS if it is properly compiled & installed, otherwise use JSON::PP.

PERL_JSON_BACKEND == 2 or PERL_JSON_BACKEND = 'JSON::XS'
  Always use compiled JSON::XS, die if it isn't properly compiled & installed.

These ideas come from DBI::PurePerl mechanism.

example:

```
 BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::PP' }
 use JSON; # always uses JSON::PP
```

In future, it may be able to specify another module.

USE PP FEATURES EVEN THOUGH XS BACKEND

Many methods are available with either JSON::XS or JSON::PP and when the backend module is JSON::XS, if any JSON::PP specific (i.e. JSON::XS unspported) method is called, it will "warn" and be noop.

But If you "use" "JSON" passing the optional string "-support_by_pp", it makes a part of those unupported methods available. This feature is achieved by using JSON::PP in "de/encode".

```
BEGIN { $ENV{PERL_JSON_BACKEND} = 2 } # with JSON::XS
use JSON -support_by_pp;
my $json = new JSON;
$json->allow_nonref->escape_slash->encode("/");
```

At this time, the returned object is a "JSON::Backend::XS::Supportable" object (re-blessed XS object), and by checking JSON::XS unsupported flags in de/encoding, can support some unsupported methods - "loose", "allow_bignum", "allow_barekey", "allow_singlequote", "escape_slash", "as_nonblessed" and "indent_length".

When any unsupported methods are not enable, "XS de/encode" will be used as is. The switch is achieved by changing the symbolic tables.

"-support_by_pp" is effective only when the backend module is JSON::XS and it makes the de/encoding speed down a bit.

See to "JSON::PP SUPPORT METHODS".

INCOMPATIBLE CHANGES TO OLD VERSION

There are big incompatibility between new version (2.00) and old (1.xx). If you use old "JSON" 1.xx in your code, please check it.

See to "Transition ways from 1.xx to 2.xx."

jsonToObj and objToJson are obsoleted.

Non Perl-style name "jsonToObj" and "objToJson" are obsoleted (but not yet deleted from the source). If you use these functions in your code, please replace them with "from_json" and "to_json".

Global variables are no longer available.

"JSON" class variables - $JSON::AUTOCONVERT, $JSON::BareKey, etc... - are not avaliable any longer. Instead, various features can be used through object methods.

Package JSON::Converter and JSON::Parser are deleted.

Now "JSON" bundles with JSON::PP which can handle JSON more properly than them.

Package JSON::NotString is deleted.

There was "JSON::NotString" class which represents JSON value "true", "false", "null" and numbers. It was deleted and replaced by "JSON::Boolean".

"JSON::Boolean" represents "true" and "false".

"JSON::Boolean" does not represent "null".

"JSON::null" returns "undef".

"JSON" makes JSON::XS::Boolean and JSON::PP::Boolean is-a relation to JSON::Boolean.

function JSON::Number is obsoleted.
"JSON::Number" is now needless because JSON::XS and JSON::PP have round-trip integrity.

JSONRPC modules are deleted.
Perl implementation of JSON-RPC protocol - "JSONRPC ", "JSONRPC::Transport::HTTP" and "Apache::JSONRPC " are deleted in this distribution. Instead of them, there is JSON::RPC which supports JSON-RPC protocol version 1.1.

Transition ways from 1.xx to 2.xx.
You should set "suport_by_pp" mode firstly, because it is always successful for the below codes even with JSON::XS.

```
use JSON -support_by_pp;
```

Exported jsonToObj (simple)

```
from_json($json_text);
```

Exported objToJson (simple)

```
to_json($perl_scalar);
```

Exported jsonToObj (advanced)

```
$flags = {allow_barekey => 1, allow_singlequote => 1};
from_json($json_text, $flags);
```

equivalent to:

```
$JSON::BareKey = 1;
$JSON::QuotApos = 1;
jsonToObj($json_text);
```

Exported objToJson (advanced)

```
$flags = {allow_blessed => 1, allow_barekey => 1};
to_json($perl_scalar, $flags);
```

equivalent to:

```
    $JSON::BareKey = 1;
    objToJson($perl_scalar);

jsonToObj as object method
    $json->decode($json_text);

objToJson as object method
    $json->encode($perl_scalar);
```

new method with parameters

The "new" method in 2.x takes any parameters no longer. You can set parameters instead;

```
     $json = JSON->new->pretty;
```

$JSON::Pretty, $JSON::Indent, $JSON::Delimiter

If "indent" is enable, that menas $JSON::Pretty flag set. And $JSON::Delimiter was substituted by "space_before" and "space_after". In conclusion:

```
     $json->indent->space_before->space_after;
```

Equivalent to:

```
     $json->pretty;
```

To change indent length, use "indent_length".

(Only with JSON::PP, if "-support_by_pp" is not used.)

```
     $json->pretty->indent_length(2)->encode($perl_scalar);
```

$JSON::BareKey

(Only with JSON::PP, if "-support_by_pp" is not used.)

```
     $json->allow_barekey->decode($json_text)
```

$JSON::ConvBlessed

use "-convert_blessed_universally". See to convert_blessed.

$JSON::QuotApos

(Only with JSON::PP, if "-support_by_pp" is not used.)

```
     $json->allow_singlequote->decode($json_text)
```

$JSON::SingleQuote

Disable. "JSON" does not make such a invalid JSON string any longer.

$JSON::KeySort
    $json->canonical->encode($perl_scalar)

  This is the ascii sort.

  If you want to use with your own sort routine, check the "sort_by"
  method.

  (Only with JSON::PP, even if "-support_by_pp" is used currently.)

    $json->sort_by($sort_routine_ref)->encode($perl_scalar)

    $json->sort_by(sub { $JSON::PP::a <=> $JSON::PP::b })->encode($perl_scalar)

  Can't access $a and $b but $JSON::PP::a and $JSON::PP::b.

$JSON::SkipInvalid
    $json->allow_unknown

$JSON::AUTOCONVERT
  Needless. "JSON" backend modules have the round-trip integrity.

$JSON::UTF8
  Needless because "JSON" (JSON::XS/JSON::PP) sets the UTF8 flag on
  properly.

      # With UTF8-flagged strings

      $json->allow_nonref;
      $str = chr(1000); # UTF8-flagged

      $json_text = $json->utf8(0)->encode($str);
      utf8::is_utf8($json_text);
      # true
      $json_text = $json->utf8(1)->encode($str);
      utf8::is_utf8($json_text);
      # false

      $str = "" . chr(1000) . ""; # UTF8-flagged

      $perl_scalar = $json->utf8(0)->decode($str);
      utf8::is_utf8($perl_scalar);
      # true
      $perl_scalar = $json->utf8(1)->decode($str);
      # died because of 'Wide character in subroutine'

  See to "A FEW NOTES ON UNICODE AND PERL" in JSON::XS.

$JSON::UnMapping
Disable. See to MAPPING.

$JSON::SelfConvert
This option was deleted. Instead of it, if a givien blessed object has the "TO_JSON" method, "TO_JSON" will be executed with "convert_blessed".

```
$json->convert_blessed->encode($bleesed_hashref_or_arrayref)
# if need, call allow_blessed
```

Note that it was "toJson" in old version, but now not "toJson" but "TO_JSON".

TODO

example programs

THREADS

No test with JSON::PP. If with JSON::XS, See to "THREADS" in JSON::XS.

BUGS

Please report bugs relevant to "JSON" to <makamaka[at]cpan.org>.

SEE ALSO

Most of the document is copied and modified from JSON::XS doc.

JSON::XS, JSON::PP

"RFC4627"(<http://www.ietf.org/rfc/rfc4627.txt>)

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JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

The relese of this new version owes to the courtesy of Marc Lehmann.

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Gnomovision version 69, Copyright (C) 19xx name of author
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<signature of Ty Coon>, 1 April 1989
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That's all there is to it!

2.182 JSON-XS 2.26

2.182.1 Available under license :

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2.183 jwhois 4.0

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2.185 kerberos 1.13.1

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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c

uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c

lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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2.187 KVM inter-VM shared memory module 1

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Nahanni/ivshmem guest-code

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2.190 libaio 0.3.110-1

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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e) Verify that the user has already received a copy of these

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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2.191 libarchive 3.1.2

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2.192 libart_lgpl 2.3.20

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is

analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is

included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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2.193 libdnet 1.12

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```
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*
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*
* @(#)err.h 8.1 (Berkeley) 6/2/93
*/

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2.194 libevent 1.4.13-stable

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2.195 libiconv 1.14

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GNU LIBICONV - character set conversion library

This library provides an iconv() implementation, for use on systems which
don't have one, or whose implementation cannot convert from/to Unicode.

It provides support for the encodings:

European languages
ASCII, ISO-8859-{1,2,3,4,5,7,9,10,13,14,15,16},
KOI8-R, KOI8-U, KOI8-RU,
CP{1250,1251,1252,1253,1254,1257}, CP{850,866,1131},
Mac{Roman,CentralEurope,Iceland,Croatian,Romania},
Mac{Cyrillic,Ukraine,Greek,Turkish},
Macintosh
Semitic languages
ISO-8859-{6,8}, CP{1255,1256}, CP862, Mac{Hebrew,Arabic}
Japanese
EUC-JP, SHIFT_JIS, CP932, ISO-2022-JP, ISO-2022-JP-2, ISO-2022-JP-1
Chinese
EUC-CN, HZ, GBK, CP936, GB18030, EUC-TW, BIG5, CP950, BIG5-HKSCS,
BIG5-HKSCS:2004, BIG5-HKSCS:2001, BIG5-HKSCS:1999, ISO-2022-CN,
ISO-2022-CN-EXT
Korean
EUC-KR, CP949, ISO-2022-KR, JOHAB
Armenian
ARMSCII-8
Georgian
Georgian-Academy, Georgian-PS
Tajik
KOI8-T
Kazakh
PT154, RK1048
Thai
ISO-8859-11, TIS-620, CP874, MacThai
Laotian
MuleLao-1, CP1133
Vietnamese
VISCII, TCVN, CP1258
Platform specifics
HP-ROMAN8, NEXTSTEP
Full Unicode
UTF-8
UCS-2, UCS-2BE, UCS-2LE
UCS-4, UCS-4BE, UCS-4LE
UTF-16, UTF-16BE, UTF-16LE
UTF-32, UTF-32BE, UTF-32LE

UTF-7
C99, JAVA
Full Unicode, in terms of 'uint16_t' or 'uint32_t'
(with machine dependent endianness and alignment)
UCS-2-INTERNAL, UCS-4-INTERNAL
Locale dependent, in terms of 'char' or 'wchar_t'
(with machine dependent endianness and alignment, and with OS and locale dependent semantics)
char, wchar_t
The empty encoding name "" is equivalent to "char": it denotes the locale dependent character encoding.

When configured with the option --enable-extra-encodings, it also provides support for a few extra encodings:

European languages
CP{437,737,775,852,853,855,857,858,860,861,863,865,869,1125}
Semitic languages
CP864
Japanese
EUC-JISX0213, Shift_JISX0213, ISO-2022-JP-3
Chinese
BIG5-2003 (experimental)
Turkmen
TDS565
Platform specifics
ATARIST, RISCOS-LATIN1

It can convert from any of these encodings to any other, through Unicode conversion.

It has also some limited support for transliteration, i.e. when a character cannot be represented in the target character set, it can be approximated through one or several similarly looking characters. Transliteration is activated when "//TRANSLIT" is appended to the target encoding name.

libiconv is for you if your application needs to support multiple character encodings, but that support lacks from your system.

Installation

As usual for GNU packages:

```
$ ./configure --prefix=/usr/local
$ make
$ make install
```

After installing GNU libiconv for the first time, it is recommended to
recompile and reinstall GNU gettext, so that it can take advantage of
libiconv.

On systems other than GNU/Linux, the iconv program will be internationalized
only if GNU gettext has been built and installed before GNU libiconv. This
means that the first time GNU libiconv is installed, we have a circular
dependency between the GNU libiconv and GNU gettext packages, which can be
resolved by building and installing either
 - first libiconv, then gettext, then libiconv again,
or (on systems supporting shared libraries, excluding AIX)
 - first gettext, then libiconv, then gettext again.
Recall that before building a package for the second time, you need to erase
the traces of the first build by running "make distclean".

This library can be built and installed in two variants:

 - The library mode. This works on all systems, and uses a library
   'libiconv.so' and a header file '<iconv.h>'. (Both are installed
   through "make install".)

   To use it, simply #include <iconv.h> and use the functions.

   To use it in an autoconfiguring package:
   - If you don't use automake, append m4/iconv.m4 to your aclocal.m4
     file.
   - If you do use automake, add m4/iconv.m4 to your m4 macro repository.
   - Add to the link command line of libraries and executables that use
     the functions the placeholder @LIBICONV@ (or, if using libtool for
     the link, @LTLIBICONV@). If you use automake, the right place for
     these additions are the *_LDADD variables.
   Note that 'iconv.m4' is also part of the GNU gettext package, which
   installs it in /usr/local/share/aclocal/iconv.m4.

 - The libc plug/override mode. This works on GNU/Linux, Solaris and OSF/1
   systems only. It is a way to get good iconv support without having
   glibc-2.1.
   It installs a library 'preloadable_libiconv.so'. This library can be used
   with LD_PRELOAD, to override the iconv* functions present in the C library.

   On GNU/Linux and Solaris:
      $ export LD_PRELOAD=/usr/local/lib/preloadable_libiconv.so

   On OSF/1:
      $ export _RLD_LIST=/usr/local/lib/preloadable_libiconv.so:DEFAULT

   A program's source need not be modified, the program need not even be

recompiled. Just set the LD_PRELOAD environment variable, that's it!

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Download
---

http://ftp.gnu.org/gnu/libiconv/libiconv-1.14.tar.gz

Homepage
---

http://www.gnu.org/software/libiconv/

Bug reports to

<bug-gnu-libiconv@gnu.org>

Bruno Haible <bruno@clisp.org>
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* @(#) $Header: /tcpdump/master/libpcap/sunatmpos.h,v 1.1 2002-07-11 09:06:47 guy Exp $ (LBL)

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2.200 libpng 1.2.49

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2.201 libusb 1.017

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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2.202 libusb-compat 0.1.5

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case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not

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2.203 libwww-perl 5.834

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L I B W W W - P E R L - 5

The libwww-perl collection is a set of Perl modules which provides a
simple and consistent application programming interface to the
World-Wide Web. The main focus of the library is to provide classes
and functions that allow you to write WWW clients. The library also
contain modules that are of more general use and even classes that
help you implement simple HTTP servers.

PREREQUISITES

In order to install and use this package you will need Perl version

5.6 or better. Some modules within this package depend on other packages that are distributed separately from Perl. We recommend that you have the following packages installed before you install libwww-perl:

```
URI
MIME-Base64
HTML-Tagset
HTML-Parser
libnet
Digest-MD5
Compress-Zlib
```

If you want to access sites using the https protocol, then you need to install the Crypt::SSLeay or the IO::Socket::SSL module. The README.SSL file will tell you more about how libwww-perl supports SSL.

INSTALLATION

You install libwww-perl using the normal perl module distribution drill:

```
perl Makefile.PL
make
make test
make install
```

If you don't want to install any programs (only the library files) then pass the '--no-programs' option to Makefile.PL:

```
perl Makefile.PL --no-programs
```

DOCUMENTATION

See the lib/LWP.pm file for an overview of the library. See the Changes file for recent changes.

POD style documentation is included in all modules and scripts. These are normally converted to manual pages and installed as part of the "make install" process. You should also be able to use the 'perldoc' utility to extract and read documentation from the module files directly.

SUPPORT

Bug reports and suggestions for improvements can be sent to the

<libwww@perl.org> mailing list. This mailing list is also the place
for general discussions and development of the libwww-perl package.

AVAILABILITY

The latest version of libwww-perl is available from CPAN:

  http://search.cpan.org/dist/libwww-perl/

If you want to hack on the source it might be a good idea to grab the
latest version with git using the command:

  git clone git://gitorious.org/libwww-perl/mainline.git lwp

You can also browse the git repository at:

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2.204 libxml2 2.9.2

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2.205 libxslt 1.1.28

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2.206 lilo 22.8

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2.208 Linux Kernel 3.10.53

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

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school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*   as needed. This means that data must always be copied to create
*   the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*   Fix is simple: make large buffers large enough to hold entire
*   SDU, and leave <small_buffer_data> bytes empty at the start. Then
*   copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*   buffers. This is done by 2 things:
*   1) skb->destructor / skb->atm.recycle_buffer
*   combined, allow nicstar_free_rx_skb to be called to
*   recycle large data buffers
*   2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*   details.

*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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2.210 List-MoreUtils 0.22

2.210.1 Available under license :

List-MoreUtils version 0.22
==========

Provide the missing functionality from List::Util (see "SUGGESTED ADDITIONS" in
its manpage).

INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

DEPENDENCIES

This module requires these other modules and libraries:

```
No modules, but a C compiler would be nice
(although not strictly required)
```

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Version 1, February 1989

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2.211 Log-Trace 1.07

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2.212 log4j 1.2.16

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2.215 lsof 4.8

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2.216 lua 5.1.4

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2.217 luajit 2.0.2

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==========

2.218 Math-Base85 0.2

2.218.1 Available under license :

README...

==========
Math::Base85 Version 0.2

=======================

This module handles numbers in base 85, via strings and Math::BigInt.
For more information, read the module or rfc1924.txt.

The usual installation instructions apply:

```
/path/to/perl Makefile.PL
make
make test
make install
```

Please report bugs to the author at <tmonroe plus perl at nog dot net>.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.220 Math-BigInt-Pari 1.13

2.220.1 Available under license :

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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The hypothetical commands `show w' and `show c' should show the
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.221 Math-Complex 1.56

2.221.1 Available under license :

```
--- #YAML:1.0
name:               Math-Complex
version:            1.56
abstract:           ~
license:            perl
author:             ~
generated_by:       ExtUtils::MakeMaker version 6.42
distribution_type:  module
requires:
  Scalar::Util:             1.11
  Test::More:                0
meta-spec:
  url:     http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
```

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<one line to give the program's name and a brief idea of what it does.>
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when it starts in an interactive mode:

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The hypothetical commands `show w' and `show c' should show the
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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.222 Math-GMP 2.06

2.222.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

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2.223 Math-Pari 2.01080602

2.223.1 Available under license :

from README...

<snip>

The code is distributed with the same license as Perl (i.e., Artistic or
or GPL); however, it uses GP/PARI code, which is purely GPL.

<snip>

```
#
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# Output extended help corresponding to a given GP command. By default,
```

extract relevant information from from the PARI manual, run TeX, then open
an xdvi display.

<snip>

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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2.228 MIME-Types 1.28

2.228.1 Available under license :

```
--- #YAML:1.0
name:               MIME-Types
version:            1.28
abstract:           Definition of MIME types
license:            perl
author:
  - Mark Overmeer
generated_by:       ExtUtils::MakeMaker version 6.42
distribution_type:  module
requires:
  Test::More:                0.47
  Test::Pod:                 1
meta-spec:
  url:     http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
```

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Modemu Version 0.0.1

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```
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```

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2.232 Module-Pluggable 3.9

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<snip>

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```

BUGS

```
  None known.
```

SEE ALSO

File::Spec, File::Find, File::Basename, Class::Factory::Util, Module::Pluggable::Ordered

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<signature of Ty Coon>, 1 April 1989
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2.233 mojolicious 5.28

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```
%= 20 + 3
% my $self = shift;
% if ($self->app->mode eq 'development') {
%= $self->stash('exception')->message
% }
% else {
Internal Server Error
% }
% my $c = shift;
Hello Mojo from the other template <%= $c->url_for %>!
% my $self = shift;
<!DOCTYPE html>
<html>
<head></head>
<body>
<%= $self->render_to_string(template => '23') %><%= $self->content %>
</body>
</html>
% my $self = shift;
<!DOCTYPE html>
<html>
<head></head>
<body>
Same old in green <%= $self->content %>
</body>
</html>
% {
<% my $block = begin %>
<% my $name = shift; =%>
Hello <%= $name %>.
<% end %>
%= $block->('Baerbel')
%= $block->('Wolfgang')
% shift->stash(layout => 'green');
Seems to work!
```

Higher precedence!

2.234 msmtp 1.4.31

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2.235 Ncurses 5.6

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-----------------------------------------------------------------------------
-- $Id: README,v 1.23 2006/04/22 22:19:37 tom Exp $
-----------------------------------------------------------------------------
  README file for the ncurses package

See the file ANNOUNCE for a summary of ncurses features and ports.
See the file INSTALL for instructions on how to build and install ncurses.
See the file NEWS for a release history and bug-fix notes.
See the file TO-DO for things that still need doing, including known bugs.
```

Browse the file misc/ncurses-intro.html for narrative descriptions of how
to use ncurses and the panel, menu, and form libraries.

Browse the file doc/html/hackguide.html for a tour of the package internals.

ROADMAP AND PACKAGE OVERVIEW:

You should be reading this file in a directory called: ncurses-d.d, where d.d
is the current version number (see the dist.mk file in this directory for
that). There should be a number of subdirectories, including `c++', `form',
`man', `menu', `misc', `ncurses', `panel', `progs', `test', 'tack' and `Ada95'.
(The 'tack' program may be distributed separately).

A full build/install of this package typically installs several libraries, a
handful of utilities, and a database hierarchy. Here is an inventory of the
pieces:

The libraries are:

libncurses.a	(normal)
libncurses.so	(shared)
libncurses_g.a	(debug and trace code enabled)
libncurses_p.a	(profiling enabled)

libpanel.a	(normal)
libpanel.so	(shared)
libpanel_g.a	(debug and trace code enabled)

libmenu.a	(normal)
libmenu.so	(shared)
libmenu_g.a	(debug enabled)

libform.a	(normal)
libform.so	(shared)
libform_g.a	(debug enabled)

If you configure using the --enable-widec option, a "w" is appended to the
library names (e.g., libncursesw.a), and the resulting libraries support
wide-characters, e.g., via a UTF-8 locale. The corresponding header files
are compatible with the non-wide-character configuration; wide-character
features are provided by ifdef's in the header files. The wide-character
library interfaces are not binary-compatible with the non-wide-character
version.

The ncurses libraries implement the curses API. The panel, menu and forms
libraries implement clones of the SVr4 panel, menu and forms APIs. The source
code for these lives in the `ncurses', `panel', `menu', and `form' directories

respectively.

In the `c++' directory, you'll find code that defines an interface to the
curses, forms, menus and panels library packaged as C++ classes, and a demo program in C++
to test it. These class definition modules are not installed by the 'make
install.libs' rule as libncurses++.

In the `Ada95' directory, you'll find code and documentation for an
Ada95 binding of the curses API, to be used with the GNAT compiler.
This binding is built by a normal top-level `make' if configure detects
an usable version of GNAT (3.11 or above). It is not installed automatically.
See the Ada95 directory for more build and installation instructions and
for documentation of the binding.

To do its job, the ncurses code needs your terminal type to be set in the
environment variable TERM (normally set by your OS; under UNIX, getty(1)
typically does this, but you can override it in your .profile); and, it needs a
database of terminal descriptions in which to look up your terminal type's
capabilities.

In older (V7/BSD) versions of curses, the database was a flat text file,
/etc/termcap; in newer (USG/USL) versions, the database is a hierarchy of
fast-loading binary description blocks under /usr/lib/terminfo. These binary
blocks are compiled from an improved editable text representation called
`terminfo' format (documented in man/terminfo.5). The ncurses library can use
either /etc/termcap or the compiled binary terminfo blocks, but prefers the
second form.

In the `misc' directory, there is a text file terminfo.src, in editable
terminfo format, which can be used to generate the terminfo binaries (that's
what make install.data does). If the package was built with the
--enable-termcap option enabled, and the ncurses library cannot find a terminfo
description for your terminal, it will fall back to the termcap file supplied
with your system (which the ncurses package installation leaves strictly
alone).

The utilities are as follows:

tic -- terminfo source to binary compiler
infocmp -- terminfo binary to source decompiler/comparator
clear -- emits clear-screen for current terminal
tput -- shell-script access to terminal capabilities.
toe -- table of entries utility
tset -- terminal-initialization utility

The first two (tic and infocmp) are used for manipulating terminfo
descriptions; the next two (clear and tput) are for use in shell scripts. The
last (tset) is provided for 4.4BSD compatibility. The source code for all of

these lives in the `progs' directory.

Detailed documentation for all libraries and utilities can be found in the `man' and `doc' directories. An HTML introduction to ncurses, panels, and menus programming lives in the `doc/html' directory. Manpages in HTML format are under `doc/html/man'.

The `test' directory contains programs that can be used to verify or demonstrate the functions of the ncurses libraries. See test/README for descriptions of these programs. Notably, the `ncurses' utility is designed to help you systematically exercise the library functions.

AUTHORS:

Pavel Curtis:
wrote the original ncurses

Zeyd M. Ben-Halim:
port of original to Linux and many enhancements.

Thomas Dickey (maintainer for 1.9.9g through 4.1, resuming with FSF's 5.0):
configuration scripts, porting, mods to adhere to XSI Curses in the areas of background color, terminal modes. Also memory leak testing, the wresize, default colors and key definition extensions and numerous bug fixes (more than half of those enumerated in NEWS beginning with the internal release 1.8.9).

Florian La Roche (official maintainer for FSF's ncurses 4.2)
Beginning with release 4.2, ncurses is distributed under an MIT-style license.

Eric S. Raymond:
the man pages, infocmp(1), tput(1), clear(1), captoinfo(1), tset(1), toe(1), most of tic(1), trace levels, the HTML intro, wgetnstr() and many other entry points, the cursor-movement optimization, the scroll-pack optimizer for vertical motions, the mouse interface and xterm mouse support, and the ncurses test program.

Juergen Pfeifer
The menu and form libraries, C++ bindings for ncurses, menus, forms and panels, as well as the Ada95 binding. Ongoing support for panel.

CONTRIBUTORS:

Alexander V. Lukyanov
for numerous fixes and improvements to the optimization logic.

David MacKenzie

for first-class bug-chasing and methodical testing.

Ross Ridge
for the code that hacks termcap parameterized strings into terminfo.

Warren Tucker and Gerhard Fuernkranz,
for writing and sending the panel library.

Hellmuth Michaelis,
for many patches and testing the optimization code.

Eric Newton, Ulrich Drepper, and Anatoly Ivasyuk:
the C++ code.

Jonathan Ross,
for lessons in using sed.

Keith Bostic (maintainer of 4.4BSD curses)
for help, criticism, comments, bug-finding, and being willing to
deep-six BSD curses for this one when it grew up.

Richard Stallman,
for his commitment to making ncurses free software.

Countless other people have contributed by reporting bugs, sending fixes,
suggesting improvements, and generally whining about ncurses :-)

BUGS:
See the INSTALL file for bug and developer-list addresses.
The Hacker's Guide in the doc directory includes some guidelines
on how to report bugs in ways that will get them fixed most quickly.

2.236 net tools 1.60

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2.238 Net-CIDR 0.13

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2.239 Net-CIDR-Lite 0.21

2.239.1 Available under license :

from Lite.pm

<snip>

=head1 COPYRIGHT

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<snip>
--- #YAML:1.0
name: Net-CIDR-Lite
version: 0.21
abstract: Perl extension for merging IPv4 or IPv6 CIDR addresses
author:
  - Douglas Wilson <dougw@cpan.org>
license: unknown
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
build_requires:
  ExtUtils::MakeMaker: 0
requires: {}
no_index:
  directory:
    - t
    - inc
generated_by: ExtUtils::MakeMaker version 6.56
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
from README

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<one line to give the program's name and a brief idea of what it does.>
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program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.240 Net-DNS 0.68

2.240.1 Available under license :

from /demo/mresolv

<snip>

=head1 COPYRIGHT

Copyright (c) 1997-2000 Michael Fuhr. All rights reserved. This
program is free software; you can redistribute it and/or modify it
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<snip>
from META.yml

```
--- #YAML:1.0
name:               Net-DNS
version:            0.68
abstract:           Perl DNS resolver module
author:
  - Olaf Kolkman <olaf@net-dns.org>
license:            perl
distribution_type:  module
configure_requires:
  ExtUtils::MakeMaker:  0
build_requires:
  ExtUtils::MakeMaker:  0
requires:
  Digest::HMAC_MD5:  1
  Digest::MD5:       2.12
  Digest::SHA:       5.23
  IO::Socket:        0
  MIME::Base64:      2.11
  Test::More:        0.18
no_index:
  directory:
    - t
    - inc
generated_by:       ExtUtils::MakeMaker version 6.56
meta-spec:
  url:      http://module-build.sourceforge.net/META-spec-v1.4.html
  version:  1.4
```

from README

<snip>

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<signature of Ty Coon>, 1 April 1989
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2.242 Net-IPv4Addr 0.1

2.242.1 Available under license :

from README

<snip>

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 <signature of Ty Coon>, 1 April 1989
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2.243 Net-IPv6Addr 0.2

2.243.1 Available under license :

from README

<snip>

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That's all there is to it!

2.244 Net-IPv6Addr/rfc-document 0.2

2.244.1 Available under license :

from rfc2373.txt This is the addressing architecture specification for IPV6.

<snip>

1.0 INTRODUCTION

This specification defines the addressing architecture of the IP Version 6 protocol. It includes a detailed description of the currently defined address formats for IPv6 [IPV6]

<snip>

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<snip>

2.245 Net-SCP-Expect 0.16

2.245.1 Available under license :

from Expect.pm

<snip>

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Daniel Berger

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<snip>

from META.yml

```
--- #YAML:1.0
name:               Net-SCP-Expect
version:            0.16
abstract:           Wrapper for scp that allows passwords via Expect.
license:            ~
author:
  - Eric Rybski <rybskej@yahoo.com>
generated_by:       ExtUtils::MakeMaker version 6.44
distribution_type:  module
requires:
  Expect:                   1.14
  Net::IPv6Addr:            0.2
  Term::ReadPassword:       0.01
meta-spec:
  url:     http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
```

from README

<snip>

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2.246 net-snmp 5.6.2 5.6.2

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1. Introduction

The SNMP Management Framework at the time of this writing consists of five major components:

- An overall architecture, described in STD 62, RFC 3411 [RFC3411].

- Mechanisms for describing and naming objects and events for the purpose of management. The first version of this Structure of Management Information (SMI) is called SMIv1 and described in STD 16, RFC 1155 [RFC1155], STD 16, RFC 1212 [RFC1212] and RFC 1215 [RFC1215]. The second version, called SMIv2, is described in STD 58, RFC 2578 [RFC2578], STD 58, RFC 2579 [RFC2579] and STD 58, RFC 2580 [RFC2580].

- Message protocols for transferring management information. The first version of the SNMP message protocol is called SNMPv1 and described in STD 15, RFC 1157 [RFC1157]. A second version of the SNMP message protocol, which is not an Internet standards track protocol, is called SNMPv2c and described in RFC 1901 [RFC1901] and STD 62, RFC 3417 [RFC3417]. The third version of the message protocol is called SNMPv3 and described in STD 62,

RFC 3417 [RFC3417], RFC 3412 [RFC3412] and RFC 3414 [RFC3414].

- Protocol operations for accessing management information. The first set of protocol operations and associated PDU formats is described in STD 15, RFC 1157 [RFC1157]. A second set of protocol operations and associated PDU formats is described in this document.

- A set of fundamental applications described in STD 62, RFC 3413 [RFC3413] and the view-based access control mechanism described in STD 62, RFC 3415 [RFC3415].

A more detailed introduction to the SNMP Management Framework at the time of this writing can be found in RFC 3410 [RFC3410].

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. Objects in the MIB are defined using the mechanisms defined in the SMI.

This document, Version 2 of the Protocol Operations for the Simple Network Management Protocol, defines the operations of the protocol with respect to the sending and receiving of PDUs to be carried by the message protocol.

2. Overview

SNMP entities supporting command generator or notification receiver applications (traditionally called "managers") communicate with SNMP entities supporting command responder or notification originator applications (traditionally called "agents"). The purpose of this protocol is the transport of management information and operations.

2.1. Management Information

The term "variable" refers to an instance of a non-aggregate object type defined according to the conventions set forth in the SMI [RFC2578] or the textual conventions based on the SMI [RFC2579]. The term "variable binding" normally refers to the pairing of the name of a variable and its associated value. However, if certain kinds of

exceptional conditions occur during processing of a retrieval request, a variable binding will pair a name and an indication of that exception.

A variable-binding list is a simple list of variable bindings.

The name of a variable is an OBJECT IDENTIFIER which is the concatenation of the OBJECT IDENTIFIER of the corresponding object-type together with an OBJECT IDENTIFIER fragment identifying the instance. The OBJECT IDENTIFIER of the corresponding object-type is called the OBJECT IDENTIFIER prefix of the variable.

2.2. Retransmission of Requests

For all types of request in this protocol, the receiver is required under normal circumstances, to generate and transmit a response to the originator of the request. Whether or not a request should be retransmitted if no corresponding response is received in an appropriate time interval, is at the discretion of the application originating the request. This will normally depend on the urgency of the request. However, such an application needs to act responsibly in respect to the frequency and duration of re-transmissions. See BCP 41 [RFC2914] for discussion of relevant congestion control principles.

2.3. Message Sizes

The maximum size of an SNMP message is limited to the minimum of:

(1) the maximum message size which the destination SNMP entity can accept; and,

(2) the maximum message size which the source SNMP entity can generate.

The former may be known on a per-recipient basis; and in the absence of such knowledge, is indicated by transport domain used when sending the message. The latter is imposed by implementation-specific local constraints.

Each transport mapping for the SNMP indicates the minimum message size which a SNMP implementation must be able to produce or consume. Although implementations are encouraged to support larger values whenever possible, a conformant implementation must never generate messages larger than allowed by the receiving SNMP entity.

One of the aims of the GetBulkRequest-PDU, specified in this protocol, is to minimize the number of protocol exchanges required to retrieve a large amount of management information. As such, this PDU type allows an SNMP entity supporting command generator applications to request that the response be as large as possible given the constraints on message sizes. These constraints include the limits on the size of messages which the SNMP entity supporting command responder applications can generate, and the SNMP entity supporting command generator applications can receive.

However, it is possible that such maximum sized messages may be larger than the Path MTU of the path across the network traversed by the messages. In this situation, such messages are subject to fragmentation. Fragmentation is generally considered to be harmful [FRAG], since among other problems, it leads to a decrease in the reliability of the transfer of the messages. Thus, an SNMP entity which sends a GetBulkRequest-PDU must take care to set its parameters accordingly, so as to reduce the risk of fragmentation. In particular, under conditions of network stress, only small values should be used for max-repetitions.

2.4. Transport Mappings

It is important to note that the exchange of SNMP messages requires only an unreliable datagram service, with every message being entirely and independently contained in a single transport datagram. Specific transport mappings and encoding rules are specified elsewhere [RFC3417]. However, the preferred mapping is the use of the User Datagram Protocol [RFC768].

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2.5. SMIv2 Data Type Mappings

The SMIv2 [RFC2578] defines 11 base types (INTEGER, OCTET STRING, OBJECT IDENTIFIER, Integer32, IpAddress, Counter32, Gauge32, Unsigned32, TimeTicks, Opaque, Counter64) and the BITS construct. The SMIv2 base types are mapped to the corresponding selection type in the SimpleSyntax and ApplicationSyntax choices of the ASN.1 SNMP protocol definition. Note that the INTEGER and Integer32 SMIv2 base types are mapped to the integer-value selection type of the SimpleSyntax choice. Similarly, the Gauge32 and Unsigned32 SMIv2 base types are mapped to the unsigned-integer-value selection type of the ApplicationSyntax choice.

The SMIv2 BITS construct is mapped to the string-value selection type of the SimpleSyntax choice. A BITS value is encoded as an OCTET STRING, in which all the named bits in (the definition of) the bitstring, commencing with the first bit and proceeding to the last bit, are placed in bits 8 (high order bit) to 1 (low order bit) of the first octet, followed by bits 8 to 1 of each subsequent octet in turn, followed by as many bits as are needed of the final subsequent octet, commencing with bit 8. Remaining bits, if any, of the final octet are set to zero on generation and ignored on receipt.

3. Definitions

The PDU syntax is defined using ASN.1 notation [ASN1].

```
SNMPv2-PDU DEFINITIONS ::= BEGIN

ObjectName ::= OBJECT IDENTIFIER

ObjectSyntax ::= CHOICE {
    simple          SimpleSyntax,
    application-wide ApplicationSyntax }

SimpleSyntax ::= CHOICE {
    integer-value   INTEGER (-2147483648..2147483647),
    string-value    OCTET STRING (SIZE (0..65535)),
    objectID-value  OBJECT IDENTIFIER }

ApplicationSyntax ::= CHOICE {
    ipAddress-value       IpAddress,
    counter-value         Counter32,
    timeticks-value       TimeTicks,
    arbitrary-value       Opaque,
    big-counter-value     Counter64,
    unsigned-integer-value Unsigned32 }
```

```
IpAddress ::= [APPLICATION 0] IMPLICIT OCTET STRING (SIZE (4))

Counter32 ::= [APPLICATION 1] IMPLICIT INTEGER (0..4294967295)

Unsigned32 ::= [APPLICATION 2] IMPLICIT INTEGER (0..4294967295)

Gauge32 ::= Unsigned32

TimeTicks ::= [APPLICATION 3] IMPLICIT INTEGER (0..4294967295)

Opaque ::= [APPLICATION 4] IMPLICIT OCTET STRING

Counter64 ::= [APPLICATION 6]
        IMPLICIT INTEGER (0..18446744073709551615)

-- protocol data units

PDUs ::= CHOICE {
    get-request      GetRequest-PDU,
    get-next-request GetNextRequest-PDU,
    get-bulk-request GetBulkRequest-PDU,
    response         Response-PDU,
    set-request      SetRequest-PDU,
    inform-request   InformRequest-PDU,
    snmpV2-trap      SNMPv2-Trap-PDU,
    report           Report-PDU }

-- PDUs

GetRequest-PDU ::= [0] IMPLICIT PDU

GetNextRequest-PDU ::= [1] IMPLICIT PDU

Response-PDU ::= [2] IMPLICIT PDU

SetRequest-PDU ::= [3] IMPLICIT PDU

-- [4] is obsolete
```

```
GetBulkRequest-PDU ::= [5] IMPLICIT BulkPDU

InformRequest-PDU ::= [6] IMPLICIT PDU

SNMPv2-Trap-PDU ::= [7] IMPLICIT PDU

--  Usage and precise semantics of Report-PDU are not defined
--  in this document.  Any SNMP administrative framework making
--  use of this PDU must define its usage and semantics.
```



```
Report-PDU ::= [8] IMPLICIT PDU

max-bindings INTEGER ::= 2147483647

PDU ::= SEQUENCE {
      request-id INTEGER (-214783648..214783647),

      error-status              -- sometimes ignored
        INTEGER {
          noError(0),
          tooBig(1),
          noSuchName(2),      -- for proxy compatibility
          badValue(3),        -- for proxy compatibility
          readOnly(4),        -- for proxy compatibility
          genErr(5),
          noAccess(6),
          wrongType(7),
          wrongLength(8),
          wrongEncoding(9),
          wrongValue(10),
          noCreation(11),
          inconsistentValue(12),
          resourceUnavailable(13),
          commitFailed(14),
          undoFailed(15),
          authorizationError(16),
          notWritable(17),
          inconsistentName(18)
        },

      error-index               -- sometimes ignored
```

```
        INTEGER (0..max-bindings),

      variable-bindings          -- values are sometimes ignored
        VarBindList
    }

  BulkPDU ::=                    -- must be identical in
    SEQUENCE {                   -- structure to PDU
      request-id      INTEGER (-214783648..214783647),
      non-repeaters   INTEGER (0..max-bindings),
      max-repetitions INTEGER (0..max-bindings),

      variable-bindings          -- values are ignored
        VarBindList
    }

  -- variable binding
```



```
  VarBind ::= SEQUENCE {
      name ObjectName,

      CHOICE {
        value          ObjectSyntax,
        unSpecified    NULL,    -- in retrieval requests

                                -- exceptions in responses
        noSuchObject   [0] IMPLICIT NULL,
        noSuchInstance [1] IMPLICIT NULL,
        endOfMibView   [2] IMPLICIT NULL
      }
    }

  -- variable-binding list

  VarBindList ::= SEQUENCE (SIZE (0..max-bindings)) OF VarBind

  END
```

4. Protocol Specification

4.1. Common Constructs

The value of the request-id field in a Response-PDU takes the value of the request-id field in the request PDU to which it is a response. By use of the request-id value, an application can distinguish the (potentially multiple) outstanding requests, and thereby correlate incoming responses with outstanding requests. In cases where an unreliable datagram service is used, the request-id also provides a simple means of identifying messages duplicated by the network. Use of the same request-id on a retransmission of a request allows the response to either the original transmission or the retransmission to satisfy the request. However, in order to calculate the round trip time for transmission and processing of a request-response transaction, the application needs to use a different request-id value on a retransmitted request. The latter strategy is recommended for use in the majority of situations.

A non-zero value of the error-status field in a Response-PDU is used to indicate that an error occurred to prevent the processing of the request. In these cases, a non-zero value of the Response-PDU's error-index field provides additional information by identifying which variable binding in the list caused the error. A variable binding is identified by its index value. The first variable binding in a variable-binding list is index one, the second is index two, etc.

SNMP limits OBJECT IDENTIFIER values to a maximum of 128 sub-identifiers, where each sub-identifier has a maximum value of 2**32-1.

4.2. PDU Processing

In the elements of procedure below, any field of a PDU which is not referenced by the relevant procedure is ignored by the receiving SNMP entity. However, all components of a PDU, including those whose values are ignored by the receiving SNMP entity, must have valid ASN.1 syntax and encoding. For example, some PDUs (e.g., the GetRequest-PDU) are concerned only with the name of a variable and not its value. In this case, the value portion of the variable binding is ignored by the receiving SNMP entity. The unSpecified value is defined for use as the value portion of such bindings.

On generating a management communication, the message "wrapper" to encapsulate the PDU is generated according to the "Elements of Procedure" of the administrative framework in use. The definition of "max-bindings" imposes an upper bound on the number of variable bindings. In practice, the size of a message is also limited by constraints on the maximum message size. A compliant implementation must support as many variable bindings in a PDU or BulkPDU as fit into the overall maximum message size limit of the SNMP engine, but no more than 2147483647 variable bindings.

On receiving a management communication, the "Elements of Procedure" of the administrative framework in use is followed, and if those procedures indicate that the operation contained within the message is to be performed locally, then those procedures also indicate the MIB view which is visible to the operation.

4.2.1. The GetRequest-PDU

A GetRequest-PDU is generated and transmitted at the request of an application.

Upon receipt of a GetRequest-PDU, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU. All fields of the Response-PDU have the same values as the corresponding fields of the received request except as indicated below. Each variable binding is processed as follows:

(1) If the variable binding's name exactly matches the name of a variable accessible by this request, then the variable binding's value field is set to the value of the named variable.

(2) Otherwise, if the variable binding's name does not have an OBJECT IDENTIFIER prefix which exactly matches the OBJECT IDENTIFIER prefix of any (potential) variable accessible by this request, then its value field is set to "noSuchObject".

(3) Otherwise, the variable binding's value field is set to "noSuchInstance".

If the processing of any variable binding fails for a reason other than listed above, then the Response-PDU is re-formatted with the same values in its request-id and variable-bindings fields as the received GetRequest-PDU, with the value of its error-status field set to "genErr", and the value of its error-index field is set to the index of the failed variable binding.

Otherwise, the value of the Response-PDU's error-status field is set to "noError", and the value of its error-index field is zero.

The generated Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetRequest-PDU.

Otherwise, an alternate Response-PDU is generated. This alternate Response-PDU is formatted with the same value in its request-id field as the received GetRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded.

4.2.2. The GetNextRequest-PDU

A GetNextRequest-PDU is generated and transmitted at the request of an application.

Upon receipt of a GetNextRequest-PDU, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU. All fields of the Response-PDU have the same values as the corresponding fields of the received request except as indicated below. Each variable binding is processed as follows:

(1) The variable is located which is in the lexicographically ordered list of the names of all variables which are

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accessible by this request and whose name is the first lexicographic successor of the variable binding's name in the incoming GetNextRequest-PDU. The corresponding variable binding's name and value fields in the Response-PDU are set to the name and value of the located variable.

(2) If the requested variable binding's name does not lexicographically precede the name of any variable accessible by this request, i.e., there is no lexicographic successor, then the corresponding variable binding produced in the Response-PDU has its value field set to "endOfMibView", and its name field set to the variable binding's name in the request.

If the processing of any variable binding fails for a reason other than listed above, then the Response-PDU is re-formatted with the same values in its request-id and variable-bindings fields as the received GetNextRequest-PDU, with the value of its error-status field set to "genErr", and the value of its error-index field is set to the index of the failed variable binding.

Otherwise, the value of the Response-PDU's error-status field is set to "noError", and the value of its error-index field is zero.

The generated Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetNextRequest-PDU.

Otherwise, an alternate Response-PDU is generated. This alternate Response-PDU is formatted with the same values in its request-id field as the received GetNextRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetNextRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded.

4.2.2.1. Example of Table Traversal

An important use of the GetNextRequest-PDU is the traversal of conceptual tables of information within a MIB. The semantics of this type of request, together with the method of identifying individual instances of objects in the MIB, provides access to related objects

in the MIB as if they enjoyed a tabular organization.

In the protocol exchange sketched below, an application retrieves the media-dependent physical address and the address-mapping type for each entry in the IP net-to-media Address Translation Table [RFC1213] of a particular network element. It also retrieves the value of sysUpTime [RFC3418], at which the mappings existed. Suppose that the command responder's IP net-to-media table has three entries:

Interface-Number	Network-Address	Physical-Address	Type
1	10.0.0.51	00:00:10:01:23:45	static
1	9.2.3.4	00:00:10:54:32:10	dynamic
2	10.0.0.15	00:00:10:98:76:54	dynamic

The SNMP entity supporting a command generator application begins by sending a GetNextRequest-PDU containing the indicated OBJECT IDENTIFIER values as the requested variable names:

```
GetNextRequest ( sysUpTime,
                 ipNetToMediaPhysAddress,
                 ipNetToMediaType )
```

The SNMP entity supporting a command responder application responds with a Response-PDU:

```
Response (( sysUpTime.0 =  "123456" ),
          ( ipNetToMediaPhysAddress.1.9.2.3.4 = "000010543210" ),
         ( ipNetToMediaType.1.9.2.3.4 =  "dynamic" ))
```

The SNMP entity supporting the command generator application continues with:

```
GetNextRequest ( sysUpTime,
                 ipNetToMediaPhysAddress.1.9.2.3.4,
                 ipNetToMediaType.1.9.2.3.4 )
```

The SNMP entity supporting the command responder application responds with:

```
Response (( sysUpTime.0 =  "123461" ),
```

(ipNetToMediaPhysAddress.1.10.0.0.51 = "000010012345"),
(ipNetToMediaType.1.10.0.0.51 = "static"))

The SNMP entity supporting the command generator application continues with:

GetNextRequest (sysUpTime,
ipNetToMediaPhysAddress.1.10.0.0.51,
ipNetToMediaType.1.10.0.0.51)

The SNMP entity supporting the command responder application responds with:

Response ((sysUpTime.0 = "123466"),
(ipNetToMediaPhysAddress.2.10.0.0.15 = "000010987654"),
(ipNetToMediaType.2.10.0.0.15 = "dynamic"))

The SNMP entity supporting the command generator application continues with:

GetNextRequest (sysUpTime,
ipNetToMediaPhysAddress.2.10.0.0.15,
ipNetToMediaType.2.10.0.0.15)

As there are no further entries in the table, the SNMP entity supporting the command responder application responds with the variables that are next in the lexicographical ordering of the accessible object names, for example:

Response ((sysUpTime.0 = "123471"),
(ipNetToMediaNetAddress.1.9.2.3.4 = "9.2.3.4"),
(ipRoutingDiscards.0 = "2"))

Note how, having reached the end of the column for ipNetToMediaPhysAddress, the second variable binding from the command responder application has now "wrapped" to the first row in the next column. Furthermore, note how, having reached the end of the ipNetToMediaTable for the third variable binding, the command responder application has responded with the next available object, which is outside that table. This response signals the end of the table to the command generator application.

4.2.3. The GetBulkRequest-PDU

A GetBulkRequest-PDU is generated and transmitted at the request of an application. The purpose of the GetBulkRequest-PDU is to request the transfer of a potentially large amount of data, including, but not limited to, the efficient and rapid retrieval of large tables.

Upon receipt of a GetBulkRequest-PDU, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU with its request-id field having the same value as in the request.

For the GetBulkRequest-PDU type, the successful processing of each variable binding in the request generates zero or more variable bindings in the Response-PDU. That is, the one-to-one mapping between the variable bindings of the GetRequest-PDU, GetNextRequest-

PDU, and SetRequest-PDU types and the resultant Response-PDUs does not apply for the mapping between the variable bindings of a GetBulkRequest-PDU and the resultant Response-PDU.

The values of the non-repeaters and max-repetitions fields in the request specify the processing requested. One variable binding in the Response-PDU is requested for the first N variable bindings in the request and M variable bindings are requested for each of the R remaining variable bindings in the request. Consequently, the total number of requested variable bindings communicated by the request is given by N + (M * R), where N is the minimum of: a) the value of the non-repeaters field in the request, and b) the number of variable bindings in the request; M is the value of the max-repetitions field in the request; and R is the maximum of: a) number of variable bindings in the request - N, and b) zero.

The receiving SNMP entity produces a Response-PDU with up to the total number of requested variable bindings communicated by the request. The request-id shall have the same value as the received GetBulkRequest-PDU.

If N is greater than zero, the first through the (N)-th variable bindings of the Response-PDU are each produced as follows:

(1) The variable is located which is in the lexicographically ordered list of the names of all variables which are accessible by this request and whose name is the first lexicographic successor of the variable binding's name in the incoming GetBulkRequest-PDU. The corresponding variable binding's name and value fields in the Response-PDU are set to the name and value of the located variable.

(2) If the requested variable binding's name does not lexicographically precede the name of any variable accessible by this request, i.e., there is no lexicographic successor, then the corresponding variable binding produced in the Response-PDU has its value field set to "endOfMibView", and its name field set to the variable binding's name in the request.

If M and R are non-zero, the (N + 1)-th and subsequent variable bindings of the Response-PDU are each produced in a similar manner. For each iteration i, such that i is greater than zero and less than or equal to M, and for each repeated variable, r, such that r is greater than zero and less than or equal to R, the (N + ((i-1) * R) + r)-th variable binding of the Response-PDU is produced as follows:

(1) The variable which is in the lexicographically ordered list of the names of all variables which are accessible by this request and whose name is the (i)-th lexicographic successor of the (N + r)-th variable binding's name in the incoming GetBulkRequest-PDU is located and the variable binding's name and value fields are set to the name and value of the located variable.

(2) If there is no (i)-th lexicographic successor, then the corresponding variable binding produced in the Response-PDU has its value field set to "endOfMibView", and its name field set to either the last lexicographic successor, or if there are no lexicographic successors, to the (N + r)-th variable binding's name in the request.

While the maximum number of variable bindings in the Response-PDU is bounded by N + (M * R), the response may be generated with a lesser number of variable bindings (possibly zero) for either of three reasons.

(1) If the size of the message encapsulating the Response-PDU containing the requested number of variable bindings would be greater than either a local constraint or the maximum message size of the originator, then the response is generated with a lesser number of variable bindings. This lesser number is the ordered set of variable bindings with some of the variable bindings at the end of the set removed, such that the size of the message encapsulating the Response-PDU is approximately equal to but no greater than either a local constraint or the maximum message size of the originator. Note that the number of variable bindings removed has no relationship to the values of N, M, or R.

(2) The response may also be generated with a lesser number of variable bindings if for some value of iteration i, such that i is greater than zero and less than or equal to M, that all of the generated variable bindings have the value field set to "endOfMibView". In this case, the variable bindings may be truncated after the (N + (i * R))-th variable binding.

(3) In the event that the processing of a request with many repetitions requires a significantly greater amount of processing time than a normal request, then a command responder application may terminate the request with less than the full number of repetitions, providing at least one repetition is completed.

If the processing of any variable binding fails for a reason other than listed above, then the Response-PDU is re-formatted with the same values in its request-id and variable-bindings fields as the received GetBulkRequest-PDU, with the value of its error-status field set to "genErr", and the value of its error-index field is set to the index of the variable binding in the original request which corresponds to the failed variable binding.

Otherwise, the value of the Response-PDU's error-status field is set to "noError", and the value of its error-index field to zero.

The generated Response-PDU (possibly with an empty variable-bindings field) is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetBulkRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded.

4.2.3.1. Another Example of Table Traversal

This example demonstrates how the GetBulkRequest-PDU can be used as an alternative to the GetNextRequest-PDU. The same traversal of the IP net-to-media table as shown in Section 4.2.2.1 is achieved with fewer exchanges.

The SNMP entity supporting the command generator application begins by sending a GetBulkRequest-PDU with the modest max-repetitions value of 2, and containing the indicated OBJECT IDENTIFIER values as the requested variable names:

```
GetBulkRequest [ non-repeaters = 1, max-repetitions = 2 ]
            ( sysUpTime,
              ipNetToMediaPhysAddress,
              ipNetToMediaType )
```

The SNMP entity supporting the command responder application responds with a Response-PDU:

```
Response (( sysUpTime.0 =  "123456" ),
          ( ipNetToMediaPhysAddress.1.9.2.3.4 = "000010543210" ),
        ( ipNetToMediaType.1.9.2.3.4 =  "dynamic" ),
          ( ipNetToMediaPhysAddress.1.10.0.0.51 = "000010012345" ),
        ( ipNetToMediaType.1.10.0.0.51 =  "static" ))
```


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The SNMP entity supporting the command generator application continues with:

```
 GetBulkRequest [ non-repeaters = 1, max-repetitions = 2 ]
              ( sysUpTime,
                ipNetToMediaPhysAddress.1.10.0.0.51,
                ipNetToMediaType.1.10.0.0.51 )
```

The SNMP entity supporting the command responder application responds with:

```
 Response (( sysUpTime.0 =  "123466" ),
          ( ipNetToMediaPhysAddress.2.10.0.0.15 = "000010987654" ),
          ( ipNetToMediaType.2.10.0.0.15 = "dynamic" ),
          ( ipNetToMediaNetAddress.1.9.2.3.4 = "9.2.3.4" ),
        ( ipRoutingDiscards.0 =  "2" ))
```

Note how, as in the first example, the variable bindings in the response indicate that the end of the table has been reached. The fourth variable binding does so by returning information from the next available column; the fifth variable binding does so by returning information from the first available object lexicographically following the table. This response signals the end of the table to the command generator application.

4.2.4. The Response-PDU

The Response-PDU is generated by an SNMP entity only upon receipt of a GetRequest-PDU, GetNextRequest-PDU, GetBulkRequest-PDU, SetRequest-PDU, or InformRequest-PDU, as described elsewhere in this document.

If the error-status field of the Response-PDU is non-zero, the value fields of the variable bindings in the variable binding list are ignored.

If both the error-status field and the error-index field of the Response-PDU are non-zero, then the value of the error-index field is the index of the variable binding (in the variable-binding list of the corresponding request) for which the request failed. The first variable binding in a request's variable-binding list is index one, the second is index two, etc.

A compliant SNMP entity supporting a command generator application must be able to properly receive and handle a Response-PDU with an error-status field equal to "noSuchName", "badValue", or "readOnly". (See sections 1.3 and 4.3 of [RFC2576].)

Upon receipt of a Response-PDU, the receiving SNMP entity presents its contents to the application which generated the request with the same request-id value. For more details, see [RFC3412].

4.2.5. The SetRequest-PDU

A SetRequest-PDU is generated and transmitted at the request of an application.

Upon receipt of a SetRequest-PDU, the receiving SNMP entity determines the size of a message encapsulating a Response-PDU having the same values in its request-id and variable-bindings fields as the received SetRequest-PDU, and the largest possible sizes of the error-status and error-index fields. If the determined message size is greater than either a local constraint or the maximum message size of the originator, then an alternate Response-PDU is generated, transmitted to the originator of the SetRequest-PDU, and processing of the SetRequest-PDU terminates immediately thereafter. This alternate Response-PDU is formatted with the same values in its request-id field as the received SetRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the SetRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded. Regardless, processing of the SetRequest-PDU terminates.

Otherwise, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU. All fields of the Response-PDU have the same values as the corresponding fields of the received request except as indicated below.

The variable bindings are conceptually processed as a two phase operation. In the first phase, each variable binding is validated; if all validations are successful, then each variable is altered in the second phase. Of course, implementors are at liberty to

implement either the first, or second, or both, of these conceptual phases as multiple implementation phases. Indeed, such multiple implementation phases may be necessary in some cases to ensure consistency.

The following validations are performed in the first phase on each variable binding until they are all successful, or until one fails:

(1) If the variable binding's name specifies an existing or non-existent variable to which this request is/would be denied access because it is/would not be in the appropriate MIB view, then the value of the Response-PDU's error-status field is set to "noAccess", and the value of its error-index field is set to the index of the failed variable binding.

(2) Otherwise, if there are no variables which share the same OBJECT IDENTIFIER prefix as the variable binding's name, and which are able to be created or modified no matter what new value is specified, then the value of the Response-PDU's error-status field is set to "notWritable", and the value of its error-index field is set to the index of the failed variable binding.

(3) Otherwise, if the variable binding's value field specifies, according to the ASN.1 language, a type which is inconsistent with that required for all variables which share the same OBJECT IDENTIFIER prefix as the variable binding's name, then the value of the Response-PDU's error-status field is set to "wrongType", and the value of its error-index field is set to the index of the failed variable binding.

(4) Otherwise, if the variable binding's value field specifies, according to the ASN.1 language, a length which is inconsistent with that required for all variables which share the same OBJECT IDENTIFIER prefix as the variable binding's name, then the value of the Response-PDU's error-status field is set to

"wrongLength", and the value of its error-index field is set to the index of the failed variable binding.

(5) Otherwise, if the variable binding's value field contains an ASN.1 encoding which is inconsistent with that field's ASN.1 tag, then the value of the Response-PDU's error-status field is set to "wrongEncoding", and the value of its error-index field is set to the index of the failed variable binding. (Note that not all implementation strategies will generate this error.)

(6) Otherwise, if the variable binding's value field specifies a value which could under no circumstances be assigned to the variable, then the value of the Response-PDU's error-status field is set to "wrongValue", and the value of its error-index field is set to the index of the failed variable binding.

(7) Otherwise, if the variable binding's name specifies a variable which does not exist and could not ever be created (even though some variables sharing the same OBJECT IDENTIFIER prefix might under some circumstances be able to be created), then the value of the Response-PDU's error-status field is set to "noCreation", and the value of its error-index field is set to the index of the failed variable binding.

(8) Otherwise, if the variable binding's name specifies a variable which does not exist but can not be created under the present circumstances (even though it could be created under other circumstances), then the value of the Response-PDU's error-status field is set to "inconsistentName", and the value of its error-index field is set to the index of the failed variable binding.

(9) Otherwise, if the variable binding's name specifies a variable which exists but can not be modified no matter what new value is specified, then the value of the Response-PDU's error-status field is set to "notWritable", and the value of its error-index field is set to the index of the failed variable binding.

(10) Otherwise, if the variable binding's value field specifies a

value that could under other circumstances be held by the variable, but is presently inconsistent or otherwise unable to be assigned to the variable, then the value of the Response-PDU's error-status field is set to "inconsistentValue", and the value of its error-index field is set to the index of the failed variable binding.

(11) When, during the above steps, the assignment of the value specified by the variable binding's value field to the specified variable requires the allocation of a resource which is presently unavailable, then the value of the Response-PDU's error-status field is set to "resourceUnavailable", and the value of its error-index field is set to the index of the failed variable binding.

(12) If the processing of the variable binding fails for a reason other than listed above, then the value of the Response-PDU's error-status field is set to "genErr", and the value of its error-index field is set to the index of the failed variable binding.

(13) Otherwise, the validation of the variable binding succeeds.

At the end of the first phase, if the validation of all variable bindings succeeded, then the value of the Response-PDU's error-status field is set to "noError" and the value of its error-index field is zero, and processing continues as follows.

For each variable binding in the request, the named variable is created if necessary, and the specified value is assigned to it. Each of these variable assignments occurs as if simultaneously with respect to all other assignments specified in the same request. However, if the same variable is named more than once in a single request, with different associated values, then the actual assignment made to that variable is implementation-specific.

If any of these assignments fail (even after all the previous validations), then all other assignments are undone, and the

Response-PDU is modified to have the value of its error-status field set to "commitFailed", and the value of its error-index field set to the index of the failed variable binding.

If and only if it is not possible to undo all the assignments, then the Response-PDU is modified to have the value of its error-status field set to "undoFailed", and the value of its error-index field is set to zero. Note that implementations are strongly encouraged to take all possible measures to avoid use of either "commitFailed" or "undoFailed" - these two error-status codes are not to be taken as license to take the easy way out in an implementation.

Finally, the generated Response-PDU is encapsulated into a message, and transmitted to the originator of the SetRequest-PDU.

4.2.6. The SNMPv2-Trap-PDU

An SNMPv2-Trap-PDU is generated and transmitted by an SNMP entity on behalf of a notification originator application. The SNMPv2-Trap-PDU is often used to notify a notification receiver application at a logically remote SNMP entity that an event has occurred or that a condition is present. There is no confirmation associated with this notification delivery mechanism.

The destination(s) to which an SNMPv2-Trap-PDU is sent is determined in an implementation-dependent fashion by the SNMP entity. The first two variable bindings in the variable binding list of an SNMPv2-Trap-PDU are sysUpTime.0 [RFC3418] and snmpTrapOID.0 [RFC3418] respectively. If the OBJECTS clause is present in the invocation of the corresponding NOTIFICATION-TYPE macro, then each corresponding variable, as instantiated by this notification, is copied, in order,

to the variable-bindings field. If any additional variables are being included (at the option of the generating SNMP entity), then each is copied to the variable-bindings field.

4.2.7. The InformRequest-PDU

An InformRequest-PDU is generated and transmitted by an SNMP entity

on behalf of a notification originator application. The InformRequest-PDU is often used to notify a notification receiver application that an event has occurred or that a condition is present. This is a confirmed notification delivery mechanism, although there is, of course, no guarantee of delivery.

The destination(s) to which an InformRequest-PDU is sent is specified by the notification originator application. The first two variable bindings in the variable binding list of an InformRequest-PDU are sysUpTime.0 [RFC3418] and snmpTrapOID.0 [RFC3418] respectively. If the OBJECTS clause is present in the invocation of the corresponding NOTIFICATION-TYPE macro, then each corresponding variable, as instantiated by this notification, is copied, in order, to the variable-bindings field. If any additional variables are being included (at the option of the generating SNMP entity), then each is copied to the variable-bindings field.

Upon receipt of an InformRequest-PDU, the receiving SNMP entity determines the size of a message encapsulating a Response-PDU with the same values in its request-id, error-status, error-index and variable-bindings fields as the received InformRequest-PDU. If the determined message size is greater than either a local constraint or the maximum message size of the originator, then an alternate Response-PDU is generated, transmitted to the originator of the InformRequest-PDU, and processing of the InformRequest-PDU terminates immediately thereafter. This alternate Response-PDU is formatted with the same values in its request-id field as the received InformRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the InformRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded. Regardless, processing of the InformRequest-PDU terminates.

Otherwise, the receiving SNMP entity:

(1) presents its contents to the appropriate application;

(2) generates a Response-PDU with the same values in its request-id and variable-bindings fields as the received InformRequest-PDU, with the value of its error-status field set to "noError" and the value of its error-index field set to zero; and

(3) transmits the generated Response-PDU to the originator of the InformRequest-PDU.

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Lauren Heintz
Keith McCloghrie
Russ Mundy
David T. Perkins
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Aleksey Romanov
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Bert Wijnen

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Keith McCloghrie
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Steven Waldbusser

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Bob Stewart

Kaj Tesink
Glenn Waters
Bert Wijnen

7. Security Considerations

The protocol defined in this document by itself does not provide a secure environment. Even if the network itself is secure (for example by using IPSec), there is no control as to who on the secure network is allowed access to management information.

It is recommended that the implementors consider the security features as provided by the SNMPv3 framework. Specifically, the use of the User-based Security Model STD 62, RFC 3414 [RFC3414] and the View-based Access Control Model STD 62, RFC 3415 [RFC3415] is recommended.

It is then a customer/user responsibility to ensure that the SNMP entity is properly configured so that:

- only those principals (users) having legitimate rights can access or modify the values of any MIB objects supported by that entity;

- the occurrence of particular events on the entity will be communicated appropriately;

- the entity responds appropriately and with due credence to events and information that have been communicated to it.

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9. Changes from RFC 1905

These are the changes from RFC 1905:

- Corrected spelling error in copyright statement;
- Updated copyright date;
- Updated with new editor's name and contact information;
- Added notice on intellectual property;

- Cosmetic fixes to layout and typography;
- Added table of contents;
- Title changed;
- Updated document headers and footers;

- Deleted the old clause 2.3, entitled "Access to Management Information";

- Changed the way in which request-id was defined, though with the same ultimate syntax and semantics, to avoid coupling with SMI. This does not affect the protocol in any way;

- Replaced the word "exception" with the word "error" in the old clause 4.1. This does not affect the protocol in any way;

- Deleted the first two paragraphs of the old clause 4.2;

- Clarified the maximum number of variable bindings that an implementation must support in a PDU. This does not affect the protocol in any way;

- Replaced occurrences of "SNMPv2 application" with "application";

- Deleted three sentences in old clause 4.2.3 describing the handling of an impossible situation. This does not affect the protocol in any way;

- Clarified the use of the SNMPv2-Trap-Pdu in the old clause 4.2.6. This does not affect the protocol in any way;

- Aligned description of the use of the InformRequest-Pdu in old clause 4.2.7 with the architecture. This does not affect the protocol in any way;

- Updated references;

- Re-wrote introduction clause;

- Replaced manager/agent/SNMPv2 entity terminology with terminology from RFC 2571. This does not affect the protocol in any way;

- Eliminated IMPORTS from the SMI, replaced with equivalent in-line ASN.1. This does not affect the protocol in any way;

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- Added notes calling attention to two different manifestations of reaching the end of a table in the table walk examples;

- Added content to security considerations clause;

- Updated ASN.1 comment on use of Report-PDU. This does not affect the protocol in any way;

- Updated acknowledgments section;

- Included information on handling of BITS;

- Deleted spurious comma in ASN.1 definition of PDUs;

- Added abstract;

- Made handling of additional variable bindings in informs consistent with that for traps. This was a correction of an editorial oversight, and reflects implementation practice;

- Added reference to RFC 2914.

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      This version of this MIB module is part of RFC 5591;
      see the RFC itself for full legal notices."

    REVISION    "200906090000Z"
    DESCRIPTION "The initial version, published in RFC 5591."
    ::= { mib-2 190 }

-- ------------------------------------------------------------ --
-- subtrees in the SNMP-TSM-MIB
-- ------------------------------------------------------------ --

snmpTsmNotifications OBJECT IDENTIFIER ::= { snmpTsmMIB 0 }
snmpTsmMIBObjects    OBJECT IDENTIFIER ::= { snmpTsmMIB 1 }
snmpTsmConformance   OBJECT IDENTIFIER ::= { snmpTsmMIB 2 }

-- ------------------------------------------------------------
-- Objects
-- ------------------------------------------------------------

-- Statistics for the Transport Security Model

snmpTsmStats        OBJECT IDENTIFIER ::= { snmpTsmMIBObjects 1 }

snmpTsmInvalidCaches OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION "The number of incoming messages dropped because the

                 tmStateReference referred to an invalid cache.
                "
    ::= { snmpTsmStats 1 }

snmpTsmInadequateSecurityLevels OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION "The number of incoming messages dropped because
                 the securityLevel asserted by the Transport Model was
```

```
            less than the securityLevel requested by the
            application.
           "
  ::= { snmpTsmStats 2 }

snmpTsmUnknownPrefixes OBJECT-TYPE
  SYNTAX       Counter32
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION "The number of messages dropped because
            snmpTsmConfigurationUsePrefix was set to true and
            there is no known prefix for the specified transport
            domain.
           "
  ::= { snmpTsmStats 3 }

snmpTsmInvalidPrefixes OBJECT-TYPE
  SYNTAX       Counter32
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION "The number of messages dropped because
            the securityName associated with an outgoing message
            did not contain a valid transport domain prefix.
           "
  ::= { snmpTsmStats 4 }

-- ----------------------------------------------------------
-- Configuration
-- ----------------------------------------------------------

-- Configuration for the Transport Security Model

snmpTsmConfiguration   OBJECT IDENTIFIER ::= { snmpTsmMIBObjects 2 }

snmpTsmConfigurationUsePrefix OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION "If this object is set to true, then securityNames
            passing to and from the application are expected to
            contain a transport-domain-specific prefix.  If this
            object is set to true, then a domain-specific prefix
            will be added by the TSM to the securityName for
            incoming messages and removed from the securityName
            when processing outgoing messages.  Transport domains
            and prefixes are maintained in a registry by IANA.
            This object SHOULD persist across system reboots.
           "
```

```
  DEFVAL { false }
  ::= { snmpTsmConfiguration 1 }

-- ----------------------------------------------------------
-- snmpTsmMIB - Conformance Information
-- ----------------------------------------------------------

snmpTsmCompliances OBJECT IDENTIFIER ::= { snmpTsmConformance 1 }

snmpTsmGroups      OBJECT IDENTIFIER ::= { snmpTsmConformance 2 }

-- ----------------------------------------------------------
-- Compliance statements
-- ----------------------------------------------------------

snmpTsmCompliance MODULE-COMPLIANCE
  STATUS      current
  DESCRIPTION "The compliance statement for SNMP engines that support
               the SNMP-TSM-MIB.
              "
  MODULE
     MANDATORY-GROUPS { snmpTsmGroup }
  ::= { snmpTsmCompliances 1 }

-- ----------------------------------------------------------
-- Units of conformance
-- ----------------------------------------------------------
snmpTsmGroup OBJECT-GROUP
  OBJECTS {
     snmpTsmInvalidCaches,
     snmpTsmInadequateSecurityLevels,
     snmpTsmUnknownPrefixes,
     snmpTsmInvalidPrefixes,
     snmpTsmConfigurationUsePrefix
  }
  STATUS      current
  DESCRIPTION "A collection of objects for maintaining
               information of an SNMP engine that implements

               the SNMP Transport Security Model.
              "
  ::= { snmpTsmGroups 2 }

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2.247 Net-SSH-Perl 1.34

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2.248 Net-SSLeay 1.55

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from /lib/Net/SSLeay.pm

Net::SSLeay.pm - Perl module for using Eric Young's implementation of SSL
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#

$Id: SSLeay.pm 378 2013-06-07 22:29:53Z mikem-guest $
#
Change data removed from here. See Changes
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from META.yml

<snip>

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<snip>

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```

2.249 Net-Telnet 3.03

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from /lib/Net/Telnet.pm

```
package Net::Telnet;

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## See user documentation at the end of this file.  Search for =head

use strict;
require 5.002;

## Module export.
use vars qw(@EXPORT_OK);
@EXPORT_OK = qw(TELNET_IAC TELNET_DONT TELNET_DO TELNET_WONT TELNET_WILL
  TELNET_SB TELNET_GA TELNET_EL TELNET_EC TELNET_AYT TELNET_AO
  TELNET_IP TELNET_BREAK TELNET_DM TELNET_NOP TELNET_SE
  TELNET_EOR TELNET_ABORT TELNET_SUSP TELNET_EOF TELNET_SYNCH
  TELOPT_BINARY TELOPT_ECHO TELOPT_RCP TELOPT_SGA TELOPT_NAMS
  TELOPT_STATUS TELOPT_TM TELOPT_RCTE TELOPT_NAOL TELOPT_NAOP
```

```
  TELOPT_NAOCRD TELOPT_NAOHTS TELOPT_NAOHTD TELOPT_NAOFFD
  TELOPT_NAOVTS TELOPT_NAOVTD TELOPT_NAOLFD TELOPT_XASCII
  TELOPT_LOGOUT TELOPT_BM TELOPT_DET TELOPT_SUPDUP
  TELOPT_SUPDUPOUTPUT TELOPT_SNDLOC TELOPT_TTYPE TELOPT_EOR
  TELOPT_TUID TELOPT_OUTMRK TELOPT_TTYLOC TELOPT_3270REGIME
  TELOPT_X3PAD TELOPT_NAWS TELOPT_TSPEED TELOPT_LFLOW
  TELOPT_LINEMODE TELOPT_XDISPLOC TELOPT_OLD_ENVIRON
  TELOPT_AUTHENTICATION TELOPT_ENCRYPT TELOPT_NEW_ENVIRON
  TELOPT_EXOPL);

## Module import.
use Exporter ();
use Socket qw(AF_INET SOCK_STREAM inet_aton sockaddr_in);
use Symbol qw(qualify);

## Base classes.
use vars qw(@ISA);
@ISA = qw(Exporter);
if (&_io_socket_include) {  # successfully required module IO::Socket
   push @ISA, "IO::Socket::INET";
}
else {  # perl version < 5.004
   require FileHandle;
   push @ISA, "FileHandle";
}

## Global variables.
use vars qw($VERSION @Telopts);
$VERSION = "3.03";
@Telopts = ("BINARY", "ECHO", "RCP", "SUPPRESS GO AHEAD", "NAME", "STATUS",
     "TIMING MARK", "RCTE", "NAOL", "NAOP", "NAOCRD", "NAOHTS",
     "NAOHTD", "NAOFFD", "NAOVTS", "NAOVTD", "NAOLFD", "EXTEND ASCII",
     "LOGOUT", "BYTE MACRO", "DATA ENTRY TERMINAL", "SUPDUP",
     "SUPDUP OUTPUT", "SEND LOCATION", "TERMINAL TYPE", "END OF RECORD",
     "TACACS UID", "OUTPUT MARKING", "TTYLOC", "3270 REGIME", "X.3 PAD",
     "NAWS", "TSPEED", "LFLOW", "LINEMODE", "XDISPLOC", "OLD-ENVIRON",
     "AUTHENTICATION", "ENCRYPT", "NEW-ENVIRON");


############################## Public Methods ############################


sub new {
   my ($class) = @_;
   my (
 $errmode,
 $fh_open,
 $host,
```

```
$self,
%args,
);
  local $_;

  ## Create a new object with defaults.
  $self = $class->SUPER::new;
  *$self->{net_telnet} = {
bin_mode       => 0,
blksize        => &_optimal_blksize(),
buf            => "",
cmd_prompt     => '/[\$%#>] $/',
cmd_rm_mode    => "auto",
dumplog        => '',
eofile         => 1,
errormode      => "die",
errormsg       => "",
fdmask         => '',
host           => "localhost",
inputlog       => '',
last_line      => "",
last_prompt      => "",
maxbufsize     => 1_048_576,
num_wrote      => 0,
ofs            => "",
opened         => '',
opt_cback      => '',
opt_log        => '',
opts           => {},
ors            => "\n",
outputlog      => '',
pending_errormsg => "",
port           => 23,
pushback_buf   => "",
rs             => "\n",
subopt_cback   => '',
telnet_mode    => 1,
time_out       => 10,
timedout       => '',
unsent_opts    => "",
  };

  ## Indicate that we'll accept an offer from remote side for it to echo
  ## and suppress go aheads.
  &_opt_accept($self,
  { option    => &TELOPT_ECHO,
    is_remote => 1,
    is_enable => 1 },
```

```
  { option    => &TELOPT_SGA,
    is_remote => 1,
    is_enable => 1 },
  );

  ## Parse the args.
  if (@_ == 2) {  # one positional arg given
$host = $_[1];
  }
  elsif (@_ > 2) {  # named args given
## Get the named args.
(undef, %args) = @_;

## Parse all other named args.
foreach (keys %args) {
    if (/^-?binmode$/i) {
 $self->binmode($args{$_});
    }
    elsif (/^-?cmd_remove_mode$/i) {
 $self->cmd_remove_mode($args{$_});
    }
    elsif (/^-?dump_log$/i) {
 $self->dump_log($args{$_});
    }
    elsif (/^-?errmode$/i) {
 $errmode = $args{$_};
    }
    elsif (/^-?fhopen$/i) {
 $fh_open = $args{$_};
    }
    elsif (/^-?host$/i) {
 $host = $args{$_};
    }
    elsif (/^-?input_log$/i) {
 $self->input_log($args{$_});
    }
    elsif (/^-?input_record_separator$/i or /^-?rs$/i) {
 $self->input_record_separator($args{$_});
    }
    elsif (/^-?option_log$/i) {
 $self->option_log($args{$_});
    }
    elsif (/^-?output_log$/i) {
 $self->output_log($args{$_});
    }
    elsif (/^-?output_record_separator$/i or /^-?ors$/i) {
 $self->output_record_separator($args{$_});
    }
```

```
    elsif (/^-?port$/i) {
 $self->port($args{$_});
    }
    elsif (/^-?prompt$/i) {
 $self->prompt($args{$_});
    }
    elsif (/^-?telnetmode$/i) {
 $self->telnetmode($args{$_});
    }
    elsif (/^-?timeout$/i) {
 $self->timeout($args{$_});
    }
    else {
 &_croak($self, "bad named parameter \"$_\" given " .
  "to " . ref($self) . "::new()");
    }
}
  }

  if (defined $errmode) {  # user wants to set errmode
 $self->errmode($errmode);
  }

  if (defined $fh_open) {  # user wants us to attach to existing filehandle
 $self->fhopen($fh_open)
    or return;
  }
  elsif (defined $host) {  # user wants us to open a connection to host
 $self->host($host);
 $self->open
    or return;
  }

  $self;
} # end sub new


sub DESTROY {
} # end sub DESTROY


sub binmode {
  my ($self, $mode) = @_;
  my (
 $prev,
 $s,
 );
```

```
  $s = *$self->{net_telnet};
  $prev = $s->{bin_mode};

  if (@_ >= 2) {
 unless (defined $mode) {
    $mode = 0;
 }

 $s->{bin_mode} = $mode;
  }

  $prev;
} # end sub binmode


sub break {
  my ($self) = @_;
  my $s = *$self->{net_telnet};
  my $break_cmd = "\xff\xf3";

  $s->{timedout} = '';

  &_put($self, \$break_cmd, "break");
} # end sub break


sub buffer {
  my ($self) = @_;
  my $s = *$self->{net_telnet};

  \$s->{buf};
} # end sub buffer


sub buffer_empty {
  my ($self) = @_;
  my (
 $buffer,
 );

  $buffer = $self->buffer;
  $$buffer = "";
} # end sub buffer_empty


sub close {
  my ($self) = @_;
  my $s = *$self->{net_telnet};
```

```
  $s->{eofile} = 1;
  $s->{opened} = '';
  close $self
 if defined fileno($self);

  1;
} # end sub close


sub cmd {
  my ($self, @args) = @_;
  my (
 $cmd_remove_mode,
 $errmode,
 $firstpos,
 $last_prompt,
 $lastpos,
 $lines,
 $ors,
 $output,
 $output_ref,
 $prompt,
 $remove_echo,
 $rs,
 $rs_len,
 $s,
 $telopt_echo,
 $timeout,
 %args,
 );
  my $cmd = "";
  local $_;

  ## Init.
  $self->timed_out('');
  $self->last_prompt("");
  $s = *$self->{net_telnet};
  $output = [];
  $cmd_remove_mode = $self->cmd_remove_mode;
  $errmode = $self->errmode;
  $ors = $self->output_record_separator;
  $prompt = $self->prompt;
  $rs = $self->input_record_separator;
  $timeout = $self->timeout;

  ## Parse args.
  if (@_ == 2) {  # one positional arg given
```

```
$cmd = $_[1];
  }
  elsif (@_ > 2) {  # named args given
## Get the named args.
(undef, %args) = @_;

## Parse the named args.
foreach (keys %args) {
    if (/^-?cmd_remove/i) {
 $cmd_remove_mode = &_parse_cmd_remove_mode($self, $args{$_});
    }
    elsif (/^-?errmode$/i) {
 $errmode = &_parse_errmode($self, $args{$_});
    }
    elsif (/^-?input_record_separator$/i or /^-?rs$/i) {
 $rs = &_parse_input_record_separator($self, $args{$_});
    }
    elsif (/^-?output$/i) {
 $output_ref = $args{$_};
 if (defined($output_ref) and ref($output_ref) eq "ARRAY") {
     $output = $output_ref;
 }
    }
    elsif (/^-?output_record_separator$/i or /^-?ors$/i) {
 $ors = $self->output_record_separator($args{$_});
    }
    elsif (/^-?prompt$/i) {
 $prompt = &_parse_prompt($self, $args{$_});
    }
    elsif (/^-?string$/i) {
 $cmd = $args{$_};
    }
    elsif (/^-?timeout$/i) {
 $timeout = &_parse_timeout($self, $args{$_});
    }
    else {
 &_croak($self, "bad named parameter \"$_\" given " .
  "to " . ref($self) . "::cmd()");
    }
}
  }

  ## Override some user settings.
  local $s->{errormode} = "return";
  local $s->{time_out} = &_endtime($timeout);
  $self->errmsg("");

  ## Send command and wait for the prompt.
```

```
  $self->put($cmd . $ors)
and ($lines, $last_prompt) = $self->waitfor($prompt);

  ## Check for failure.
  $s->{errormode} = $errmode;
  return $self->error("command timed-out") if $self->timed_out;
  return $self->error($self->errmsg) if $self->errmsg ne "";

  ## Save the most recently matched prompt.
  $self->last_prompt($last_prompt);

  ## Split lines into an array, keeping record separator at end of line.
  $firstpos = 0;
  $rs_len = length $rs;
  while (($lastpos = index($lines, $rs, $firstpos)) > -1) {
push(@$output,
    substr($lines, $firstpos, $lastpos - $firstpos + $rs_len));
$firstpos = $lastpos + $rs_len;
  }

  if ($firstpos < length $lines) {
push @$output, substr($lines, $firstpos);
  }

  ## Determine if we should remove the first line of output based
  ## on the assumption that it's an echoed back command.
  if ($cmd_remove_mode eq "auto") {
## See if remote side told us they'd echo.
$telopt_echo = $self->option_state(&TELOPT_ECHO);
$remove_echo = $telopt_echo->{remote_enabled};
  }
  else {  # user explicitly told us how many lines to remove.
$remove_echo = $cmd_remove_mode;
  }

  ## Get rid of possible echo back command.
  while ($remove_echo--) {
shift @$output;
  }

  ## Ensure at least a null string when there's no command output - so
  ## "true" is returned in a list context.
  unless (@$output) {
@$output = ("");
  }

  ## Return command output via named arg, if requested.
  if (defined $output_ref) {
```

```
 if (ref($output_ref) eq "SCALAR") {
    $$output_ref = join "", @$output;
 }
 elsif (ref($output_ref) eq "HASH") {
    %$output_ref = @$output;
 }
  }

  wantarray ? @$output : 1;
} # end sub cmd


sub cmd_remove_mode {
  my ($self, $mode) = @_;
  my (
 $prev,
 $s,
 );

  $s = *$self->{net_telnet};
  $prev = $s->{cmd_rm_mode};

  if (@_ >= 2) {
 $s->{cmd_rm_mode} = &_parse_cmd_remove_mode($self, $mode);
  }

  $prev;
} # end sub cmd_remove_mode


sub dump_log {
  my ($self, $name) = @_;
  my (
 $fh,
 $s,
 );

  $s = *$self->{net_telnet};
  $fh = $s->{dumplog};

  if (@_ >= 2) {
 unless (defined $name) {
    $name = "";
 }

 $fh = &_fname_to_handle($self, $name)
    or return;
 $s->{dumplog} = $fh;
```

```
  }

  $fh;
} # end sub dump_log


sub eof {
  my ($self) = @_;

  *$self->{net_telnet}{eofile};
} # end sub eof


sub errmode {
  my ($self, $mode) = @_;
  my (
 $prev,
 $s,
 );

  $s = *$self->{net_telnet};
  $prev = $s->{errormode};

  if (@_ >= 2) {
 $s->{errormode} = &_parse_errmode($self, $mode);
  }

  $prev;
} # end sub errmode


sub errmsg {
  my ($self, @errmsgs) = @_;
  my (
 $prev,
 $s,
 );

  $s = *$self->{net_telnet};
  $prev = $s->{errormsg};

  if (@_ >= 2) {
 $s->{errormsg} = join "", @errmsgs;
  }

  $prev;
} # end sub errmsg
```

```
sub error {
  my ($self, @errmsg) = @_;
  my (
$errmsg,
$func,
$mode,
$s,
@args,
);
  local $_;

  $s = *$self->{net_telnet};

  if (@_ >= 2) {
## Put error message in the object.
$errmsg = join "", @errmsg;
$s->{errormsg} = $errmsg;

## Do the error action as described by error mode.
$mode = $s->{errormode};
if (ref($mode) eq "CODE") {
    &$mode($errmsg);
    return;
}
elsif (ref($mode) eq "ARRAY") {
    ($func, @args) = @$mode;
    &$func(@args);
    return;
}
elsif ($mode =~ /^return$/i) {
    return;
}
else {  # die
    if ($errmsg =~ /\n$/) {
 die $errmsg;
    }
    else {
 ## Die and append caller's line number to message.
 &_croak($self, $errmsg);
    }
}
  }
  else {
return $s->{errormsg} ne "";
  }
} # end sub error
```

```
sub fhopen {
  my ($self, $fh) = @_;
  my (
 $globref,
 $s,
 );

  ## Convert given filehandle to a typeglob reference, if necessary.
  $globref = &_qualify_fh($self, $fh);

  ## Ensure filehandle is already open.
  return $self->error("fhopen filehandle isn't already open")
 unless defined($globref) and defined(fileno $globref);

  ## Ensure we're closed.
  $self->close;

  ## Save our private data.
  $s = *$self->{net_telnet};

  ## Switch ourself with the given filehandle.
  *$self = *$globref;

  ## Restore our private data.
  *$self->{net_telnet} = $s;

  ## Re-initialize ourself.
  select((select($self), $|=1)[$[]);  # don't buffer writes
  $s = *$self->{net_telnet};
  $s->{blksize} = &_optimal_blksize((stat $self)[11]);
  $s->{buf} = "";
  $s->{eofile} = '';
  $s->{errormsg} = "";
  vec($s->{fdmask}='', fileno($self), 1) = 1;
  $s->{host} = "";
  $s->{last_line} = "";
  $s->{last_prompt} = "";
  $s->{num_wrote} = 0;
  $s->{opened} = 1;
  $s->{pending_errormsg} = "";
  $s->{port} = '';
  $s->{pushback_buf} = "";
  $s->{timedout} = '';
  $s->{unsent_opts} = "";
  &_reset_options($s->{opts});

  1;
```

```
} # end sub fhopen


sub get {
  my ($self, %args) = @_;
  my (
 $binmode,
 $endtime,
 $errmode,
 $line,
 $s,
 $telnetmode,
 $timeout,
 );
  local $_;

  ## Init.
  $s = *$self->{net_telnet};
  $timeout = $s->{time_out};
  $s->{timedout} = '';
  return if $s->{eofile};

  ## Parse the named args.
  foreach (keys %args) {
 if (/^-?binmode$/i) {
    $binmode = $args{$_};
    unless (defined $binmode) {
 $binmode = 0;
    }
 }
 elsif (/^-?errmode$/i) {
    $errmode = &_parse_errmode($self, $args{$_});
 }
 elsif (/^-?telnetmode$/i) {
    $telnetmode = $args{$_};
    unless (defined $telnetmode) {
 $telnetmode = 0;
    }
 }
 elsif (/^-?timeout$/i) {
    $timeout = &_parse_timeout($self, $args{$_});
 }
 else {
    &_croak($self, "bad named parameter \"$_\" given " .
     "to " . ref($self) . "::get()");
 }
  }
```

```
  ## If any args given, override corresponding instance data.
  local $s->{errormode} = $errmode
if defined $errmode;
  local $s->{bin_mode} = $binmode
if defined $binmode;
  local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;

  ## Set wall time when we time out.
  $endtime = &_endtime($timeout);

  ## Try to send any waiting option negotiation.
  if (length $s->{unsent_opts}) {
&_flush_opts($self);
  }

  ## Try to read just the waiting data using return error mode.
  {
local $s->{errormode} = "return";
$s->{errormsg} = "";
&_fillbuf($self, $s, 0);
  }

  ## We're done if we timed-out and timeout value is set to "poll".
  return $self->error($s->{errormsg})
if ($s->{timedout} and defined($timeout) and $timeout == 0
    and !length $s->{buf});

  ## We're done if we hit an error other than timing out.
  if ($s->{errormsg} and !$s->{timedout}) {
if (!length $s->{buf}) {
    return $self->error($s->{errormsg});
}
else {  # error encountered but there's some data in buffer
    $s->{pending_errormsg} = $s->{errormsg};
}
  }

  ## Clear time-out error from first read.
  $s->{timedout} = '';
  $s->{errormsg} = "";

  ## If buffer is still empty, try to read according to user's timeout.
  if (!length $s->{buf}) {
&_fillbuf($self, $s, $endtime)
    or do {
 return if $s->{timedout};
```

```
 ## We've reached end-of-file.
 $self->close;
 return;
   };
  }

  ## Extract chars from buffer.
  $line = $s->{buf};
  $s->{buf} = "";

  $line;
} # end sub get


sub getline {
  my ($self, %args) = @_;
  my (
 $binmode,
 $endtime,
 $errmode,
 $len,
 $line,
 $offset,
 $pos,
 $rs,
 $s,
 $telnetmode,
 $timeout,
 );
  local $_;

  ## Init.
  $s = *$self->{net_telnet};
  $s->{timedout} = '';
  return if $s->{eofile};
  $rs = $s->{rs};
  $timeout = $s->{time_out};

  ## Parse the named args.
  foreach (keys %args) {
 if (/^-?binmode$/i) {
    $binmode = $args{$_};
    unless (defined $binmode) {
 $binmode = 0;
    }
 }
 elsif (/^-?errmode$/i) {
    $errmode = &_parse_errmode($self, $args{$_});
```

```
}
elsif (/^-?input_record_separator$/i or /^-?rs$/i) {
    $rs = &_parse_input_record_separator($self, $args{$_});
}
elsif (/^-?telnetmode$/i) {
    $telnetmode = $args{$_};
    unless (defined $telnetmode) {
 $telnetmode = 0;
    }
}
elsif (/^-?timeout$/i) {
    $timeout = &_parse_timeout($self, $args{$_});
}
else {
    &_croak($self, "bad named parameter \"$_\" given " .
     "to " . ref($self) . "::getline()");
}
  }

  ## If any args given, override corresponding instance data.
  local $s->{bin_mode} = $binmode
if defined $binmode;
  local $s->{errormode} = $errmode
if defined $errmode;
  local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;

  ## Set wall time when we time out.
  $endtime = &_endtime($timeout);

  ## Try to send any waiting option negotiation.
  if (length $s->{unsent_opts}) {
&_flush_opts($self);
  }

  ## Keep reading into buffer until end-of-line is read.
  $offset = 0;
  while (($pos = index($s->{buf}, $rs, $offset)) == -1) {
$offset = length $s->{buf};
&_fillbuf($self, $s, $endtime)
    or do {
 return if $s->{timedout};

 ## We've reached end-of-file.
 $self->close;
 if (length $s->{buf}) {
     return $s->{buf};
 }
```

```
 else {
    return;
 }
   };
  }

  ## Extract line from buffer.
  $len = $pos + length $rs;
  $line = substr($s->{buf}, 0, $len);
  substr($s->{buf}, 0, $len) = "";

  $line;
} # end sub getline


sub getlines {
  my ($self, %args) = @_;
  my (
 $binmode,
 $errmode,
 $line,
 $rs,
 $s,
 $telnetmode,
 $timeout,
 );
  my $all = 1;
  my @lines = ();
  local $_;

  ## Init.
  $s = *$self->{net_telnet};
  $s->{timedout} = '';
  return if $s->{eofile};
  $timeout = $s->{time_out};

  ## Parse the named args.
  foreach (keys %args) {
 if (/^-?all$/i) {
    $all = $args{$_};
    unless (defined $all) {
 $all = '';
    }
 }
 elsif (/^-?binmode$/i) {
    $binmode = $args{$_};
    unless (defined $binmode) {
 $binmode = 0;
```

```
    }
}
elsif (/^-?errmode$/i) {
    $errmode = &_parse_errmode($self, $args{$_});
}
elsif (/^-?input_record_separator$/i or /^-?rs$/i) {
    $rs = &_parse_input_record_separator($self, $args{$_});
}
elsif (/^-?telnetmode$/i) {
    $telnetmode = $args{$_};
    unless (defined $telnetmode) {
 $telnetmode = 0;
    }
}
elsif (/^-?timeout$/i) {
    $timeout = &_parse_timeout($self, $args{$_});
}
else {
    &_croak($self, "bad named parameter \"$_\" given " .
     "to " . ref($self) . "::getlines()");
}
  }

  ## If any args given, override corresponding instance data.
  local $s->{bin_mode} = $binmode
if defined $binmode;
  local $s->{errormode} = $errmode
if defined $errmode;
  local $s->{rs} = $rs
if defined $rs;
  local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;
  local $s->{time_out} = &_endtime($timeout);

  ## User requested only the currently available lines.
  if (! $all) {
return &_next_getlines($self, $s);
  }

  ## Read lines until eof or error.
  while (1) {
$line = $self->getline
    or last;
push @lines, $line;
  }

  ## Check for error.
  return if ! $self->eof;
```

```
  @lines;
} # end sub getlines


sub host {
  my ($self, $host) = @_;
  my (
$prev,
$s,
);

  $s = *$self->{net_telnet};
  $prev = $s->{host};

  if (@_ >= 2) {
unless (defined $host) {
    $host = "";
}

$s->{host} = $host;
  }

  $prev;
} # end sub host


sub input_log {
  my ($self, $name) = @_;
  my (
$fh,
$s,
);

  $s = *$self->{net_telnet};
  $fh = $s->{inputlog};

  if (@_ >= 2) {
unless (defined $name) {
    $name = "";
}

$fh = &_fname_to_handle($self, $name)
    or return;
$s->{inputlog} = $fh;
  }

  $fh;
```

```
} # end sub input_log


sub input_record_separator {
  my ($self, $rs) = @_;
  my (
 $prev,
 $s,
 );

  $s = *$self->{net_telnet};
  $prev = $s->{rs};

  if (@_ >= 2) {
 $s->{rs} = &_parse_input_record_separator($self, $rs);
  }

  $prev;
} # end sub input_record_separator


sub last_prompt {
  my ($self, $string) = @_;
  my (
 $prev,
 $s,
 );

  $s = *$self->{net_telnet};
  $prev = $s->{last_prompt};

  if (@_ >= 2) {
 unless (defined $string) {
    $string = "";
 }

 $s->{last_prompt} = $string;
  }

  $prev;
} # end sub last_prompt


sub lastline {
  my ($self, $line) = @_;
  my (
 $prev,
 $s,
```

```
);

  $s = *$self->{net_telnet};
  $prev = $s->{last_line};

  if (@_ >= 2) {
 unless (defined $line) {
    $line = "";
 }

 $s->{last_line} = $line;
  }

  $prev;
} # end sub lastline


sub login {
  my ($self) = @_;
  my (
 $errmode,
 $error,
 $is_passwd_arg,
 $is_username_arg,
 $lastline,
 $match,
 $ors,
 $passwd,
 $prematch,
 $prompt,
 $s,
 $timeout,
 $username,
 %args,
 );
  local $_;

  ## Init.
  $self->timed_out('');
  $self->last_prompt("");
  $s = *$self->{net_telnet};
  $timeout = $self->timeout;
  $ors = $self->output_record_separator;
  $prompt = $self->prompt;

  ## Parse args.
  if (@_ == 3) {  # just username and passwd given
 $username = $_[1];
```

```
$passwd = $_[2];

$is_username_arg = 1;
$is_passwd_arg = 1;
  }
  else {  # named args given
## Get the named args.
(undef, %args) = @_;

## Parse the named args.
foreach (keys %args) {
   if (/^-?errmode$/i) {
 $errmode = &_parse_errmode($self, $args{$_});
   }
   elsif (/^-?name$/i) {
 $username = $args{$_};
 unless (defined $username) {
    $username = "";
 }

 $is_username_arg = 1;
   }
   elsif (/^-?pass/i) {
 $passwd = $args{$_};
 unless (defined $passwd) {
    $passwd = "";
 }

 $is_passwd_arg = 1;
   }
   elsif (/^-?prompt$/i) {
 $prompt = &_parse_prompt($self, $args{$_});
   }
   elsif (/^-?timeout$/i) {
 $timeout = &_parse_timeout($self, $args{$_});
   }
   else {
 &_croak($self, "bad named parameter \"$_\" given ",
  "to " . ref($self) . "::login()");
   }
}
  }

  ## Ensure both username and password argument given.
  &_croak($self,"Name argument not given to " . ref($self) . "::login()")
unless $is_username_arg;
  &_croak($self,"Password argument not given to " . ref($self) . "::login()")
unless $is_passwd_arg;
```

```
  ## Override some user settings.
  local $s->{errormode} = $errmode
if defined $errmode;
  local $s->{time_out} = &_endtime($timeout);

  ## Create a subroutine to generate an error.
  $error
= sub {
    my ($errmsg) = @_;

    if ($self->timed_out) {
 return $self->error($errmsg);
    }
    elsif ($self->eof) {
 ($lastline = $self->lastline) =~ s/\n+//;
 return $self->error($errmsg, ": ", $lastline);
    }
    else {
 return $self->error($self->errmsg);
    }
};


  return $self->error("login failed: filehandle isn't open")
if $self->eof;

  ## Wait for login prompt.
  $self->waitfor(Match => '/login[: ]*$/i',
    Match => '/username[: ]*$/i',
    Errmode => "return")
or do {
    return &$error("eof read waiting for login prompt")
 if $self->eof;
    return &$error("timed-out waiting for login prompt");
};

  ## Delay sending response because of bug in Linux login program.
  &_sleep(0.01);

  ## Send login name.
  $self->put(String => $username . $ors,
      Errmode => "return")
or return &$error("login disconnected");

  ## Wait for password prompt.
  $self->waitfor(Match => '/password[: ]*$/i',
    Errmode => "return")
```

```
 or do {
    return &$error("eof read waiting for password prompt")
  if $self->eof;
    return &$error("timed-out waiting for password prompt");
 };

  ## Delay sending response because of bug in Linux login program.
  &_sleep(0.01);

  ## Send password.
  $self->put(String => $passwd . $ors,
       Errmode => "return")
 or return &$error("login disconnected");

  ## Wait for command prompt or another login prompt.
  ($prematch, $match) = $self->waitfor(Match => '/login[: ]*$/i',
     Match => '/username[: ]*$/i',
     Match => $prompt,
     Errmode => "return")
 or do {
    return &$error("eof read waiting for command prompt")
  if $self->eof;
    return &$error("timed-out waiting for command prompt");
 };

  ## It's a bad login if we got another login prompt.
  return $self->error("login failed: bad name or password")
 if $match =~ /login[: ]*$/i or $match =~ /username[: ]*$/i;

  ## Save the most recently matched command prompt.
  $self->last_prompt($match);

  1;
} # end sub login


sub max_buffer_length {
  my ($self, $maxbufsize) = @_;
  my (
 $prev,
 $s,
 );
  my $minbufsize = 512;

  $s = *$self->{net_telnet};
  $prev = $s->{maxbufsize};

  if (@_ >= 2) {
```

```
 ## Ensure a positive integer value.
 unless (defined $maxbufsize
  and $maxbufsize =~ /^\d+$/
  and $maxbufsize)
 {
     &_carp($self, "ignoring bad Max_buffer_length " .
     "argument \"$maxbufsize\": it's not a positive integer");
     $maxbufsize = $prev;
 }

 ## Adjust up values that are too small.
 if ($maxbufsize < $minbufsize) {
     $maxbufsize = $minbufsize;
 }

 $s->{maxbufsize} = $maxbufsize;
   }

   $prev;
} # end sub max_buffer_length


## Make ofs() synonymous with output_field_separator().
*ofs = \&output_field_separator;


sub open {
   my ($self) = @_;
   my (
 $errmode,
 $errno,
 $host,
 $ip_addr,
 $port,
 $s,
 $timeout,
 %args,
 );
   local $_;

   ## Init.
   $s = *$self->{net_telnet};
   $timeout = $s->{time_out};
   $s->{timedout} = '';

   if (@_ == 2) {  # one positional arg given
 $self->host($_[1]);
   }
```

```
  elsif (@_ > 2) {  # named args given
## Get the named args.
(undef, %args) = @_;

## Parse the named args.
foreach (keys %args) {
   if (/^-?errmode$/i) {
 $errmode = &_parse_errmode($self, $args{$_});
   }
   elsif (/^-?host$/i) {
 $self->host($args{$_});
   }
   elsif (/^-?port$/i) {
 $self->port($args{$_})
    or return;
   }
   elsif (/^-?timeout$/i) {
 $timeout = &_parse_timeout($self, $args{$_});
   }
   else {
 &_croak($self, "bad named parameter \"$_\" given ",
  "to " . ref($self) . "::open()");
   }
}
  }

  ## If any args given, override corresponding instance data.
  local $s->{errormode} = $errmode
if defined $errmode;

  ## Get host and port.
  $host = $self->host;
  $port = $self->port;

  ## Ensure we're already closed.
  $self->close;

  ## Connect with or without a timeout.
  if (defined($timeout) and &_have_alarm) {  # use a timeout
## Convert possible absolute timeout to relative timeout.
if ($timeout >= $^T) {  # it's an absolute time
   $timeout = $timeout - time;
}

## Ensure a valid timeout value for alarm.
if ($timeout < 1) {
   $timeout = 1;
}
```

```
$timeout = int($timeout + 1.5);

## Connect to server, timing out if it takes too long.
eval {
   ## Turn on timer.
   local $SIG{"__DIE__"} = "DEFAULT";
   local $SIG{ALRM} = sub { die "timed-out\n" };
   alarm $timeout;

   ## Lookup server's IP address.
   $ip_addr = inet_aton $host
 or die "unknown remote host: $host\n";

   ## Create a socket and attach the filehandle to it.
   socket $self, AF_INET, SOCK_STREAM, 0
 or die "problem creating socket: $!\n";

   ## Open connection to server.
   connect $self, sockaddr_in($port, $ip_addr)
 or die "problem connecting to \"$host\", port $port: $!\n";
};
alarm 0;

## Check for error.
if ($@ =~ /^timed-out$/) {  # time out failure
   $s->{timedout} = 1;
   $self->close;
   if (!$ip_addr) {
 return $self->error("unknown remote host: $host: ",
      "name lookup timed-out");
   }
   else {
 return $self->error("problem connecting to \"$host\", ",
      "port $port: connect timed-out");
   }
}
elsif ($@) {  # hostname lookup or connect failure
   $self->close;
   chomp $@;
   return $self->error($@);
}
  }
  else {  # don't use a timeout
$timeout = undef;

## Lookup server's IP address.
$ip_addr = inet_aton $host
   or return $self->error("unknown remote host: $host");
```

```
 ## Create a socket and attach the filehandle to it.
 socket $self, AF_INET, SOCK_STREAM, 0
    or return $self->error("problem creating socket: $!");

 ## Open connection to server.
 connect $self, sockaddr_in($port, $ip_addr)
    or do {
 $errno = "$!";
 $self->close;
 return $self->error("problem connecting to \"$host\", ",
      "port $port: $errno");
   };
  }

  select((select($self), $|=1)[$[]);  # don't buffer writes
  $s->{blksize} = &_optimal_blksize((stat $self)[11]);
  $s->{buf} = "";
  $s->{eofile} = '';
  $s->{errormsg} = "";
  vec($s->{fdmask}='', fileno($self), 1) = 1;
  $s->{last_line} = "";
  $s->{num_wrote} = 0;
  $s->{opened} = 1;
  $s->{pending_errormsg} = "";
  $s->{pushback_buf} = "";
  $s->{timedout} = '';
  $s->{unsent_opts} = "";
  &_reset_options($s->{opts});

  1;
} # end sub open


sub option_accept {
  my ($self, @args) = @_;
  my (
 $arg,
 $option,
 $s,
 @opt_args,
 );
  local $_;

  ## Init.
  $s = *$self->{net_telnet};

  ## Parse the named args.
```

```
  while (($_, $arg) = splice @args, 0, 2) {
## Verify and save arguments.
if (/^-?do$/i) {
    ## Make sure a callback is defined.
    return $self->error("usage: an option callback must already ",
   "be defined when enabling with $_")
 unless $s->{opt_cback};

    $option = &_verify_telopt_arg($self, $arg, $_);
    return unless defined $option;
    push @opt_args, { option    => $option,
        is_remote => '',
        is_enable => 1,
    };
}
elsif (/^-?dont$/i) {
    $option = &_verify_telopt_arg($self, $arg, $_);
    return unless defined $option;
    push @opt_args, { option    => $option,
        is_remote => '',
        is_enable => '',
    };
}
elsif (/^-?will$/i) {
    ## Make sure a callback is defined.
    return $self->error("usage: an option callback must already ",
   "be defined when enabling with $_")
 unless $s->{opt_cback};

    $option = &_verify_telopt_arg($self, $arg, $_);
    return unless defined $option;
    push @opt_args, { option    => $option,
        is_remote => 1,
        is_enable => 1,
    };
}
elsif (/^-?wont$/i) {
    $option = &_verify_telopt_arg($self, $arg, $_);
    return unless defined $option;
    push @opt_args, { option    => $option,
        is_remote => 1,
        is_enable => '',
    };
}
else {
    return $self->error('usage: $obj->option_accept(' .
   '[Do => $telopt,] ',
   '[Dont => $telopt,] ',
```

```
    '[Will => $telopt,] ',
    '[Wont => $telopt,]');
  }
    }

    ## Set "receive ok" for options specified.
    &_opt_accept($self, @opt_args);
  } # end sub option_accept


  sub option_callback {
    my ($self, $callback) = @_;
    my (
  $prev,
  $s,
  );

    $s = *$self->{net_telnet};
    $prev = $s->{opt_cback};

    if (@_ >= 2) {
  unless (defined $callback and ref($callback) eq "CODE") {
      &_carp($self, "ignoring Option_callback argument because it's " .
      "not a code ref");
      $callback = $prev;
  }

  $s->{opt_cback} = $callback;
    }

    $prev;
  } # end sub option_callback


  sub option_log {
    my ($self, $name) = @_;
    my (
  $fh,
  $s,
  );

    $s = *$self->{net_telnet};
    $fh = $s->{opt_log};

    if (@_ >= 2) {
  unless (defined $name) {
      $name = "";
  }
```

```
 $fh = &_fname_to_handle($self, $name)
    or return;
 $s->{opt_log} = $fh;
  }

  $fh;
} # end sub option_log


sub option_state {
  my ($self, $option) = @_;
  my (
 $opt_state,
 $s,
 %opt_state,
 );

  ## Ensure telnet option is non-negative integer.
  $option = &_verify_telopt_arg($self, $option);
  return unless defined $option;

  ## Init.
  $s = *$self->{net_telnet};
  unless (defined $s->{opts}{$option}) {
 &_set_default_option($s, $option);
  }

  ## Return hashref to a copy of the values.
  $opt_state = $s->{opts}{$option};
  %opt_state = %$opt_state;
  \%opt_state;
} # end sub option_state


## Make ors() synonymous with output_record_separator().
*ors = \&output_record_separator;


sub output_field_separator {
  my ($self, $ofs) = @_;
  my (
 $prev,
 $s,
 );

  $s = *$self->{net_telnet};
  $prev = $s->{ofs};
```

```
  if (@_ >= 2) {
 unless (defined $ofs) {
    $ofs = "";
 }

 $s->{ofs} = $ofs;
  }

  $prev;
} # end sub output_field_separator


sub output_log {
  my ($self, $name) = @_;
  my (
 $fh,
 $s,
 );

  $s = *$self->{net_telnet};
  $fh = $s->{outputlog};

  if (@_ >= 2) {
 unless (defined $name) {
    $name = "";
 }

 $fh = &_fname_to_handle($self, $name)
    or return;
 $s->{outputlog} = $fh;
  }

  $fh;
} # end sub output_log


sub output_record_separator {
  my ($self, $ors) = @_;
  my (
 $prev,
 $s,
 );

  $s = *$self->{net_telnet};
  $prev = $s->{ors};

  if (@_ >= 2) {
```

```
 unless (defined $ors) {
     $ors = "";
 }

 $s->{ors} = $ors;
   }

   $prev;
} # end sub output_record_separator


sub port {
   my ($self, $port) = @_;
   my (
 $prev,
 $s,
 $service,
 );

   $s = *$self->{net_telnet};
   $prev = $s->{port};

   if (@_ >= 2) {
 unless (defined $port) {
     $port = "";
 }

 if (!$port) {
     &_carp($self, "ignoring bad Port argument \"$port\"");
     $port = $prev;
 }
 elsif ($port !~ /^\d+$/) {  # port isn't all digits
     $service = $port;
     $port = getservbyname($service, "tcp");
     unless ($port) {
  &_carp($self, "ignoring bad Port argument \"$service\": " .
         "it's an unknown TCP service");
  $port = $prev;
     }
 }

 $s->{port} = $port;
   }

   $prev;
} # end sub port
```

```
sub print {
  my ($self) = shift;
  my (
 $buf,
 $fh,
 $s,
 );

  $s = *$self->{net_telnet};
  $s->{timedout} = '';
  return $self->error("write error: filehandle isn't open")
 unless $s->{opened};

  ## Add field and record separators.
  $buf = join($s->{ofs}, @_) . $s->{ors};

  ## Log the output if requested.
  if ($s->{outputlog}) {
 &_log_print($s->{outputlog}, $buf);
  }

  ## Convert native newlines to CR LF.
  if (!$s->{bin_mode}) {
 $buf =~ s(\n)(\015\012)g;
  }

  ## Escape TELNET IAC and also CR not followed by LF.
  if ($s->{telnet_mode}) {
 $buf =~ s(\377)(\377\377)g;
 &_escape_cr(\$buf);
  }

  &_put($self, \$buf, "print");
} # end sub print


sub print_length {
  my ($self) = @_;

  *$self->{net_telnet}{num_wrote};
} # end sub print_length


sub prompt {
  my ($self, $prompt) = @_;
  my (
 $prev,
 $s,
```

```
);

  $s = *$self->{net_telnet};
  $prev = $s->{cmd_prompt};

  ## Parse args.
  if (@_ == 2) {
$s->{cmd_prompt} = &_parse_prompt($self, $prompt);
  }

  $prev;
} # end sub prompt


sub put {
  my ($self) = @_;
  my (
$binmode,
$buf,
$errmode,
$is_timeout_arg,
$s,
$telnetmode,
$timeout,
%args,
);
  local $_;

  ## Init.
  $s = *$self->{net_telnet};
  $s->{timedout} = '';

  ## Parse args.
  if (@_ == 2) {  # one positional arg given
$buf = $_[1];
  }
  elsif (@_ > 2) {  # named args given
## Get the named args.
(undef, %args) = @_;

## Parse the named args.
foreach (keys %args) {
   if (/^-?binmode$/i) {
 $binmode = $args{$_};
 unless (defined $binmode) {
    $binmode = 0;
 }
   }
```

```
   elsif (/^-?errmode$/i) {
 $errmode = &_parse_errmode($self, $args{$_});
   }
   elsif (/^-?string$/i) {
 $buf = $args{$_};
   }
   elsif (/^-?telnetmode$/i) {
 $telnetmode = $args{$_};
 unless (defined $telnetmode) {
    $telnetmode = 0;
 }
   }
   elsif (/^-?timeout$/i) {
 $timeout = &_parse_timeout($self, $args{$_});
 $is_timeout_arg = 1;
   }
   else {
 &_croak($self, "bad named parameter \"$_\" given ",
  "to " . ref($self) . "::put()");
   }
}
 }

  ## If any args given, override corresponding instance data.
  local $s->{bin_mode} = $binmode
if defined $binmode;
  local $s->{errormode} = $errmode
if defined $errmode;
  local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;
  local $s->{time_out} = $timeout
if defined $is_timeout_arg;

  ## Check for errors.
  return $self->error("write error: filehandle isn't open")
unless $s->{opened};

  ## Log the output if requested.
  if ($s->{outputlog}) {
&_log_print($s->{outputlog}, $buf);
  }

  ## Convert native newlines to CR LF.
  if (!$s->{bin_mode}) {
$buf =~ s(\n)(\015\012)g;
  }

  ## Escape TELNET IAC and also CR not followed by LF.
```

```
  if ($s->{telnet_mode}) {
 $buf =~ s(\377)(\377\377)g;
 &_escape_cr(\$buf);
  }

  &_put($self, \$buf, "print");
} # end sub put


## Make rs() synonymous input_record_separator().
*rs = \&input_record_separator;


sub suboption_callback {
  my ($self, $callback) = @_;
  my (
 $prev,
 $s,
 );

  $s = *$self->{net_telnet};
  $prev = $s->{subopt_cback};

  if (@_ >= 2) {
 unless (defined $callback and ref($callback) eq "CODE") {
    &_carp($self,"ignoring Suboption_callback argument because it's " .
    "not a code ref");
    $callback = $prev;
 }

 $s->{subopt_cback} = $callback;
  }

  $prev;
} # end sub suboption_callback


sub telnetmode {
  my ($self, $mode) = @_;
  my (
 $prev,
 $s,
 );

  $s = *$self->{net_telnet};
  $prev = $s->{telnet_mode};

  if (@_ >= 2) {
```

```
 unless (defined $mode) {
    $mode = 0;
 }

 $s->{telnet_mode} = $mode;
   }

   $prev;
} # end sub telnetmode


sub timed_out {
   my ($self, $value) = @_;
   my (
 $prev,
 $s,
 );

   $s = *$self->{net_telnet};
   $prev = $s->{timedout};

   if (@_ >= 2) {
 unless (defined $value) {
    $value = "";
 }

 $s->{timedout} = $value;
   }

   $prev;
} # end sub timed_out


sub timeout {
   my ($self, $timeout) = @_;
   my (
 $prev,
 $s,
 );

   $s = *$self->{net_telnet};
   $prev = $s->{time_out};

   if (@_ >= 2) {
 $s->{time_out} = &_parse_timeout($self, $timeout);
   }

   $prev;
```

```
} # end sub timeout


sub waitfor {
  my ($self, @args) = @_;
  my (
 $arg,
 $binmode,
 $endtime,
 $errmode,
 $len,
 $match,
 $match_op,
 $pos,
 $prematch,
 $s,
 $search,
 $search_cond,
 $telnetmode,
 $timeout,
 @match_cond,
 @match_ops,
 @search_cond,
 @string_cond,
 @warns,
 );
  local $_;

  ## Init.
  $s = *$self->{net_telnet};
  $s->{timedout} = '';
  return if $s->{eofile};
  return unless @args;
  $timeout = $s->{time_out};

  ## Code template used to build string match conditional.
  ## Values between array elements must be supplied later.
  @string_cond =
('if (($pos = index $s->{buf}, ', ') > -1) {
    $len = ', ';
    $prematch = substr $s->{buf}, 0, $pos;
    $match = substr $s->{buf}, $pos, $len;
    substr($s->{buf}, 0, $pos + $len) = "";
    last;
 }');

  ## Code template used to build pattern match conditional.
  ## Values between array elements must be supplied later.
```

```
  @match_cond =
('if ($s->{buf} =~ ', ') {
    $prematch = $';
    $match = $&;
    substr($s->{buf}, 0, length($') + length($&)) = "";
    last;
}');

  ## Parse args.
  if (@_ == 2) {  # one positional arg given
$arg = $_[1];

## Fill in the blanks in the code template.
push @match_ops, $arg;
push @search_cond, join("", $match_cond[0], $arg, $match_cond[1]);
  }
  elsif (@_ > 2) {  # named args given
## Parse the named args.
while (($_, $arg) = splice @args, 0, 2) {
    if (/^-?binmode$/i) {
 $binmode = $arg;
 unless (defined $binmode) {
     $binmode = 0;
 }
    }
    elsif (/^-?errmode$/i) {
 $errmode = &_parse_errmode($self, $arg);
    }
    elsif (/^-?match$/i) {
 ## Fill in the blanks in the code template.
 push @match_ops, $arg;
 push @search_cond, join("",
    $match_cond[0], $arg, $match_cond[1]);
    }
    elsif (/^-?string$/i) {
 ## Fill in the blanks in the code template.
 $arg =~ s/'/\\'/g;  # quote ticks
 push @search_cond, join("",
    $string_cond[0], "'$arg'",
    $string_cond[1], length($arg),
    $string_cond[2]);
    }
    elsif (/^-?telnetmode$/i) {
 $telnetmode = $arg;
 unless (defined $telnetmode) {
     $telnetmode = 0;
 }
    }
```

```
    elsif (/^-?timeout$/i) {
 $timeout = &_parse_timeout($self, $arg);
    }
    else {
 &_croak($self, "bad named parameter \"$_\" given " .
  "to " . ref($self) . "::waitfor()");
    }
}
  }

  ## If any args given, override corresponding instance data.
  local $s->{errormode} = $errmode
if defined $errmode;
  local $s->{bin_mode} = $binmode
if defined $binmode;
  local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;

  ## Check for bad match operator argument.
  foreach $match_op (@match_ops) {
return $self->error("missing opening delimiter of match operator ",
      "in argument \"$match_op\" given to ",
      ref($self) . "::waitfor()")
    unless $match_op =~ m(^\s*/) or $match_op =~ m(^\s*m\s*\W);
  }

  ## Construct conditional to check for requested string and pattern matches.
  ## Turn subsequent "if"s into "elsif".
  $search_cond = join "\n\tels", @search_cond;

  ## Construct loop to fill buffer until string/pattern, timeout, or eof.
  $search = join "", "
  while (1) {\n\t",
$search_cond, '
&_fillbuf($self, $s, $endtime)
    or do {
 last if $s->{timedout};
 $self->close;
 last;
    };
  }';

  ## Set wall time when we timeout.
  $endtime = &_endtime($timeout);

  ## Run the loop.
  {
local $^W = 1;
```

```
 local $SIG{"__WARN__"} = sub { push @warns, @_ };
 local $s->{errormode} = "return";
 $s->{errormsg} = "";
 eval $search;
   }

   ## Check for failure.
   return $self->error("pattern match timed-out") if $s->{timedout};
   return $self->error($s->{errormsg}) if $s->{errormsg} ne "";
   return $self->error("pattern match read eof") if $s->{eofile};

   ## Check for Perl syntax errors or warnings.
   if ($@ or @warns) {
 foreach $match_op (@match_ops) {
     &_match_check($self, $match_op)
  or return;
 }
 return $self->error($@) if $@;
 return $self->error(@warns) if @warns;
   }

   wantarray ? ($prematch, $match) : 1;
} # end sub waitfor


######################### Private Subroutines #########################


sub _append_lineno {
   my ($obj, @msgs) = @_;
   my (
 $file,
 $line,
 $pkg,
 );

   ## Find the caller that's not in object's class or one of its base classes.
   ($pkg, $file , $line) = &_user_caller($obj);
   join("", @msgs, " at ", $file, " line ", $line, "\n");
} # end sub _append_lineno


sub _carp {
   warn &_append_lineno(@_);
} # end sub _carp


sub _croak {
```

```
  die &_append_lineno(@_);
} # end sub _croak


sub _endtime {
  my ($interval) = @_;

  ## Compute wall time when timeout occurs.
  if (defined $interval) {
 if ($interval >= $^T) {  # it's already an absolute time
    return $interval;
 }
 elsif ($interval > 0) {  # it's relative to the current time
    return int(time + 1.5 + $interval);
 }
 else {  # it's a one time poll
    return 0;
 }
  }
  else {  # there's no timeout
 return undef;
  }
} # end sub _endtime


sub _escape_cr {
  my ($string) = @_;
  my (
 $nextchar,
 );
  my $pos = 0;

  ## Convert all CR (not followed by LF) to CR NULL.
  while (($pos = index($$string, "\015", $pos)) > -1) {
 $nextchar = substr $$string, $pos + 1, 1;

 substr($$string, $pos, 1) = "\015\000"
    unless $nextchar eq "\012";

 $pos++;
  }

  1;
} # end sub _escape_cr


sub _fillbuf {
  my ($self, $s, $endtime) = @_;
```

```
  my (
$msg,
$nfound,
$nread,
$pushback_len,
$read_pos,
$ready,
$timed_out,
$timeout,
$unparsed_pos,
);

  ## If error from last read not yet reported then do it now.
  if ($s->{pending_errormsg}) {
$msg = $s->{pending_errormsg};
$s->{pending_errormsg} = "";
return $self->error($msg);
  }

  return unless $s->{opened};

  while (1) {
## Maximum buffer size exceeded?
return $self->error("maximum input buffer length exceeded: ",
      $s->{maxbufsize}, " bytes")
    unless length($s->{buf}) <= $s->{maxbufsize};

## Determine how long to wait for input ready.
($timed_out, $timeout) = &_timeout_interval($endtime);
if ($timed_out) {
    $s->{timedout} = 1;
    return $self->error("read timed-out");
}

## Wait for input ready.
$nfound = select $ready=$s->{fdmask}, "", "", $timeout;

## Handle any errors while waiting.
if (!defined $nfound or $nfound <= 0) {  # input not ready
    if (defined $nfound and $nfound == 0) {  # timed-out
 $s->{timedout} = 1;
 return $self->error("read timed-out");
    }
    else {  # error waiting for input ready
 next if $! =~ /^interrupted/i;

 $s->{opened} = '';
 return $self->error("read error: $!");
```

```
    }
}

## Append to buffer any partially processed telnet or CR sequence.
$pushback_len = length $s->{pushback_buf};
if ($pushback_len) {
    $s->{buf} .= $s->{pushback_buf};
    $s->{pushback_buf} = "";
}

## Read the waiting data.
$read_pos = length $s->{buf};
$unparsed_pos = $read_pos - $pushback_len;
$nread = sysread $self, $s->{buf}, $s->{blksize}, $read_pos;

## Handle any read errors.
if (!defined $nread) {  # read failed
    next if $! =~ /^interrupted/i;  # restart interrupted syscall

    $s->{opened} = '';
    return $self->error("read error: $!");
}

## Handle eof.
if ($nread == 0) {  # eof read
    $s->{opened} = '';
    return;
}

## Display network traffic if requested.
if ($s->{dumplog}) {
    &_log_dump('<', $s->{dumplog}, \$s->{buf}, $read_pos);
}

## Process any telnet commands in the data stream.
if ($s->{telnet_mode} and index($s->{buf},"\377",$unparsed_pos) > -1) {
    &_interpret_tcmd($self, $s, $unparsed_pos);
}

## Process any carriage-return sequences in the data stream.
&_interpret_cr($s, $unparsed_pos);

## Read again if all chars read were consumed as telnet cmds.
next if $unparsed_pos >= length $s->{buf};

## Log the input if requested.
if ($s->{inputlog}) {
    &_log_print($s->{inputlog}, substr($s->{buf}, $unparsed_pos));
```

```
 }

 ## Save the last line read.
 &_save_lastline($s);

 ## We've successfully read some data into the buffer.
 last;
   } # end while(1)

   1;
} # end sub _fillbuf


sub _flush_opts {
   my ($self) = @_;
   my (
 $option_chars,
 );
   my $s = *$self->{net_telnet};

   ## Get option and clear the output buf.
   $option_chars = $s->{unsent_opts};
   $s->{unsent_opts} = "";

   ## Try to send options without waiting.
   {
 local $s->{errormode} = "return";
 local $s->{time_out} = 0;
 &_put($self, \$option_chars, "telnet option negotiation")
     or do {
  ## Save chars not printed for later.
  substr($option_chars, 0, $self->print_length) = "";
  $s->{unsent_opts} .= $option_chars;
     };
   }

   1;
} # end sub _flush_opts


sub _fname_to_handle {
   my ($self, $fh) = @_;
   my (
 $filename,
 );

   ## Ensure valid input.
   return ""
```

```
 unless defined $fh and (ref $fh or length $fh);

  ## Open a new filehandle if input is a filename.
  no strict "refs";
  if (!ref($fh) and !defined(fileno $fh)) {  # fh is a filename
 $filename = $fh;
 $fh = &_new_handle();
 CORE::open $fh, "> $filename"
    or return $self->error("problem creating $filename: $!");
  }

  select((select($fh), $|=1)[$[]);  # don't buffer writes
  $fh;
} # end sub _fname_to_handle


sub _have_alarm {
  eval {
 local $SIG{"__DIE__"} = "DEFAULT";
 local $SIG{ALRM} = sub { die };
 alarm 0;
  };

  ! $@;
} # end sub _have_alarm


sub _interpret_cr {
  my ($s, $pos) = @_;
  my (
 $nextchar,
 );

  while (($pos = index($s->{buf}, "\015", $pos)) > -1) {
 $nextchar = substr($s->{buf}, $pos + 1, 1);
 if ($nextchar eq "\0") {
    ## Convert CR NULL to CR when in telnet mode.
    if ($s->{telnet_mode}) {
  substr($s->{buf}, $pos + 1, 1) = "";
    }
 }
 elsif ($nextchar eq "\012") {
    ## Convert CR LF to newline when not in binary mode.
    if (!$s->{bin_mode}) {
  substr($s->{buf}, $pos, 2) = "\n";
    }
 }
 elsif (!length($nextchar) and ($s->{telnet_mode} or !$s->{bin_mode})) {
```

```
    ## Save CR in alt buffer for possible CR LF or CR NULL conversion.
    $s->{pushback_buf} .= "\015";
    chop $s->{buf};
 }

 $pos++;
   }

   1;
} # end sub _interpret_cr


sub _interpret_tcmd {
   my ($self, $s, $offset) = @_;
   my (
 $callback,
 $endpos,
 $nextchar,
 $option,
 $parameters,
 $pos,
 $subcmd,
 );
   local $_;

   ## Parse telnet commands in the data stream.
   $pos = $offset;
   while (($pos = index $s->{buf}, "\377", $pos) > -1) {  # unprocessed IAC
 $nextchar = substr $s->{buf}, $pos + 1, 1;

 ## Save command if it's only partially read.
 if (!length $nextchar) {
    $s->{pushback_buf} .= "\377";
    chop $s->{buf};
    last;
 }

 if ($nextchar eq "\377") {  # IAC is escaping "\377" char
    ## Remove escape char from data stream.
    substr($s->{buf}, $pos, 1) = "";
    $pos++;
 }
 elsif ($nextchar eq "\375" or $nextchar eq "\373" or
        $nextchar eq "\374" or $nextchar eq "\376") {  # opt negotiation
    $option = substr $s->{buf}, $pos + 2, 1;

    ## Save command if it's only partially read.
    if (!length $option) {
```

```
 $s->{pushback_buf} .= "\377" . $nextchar;
 chop $s->{buf};
 chop $s->{buf};
 last;
    }

    ## Remove command from data stream.
    substr($s->{buf}, $pos, 3) = "";

    ## Handle option negotiation.
    &_negotiate_recv($self, $s, $nextchar, ord($option), $pos);
}
elsif ($nextchar eq "\372") {  # start of subnegotiation parameters
    ## Save command if it's only partially read.
    $endpos = index $s->{buf}, "\360", $pos;
    if ($endpos == -1) {
 $s->{pushback_buf} .= substr $s->{buf}, $pos;
 substr($s->{buf}, $pos) = "";
 last;
    }

    ## Remove subnegotiation cmd from buffer.
    $subcmd = substr($s->{buf}, $pos, $endpos - $pos + 1);
    substr($s->{buf}, $pos, $endpos - $pos + 1) = "";

    ## Invoke subnegotiation callback.
    if ($s->{subopt_cback} and length($subcmd) >= 5) {
 $option = unpack "C", substr($subcmd, 2, 1);
 if (length($subcmd) >= 6) {
     $parameters = substr $subcmd, 3, length($subcmd) - 5;
 }
 else {
     $parameters = "";
 }

 $callback = $s->{subopt_cback};
 &$callback($self, $option, $parameters);
    }
}
else {  # various two char telnet commands
    ## Ignore and remove command from data stream.
    substr($s->{buf}, $pos, 2) = "";
}
  }

  ## Try to send any waiting option negotiation.
  if (length $s->{unsent_opts}) {
&_flush_opts($self);
```

```
  }

  1;
} # end sub _interpret_tcmd


sub _io_socket_include {
  local $SIG{"__DIE__"} = "DEFAULT";
  eval "require IO::Socket";
} # end sub io_socket_include


sub _log_dump {
  my ($direction, $fh, $data, $offset, $len) = @_;
  my (
 $addr,
 $hexvals,
 $line,
 );

  $addr = 0;
  $len = length($$data) - $offset
 if !defined $len;
  return 1 if $len <= 0;

  ## Print data in dump format.
  while ($len > 0) {
 ## Convert up to the next 16 chars to hex, padding w/ spaces.
 if ($len >= 16) {
    $line = substr $$data, $offset, 16;
 }
 else {
    $line = substr $$data, $offset, $len;
 }
 $hexvals = unpack("H*", $line);
 $hexvals .= ' ' x (32 - length $hexvals);

 ## Place in 16 columns, each containing two hex digits.
 $hexvals = sprintf("%s %s %s %s  " x 4,
     unpack("a2" x 16, $hexvals));

 ## For the ASCII column, change unprintable chars to a period.
 $line =~ s/[\000-\037,\177-\237]/./g;

 ## Print the line in dump format.
 &_log_print($fh, sprintf("%s 0x%5.5lx: %s%s\n",
    $direction, $addr, $hexvals, $line));
```

```
 $addr += 16;
 $offset += 16;
 $len -= 16;
   }

   &_log_print($fh, "\n");

   1;
} # end sub _log_dump


sub _log_option {
   my ($fh, $direction, $request, $option) = @_;
   my (
 $name,
 );

   if ($option >= 0 and $option <= $#Telopts) {
 $name = $Telopts[$option];
   }
   else {
 $name = $option;
   }

   &_log_print($fh, "$direction $request $name\n");
} # end sub _log_option


sub _log_print {
   my ($fh, $buf) = @_;
   local $\ = '';

   if (ref($fh) and ref($fh) ne "GLOB") {  # fh is blessed ref
 $fh->print($buf);
   }
   else {  # fh isn't blessed ref
 print $fh $buf;
   }
} # end sub _log_print


sub _match_check {
   my ($self, $code) = @_;
   my $error;
   my @warns = ();

   ## Use eval to check for syntax errors or warnings.
   {
```

```
 local $SIG{"__DIE__"} = "DEFAULT";
 local $SIG{"__WARN__"} = sub { push @warns, @_ };
 local $^W = 1;
 local $_ = '';
 eval "\$_ =~ $code;";
   }
   if ($@) {
 ## Remove useless lines numbers from message.
 ($error = $@) =~ s/ at \(eval \d+\) line \d+.?//;
 chomp $error;
 return $self->error("bad match operator: $error");
   }
   elsif (@warns) {
 ## Remove useless lines numbers from message.
 ($error = shift @warns) =~ s/ at \(eval \d+\) line \d+.?//;
 $error =~ s/ while "strict subs" in use//;
 chomp $error;
 return $self->error("bad match operator: $error");
   }

   1;
} # end sub _match_check


sub _negotiate_callback {
   my ($self, $opt, $is_remote, $is_enabled, $was_enabled, $opt_bufpos) = @_;
   my (
 $callback,
 $s,
 );
   local $_;

   ## Keep track of remote echo.
   if ($is_remote and $opt == &TELOPT_ECHO) {  # received WILL or WONT ECHO
 $s = *$self->{net_telnet};

 if ($is_enabled and !$was_enabled) {  # received WILL ECHO
     $s->{remote_echo} = 1;
 }
 elsif (!$is_enabled and $was_enabled) {  # received WONT ECHO
     $s->{remote_echo} = '';
 }
   }

   ## Invoke callback, if there is one.
   $callback = $self->option_callback;
   if ($callback) {
 &$callback($self, $opt, $is_remote,
```

```
    $is_enabled, $was_enabled, $opt_bufpos);
  }

  1;
} # end sub _negotiate_callback


sub _negotiate_recv {
  my ($self, $s, $opt_request, $opt, $opt_bufpos) = @_;

  ## Ensure data structure exists for this option.
  unless (defined $s->{opts}{$opt}) {
&_set_default_option($s, $opt);
  }

  ## Process the option.
  if ($opt_request eq "\376") {  # DONT
&_negotiate_recv_disable($self, $s, $opt, "dont", $opt_bufpos,
    $s->{opts}{$opt}{local_enable_ok},
    \$s->{opts}{$opt}{local_enabled},
    \$s->{opts}{$opt}{local_state});
  }
  elsif ($opt_request eq "\375") {  # DO
&_negotiate_recv_enable($self, $s, $opt, "do", $opt_bufpos,
   $s->{opts}{$opt}{local_enable_ok},
   \$s->{opts}{$opt}{local_enabled},
   \$s->{opts}{$opt}{local_state});
  }
  elsif ($opt_request eq "\374") {  # WONT
&_negotiate_recv_disable($self, $s, $opt, "wont", $opt_bufpos,
    $s->{opts}{$opt}{remote_enable_ok},
    \$s->{opts}{$opt}{remote_enabled},
    \$s->{opts}{$opt}{remote_state});
  }
  elsif ($opt_request eq "\373") {  # WILL
&_negotiate_recv_enable($self, $s, $opt, "will", $opt_bufpos,
   $s->{opts}{$opt}{remote_enable_ok},
   \$s->{opts}{$opt}{remote_enabled},
   \$s->{opts}{$opt}{remote_state});
  }
  else {  # internal error
die;
  }

  1;
} # end sub _negotiate_recv
```

```
sub _negotiate_recv_disable {
  my ($self, $s, $opt, $opt_request,
$opt_bufpos, $enable_ok, $is_enabled, $state) = @_;
  my (
$ack,
$disable_cmd,
$enable_cmd,
$is_remote,
$nak,
$was_enabled,
);

  ## What do we use to request enable/disable or respond with ack/nak.
  if ($opt_request eq "wont") {
$enable_cmd  = "\377\375" . pack("C", $opt);  # do command
$disable_cmd = "\377\376" . pack("C", $opt);  # dont command
$is_remote = 1;
$ack = "DO";
$nak = "DONT";

&_log_option($s->{opt_log}, "RCVD", "WONT", $opt)
    if $s->{opt_log};
  }
  elsif ($opt_request eq "dont") {
$enable_cmd  = "\377\373" . pack("C", $opt);  # will command
$disable_cmd = "\377\374" . pack("C", $opt);  # wont command
$is_remote = '';
$ack = "WILL";
$nak = "WONT";

&_log_option($s->{opt_log}, "RCVD", "DONT", $opt)
    if $s->{opt_log};
  }
  else {  # internal error
die;
  }

  ## Respond to WONT or DONT based on the current negotiation state.
  if ($$state eq "no") {  # state is already disabled
  }
  elsif ($$state eq "yes") {  # they're initiating disable
$$is_enabled = '';
$$state = "no";

## Send positive acknowledgment.
$s->{unsent_opts} .= $disable_cmd;
&_log_option($s->{opt_log}, "SENT", $nak, $opt)
    if $s->{opt_log};
```

```
## Invoke callbacks.
&_negotiate_callback($self, $opt, $is_remote,
      $$is_enabled, $was_enabled, $opt_bufpos);
  }
  elsif ($$state eq "wantno") {  # they sent positive ack
$$is_enabled = '';
$$state = "no";

## Invoke callback.
&_negotiate_callback($self, $opt, $is_remote,
      $$is_enabled, $was_enabled, $opt_bufpos);
  }
  elsif ($$state eq "wantno opposite") {  # pos ack but we changed our mind
## Indicate disabled but now we want to enable.
$$is_enabled = '';
$$state = "wantyes";

## Send queued request.
$s->{unsent_opts} .= $enable_cmd;
&_log_option($s->{opt_log}, "SENT", $ack, $opt)
    if $s->{opt_log};

## Invoke callback.
&_negotiate_callback($self, $opt, $is_remote,
      $$is_enabled, $was_enabled, $opt_bufpos);
  }
  elsif ($$state eq "wantyes") {  # they sent negative ack
$$is_enabled = '';
$$state = "no";

## Invoke callback.
&_negotiate_callback($self, $opt, $is_remote,
      $$is_enabled, $was_enabled, $opt_bufpos);
  }
  elsif ($$state eq "wantyes opposite") {  # nak but we changed our mind
$$is_enabled = '';
$$state = "no";

## Invoke callback.
&_negotiate_callback($self, $opt, $is_remote,
      $$is_enabled, $was_enabled, $opt_bufpos);
  }
} # end sub _negotiate_recv_disable


sub _negotiate_recv_enable {
  my ($self, $s, $opt, $opt_request,
```

```
$opt_bufpos, $enable_ok, $is_enabled, $state) = @_;
  my (
$ack,
$disable_cmd,
$enable_cmd,
$is_remote,
$nak,
$was_enabled,
);

  ## What we use to send enable/disable request or send ack/nak response.
  if ($opt_request eq "will") {
$enable_cmd  = "\377\375" . pack("C", $opt);  # do command
$disable_cmd = "\377\376" . pack("C", $opt);  # dont command
$is_remote = 1;
$ack = "DO";
$nak = "DONT";

&_log_option($s->{opt_log}, "RCVD", "WILL", $opt)
    if $s->{opt_log};
  }
  elsif ($opt_request eq "do") {
$enable_cmd  = "\377\373" . pack("C", $opt);  # will command
$disable_cmd = "\377\374" . pack("C", $opt);  # wont command
$is_remote = '';
$ack = "WILL";
$nak = "WONT";

&_log_option($s->{opt_log}, "RCVD", "DO", $opt)
    if $s->{opt_log};
  }
  else {  # internal error
die;
  }

  ## Save current enabled state.
  $was_enabled = $$is_enabled;

  ## Respond to WILL or DO based on the current negotiation state.
  if ($$state eq "no") {  # they're initiating enable
if ($enable_ok) {  # we agree they/us should enable
    $$is_enabled = 1;
    $$state = "yes";

    ## Send positive acknowledgment.
    $s->{unsent_opts} .= $enable_cmd;
    &_log_option($s->{opt_log}, "SENT", $ack, $opt)
 if $s->{opt_log};
```

```
    ## Invoke callbacks.
    &_negotiate_callback($self, $opt, $is_remote,
    $$is_enabled, $was_enabled, $opt_bufpos);
}
else {  # we disagree they/us should enable
    ## Send negative acknowledgment.
    $s->{unsent_opts} .= $disable_cmd;
    &_log_option($s->{opt_log}, "SENT", $nak, $opt)
 if $s->{opt_log};
}
  }
  elsif ($$state eq "yes") {  # state is already enabled
  }
  elsif ($$state eq "wantno") {  # error: our disable req answered by enable
$$is_enabled = '';
$$state = "no";

## Invoke callbacks.
&_negotiate_callback($self, $opt, $is_remote,
       $$is_enabled, $was_enabled, $opt_bufpos);
  }
  elsif ($$state eq "wantno opposite") { # err: disable req answerd by enable
$$is_enabled = 1;
$$state = "yes";

## Invoke callbacks.
&_negotiate_callback($self, $opt, $is_remote,
       $$is_enabled, $was_enabled, $opt_bufpos);
  }
  elsif ($$state eq "wantyes") {  # they sent pos ack
$$is_enabled = 1;
$$state = "yes";

## Invoke callback.
&_negotiate_callback($self, $opt, $is_remote,
       $$is_enabled, $was_enabled, $opt_bufpos);
  }
  elsif ($$state eq "wantyes opposite") {  # pos ack but we changed our mind
## Indicate enabled but now we want to disable.
$$is_enabled = 1;
$$state = "wantno";

## Inform other side we changed our mind.
$s->{unsent_opts} .= $disable_cmd;
&_log_option($s->{opt_log}, "SENT", $nak, $opt)
    if $s->{opt_log};
```

```
 ## Invoke callback.
 &_negotiate_callback($self, $opt, $is_remote,
       $$is_enabled, $was_enabled, $opt_bufpos);
   }

   1;
} # end sub _negotiate_recv_enable


sub _new_handle {
   if ($INC{"IO/Handle.pm"}) {
 return IO::Handle->new;
   }
   else {
 require FileHandle;
 return FileHandle->new;
   }
} # end sub _new_handle


sub _next_getlines {
   my ($self, $s) = @_;
   my (
 $len,
 $line,
 $pos,
 @lines,
 );

   ## Fill buffer and get first line.
   $line = $self->getline
 or return;
   push @lines, $line;

   ## Extract subsequent lines from buffer.
   while (($pos = index($s->{buf}, $s->{rs})) != -1) {
 $len = $pos + length $s->{rs};
 push @lines, substr($s->{buf}, 0, $len);
 substr($s->{buf}, 0, $len) = "";
   }

   @lines;
} # end sub _next_getlines


sub _opt_accept {
   my ($self, @args) = @_;
   my (
```

```
$arg,
$option,
$s,
);

  ## Init.
  $s = *$self->{net_telnet};

  foreach $arg (@args) {
 ## Ensure data structure defined for this option.
 $option = $arg->{option};
 if (!defined $s->{opts}{$option}) {
    &_set_default_option($s, $option);
 }

 ## Save whether we'll accept or reject this option.
 if ($arg->{is_remote}) {
    $s->{opts}{$option}{remote_enable_ok} = $arg->{is_enable};
 }
 else {
    $s->{opts}{$option}{local_enable_ok} = $arg->{is_enable};
 }
  }

  1;
} # end sub _opt_accept


sub _optimal_blksize {
  my ($blksize) = @_;
  local $^W = '';  # avoid non-numeric warning for ms-windows blksize of ""

  ## Use default when block size is invalid.
  return 8192
 unless defined $blksize and $blksize >= 1 and $blksize <= 1_048_576;

  $blksize;
} # end sub _optimal_blksize


sub _parse_cmd_remove_mode {
  my ($self, $mode) = @_;

  if (!defined $mode) {
 $mode = 0;
  }
  elsif ($mode =~ /^\s*auto\s*$/i) {
 $mode = "auto";
```

```
  }
  elsif ($mode !~ /^\d+$/) {
 &_carp($self, "ignoring bad Cmd_remove_mode " .
       "argument \"$mode\": it's not \"auto\" or a " .
       "non-negative integer");
 $mode = *$self->{net_telnet}{cmd_rm_mode};
  }

  $mode;
} # end sub _parse_cmd_remove_mode


sub _parse_errmode {
  my ($self, $errmode) = @_;

  ## Set the error mode.
  if (!defined $errmode) {
 &_carp($self, "ignoring undefined Errmode argument");
 $errmode = *$self->{net_telnet}{errormode};
  }
  elsif ($errmode =~ /^\s*return\s*$/i) {
 $errmode = "return";
  }
  elsif ($errmode =~ /^\s*die\s*$/i) {
 $errmode = "die";
  }
  elsif (ref($errmode) eq "CODE") {
  }
  elsif (ref($errmode) eq "ARRAY") {
 unless (ref($errmode->[0]) eq "CODE") {
    &_carp($self, "ignoring bad Errmode argument: " .
    "first list item isn't a code ref");
    $errmode = *$self->{net_telnet}{errormode};
 }
  }
  else {
 &_carp($self, "ignoring bad Errmode argument \"$errmode\"");
 $errmode = *$self->{net_telnet}{errormode};
  }

  $errmode;
} # end sub _parse_errmode


sub _parse_input_record_separator {
  my ($self, $rs) = @_;

  unless (defined $rs and length $rs) {
```

```
 &_carp($self, "ignoring null Input_record_separator argument");
 $rs = *$self->{net_telnet}{rs};
   }

   $rs;
} # end sub _parse_input_record_separator


sub _parse_prompt {
   my ($self, $prompt) = @_;

   unless (defined $prompt) {
 $prompt = "";
   }

   unless ($prompt =~ m(^\s*/) or $prompt =~ m(^\s*m\s*\W)) {
 &_carp($self, "ignoring bad Prompt argument \"$prompt\": " .
       "missing opening delimiter of match operator");
 $prompt = *$self->{net_telnet}{cmd_prompt};
   }

   $prompt;
} # end sub _parse_prompt


sub _parse_timeout {
   my ($self, $timeout) = @_;

   ## Ensure valid timeout.
   if (defined $timeout) {
 ## Test for non-numeric or negative values.
 eval {
    local $SIG{"__DIE__"} = "DEFAULT";
    local $SIG{"__WARN__"} = sub { die "non-numeric\n" };
    local $^W = 1;
    $timeout *= 1;
 };
 if ($@) {  # timeout arg is non-numeric
    &_carp($self,
    "ignoring non-numeric Timeout argument \"$timeout\"");
    $timeout = *$self->{net_telnet}{time_out};
 }
 elsif ($timeout < 0) {  # timeout arg is negative
    &_carp($self, "ignoring negative Timeout argument \"$timeout\"");
    $timeout = *$self->{net_telnet}{time_out};
 }
   }
```

```
  $timeout;
} # end sub _parse_timeout


sub _put {
  my ($self, $buf, $subname) = @_;
  my (
 $endtime,
 $len,
 $nfound,
 $nwrote,
 $offset,
 $ready,
 $s,
 $timed_out,
 $timeout,
 $zero_wrote_count,
 );

  ## Init.
  $s = *$self->{net_telnet};
  $s->{num_wrote} = 0;
  $zero_wrote_count = 0;
  $offset = 0;
  $len = length $$buf;
  $endtime = &_endtime($s->{time_out});

  return $self->error("write error: filehandle isn't open")
 unless $s->{opened};

  ## Try to send any waiting option negotiation.
  if (length $s->{unsent_opts}) {
 &_flush_opts($self);
  }

  ## Write until all data blocks written.
  while ($len) {
 ## Determine how long to wait for output ready.
 ($timed_out, $timeout) = &_timeout_interval($endtime);
 if ($timed_out) {
    $s->{timedout} = 1;
    return $self->error("$subname timed-out");
 }

 ## Wait for output ready.
 $nfound = select "", $ready=$s->{fdmask}, "", $timeout;

 ## Handle any errors while waiting.
```

```
if (!defined $nfound or $nfound <= 0) {  # output not ready
    if (defined $nfound and $nfound == 0) {  # timed-out
 $s->{timedout} = 1;
 return $self->error("$subname timed-out");
    }
    else {  # error waiting for output ready
 next if $! =~ /^interrupted/i;

 $s->{opened} = '';
 return $self->error("write error: $!");
    }
}

## Write the data.
$nwrote = syswrite $self, $$buf, $len, $offset;

## Handle any write errors.
if (!defined $nwrote) {  # write failed
    next if $! =~ /^interrupted/i;  # restart interrupted syscall

    $s->{opened} = '';
    return $self->error("write error: $!");
}
elsif ($nwrote == 0) {  # zero chars written
    ## Try ten more times to write the data.
    if ($zero_wrote_count++ <= 10) {
 &_sleep(0.01);
 next;
    }

    $s->{opened} = '';
    return $self->error("write error: zero length write: $!");
}

## Display network traffic if requested.
if ($s->{dumplog}) {
    &_log_dump('>', $s->{dumplog}, $buf, $offset, $nwrote);
}

## Increment.
$s->{num_wrote} += $nwrote;
$offset += $nwrote;
$len -= $nwrote;
  }

  1;
} # end sub _put
```

```
sub _qualify_fh {
  my ($obj, $name) = @_;
  my (
 $user_class,
 );
  local $_;

  ## Get user's package name.
  ($user_class) = &_user_caller($obj);

  ## Ensure name is qualified with a package name.
  $name = qualify($name, $user_class);

  ## If it's not already, make it a typeglob ref.
  if (!ref $name) {
 no strict;
 local $^W = 0;

 $name =~ s/^\*+//;
 $name = eval "\\*$name";
 return unless ref $name;
  }

  $name;
} # end sub _qualify_fh


sub _reset_options {
  my ($opts) = @_;
  my (
 $opt,
 );

  foreach $opt (keys %$opts) {
 $opts->{$opt}{remote_enabled} = '';
 $opts->{$opt}{remote_state} = "no";
 $opts->{$opt}{local_enabled} = '';
 $opts->{$opt}{local_state} = "no";
  }

  1;
} # end sub _reset_options


sub _save_lastline {
  my ($s) = @_;
  my (
```

```
$firstpos,
$lastpos,
$len_w_sep,
$len_wo_sep,
$offset,
);
  my $rs = "\n";

  if (($lastpos = rindex $s->{buf}, $rs) > -1) {  # eol found
while (1) {
    ## Find beginning of line.
    $firstpos = rindex $s->{buf}, $rs, $lastpos - 1;
    if ($firstpos == -1) {
 $offset = 0;
    }
    else {
 $offset = $firstpos + length $rs;
    }

    ## Determine length of line with and without separator.
    $len_wo_sep = $lastpos - $offset;
    $len_w_sep = $len_wo_sep + length $rs;

    ## Save line if it's not blank.
    if (substr($s->{buf}, $offset, $len_wo_sep)
 !~ /^\s*$/)
    {
 $s->{last_line} = substr($s->{buf},
     $offset,
     $len_w_sep);
 last;
    }

    last if $firstpos == -1;

    $lastpos = $firstpos;
}
  }

  1;
} # end sub _save_lastline


sub _set_default_option {
  my ($s, $option) = @_;

  $s->{opts}{$option} = {
 remote_enabled   => '',
```

```
 remote_state     => "no",
 remote_enable_ok => '',
 local_enabled    => '',
 local_state      => "no",
 local_enable_ok  => '',
   };
} # end sub _set_default_option


sub _sleep {
   my ($secs) = @_;
   my $bitmask = "";
   local *SOCK;

   socket SOCK, AF_INET, SOCK_STREAM, 0;
   vec($bitmask, fileno(SOCK), 1) = 1;
   select $bitmask, "", "", $secs;
   CORE::close SOCK;

   1;
} # end sub _sleep


sub _timeout_interval {
   my ($endtime) = @_;
   my (
 $timeout,
 );

   ## Return timed-out boolean and timeout interval.
   if (defined $endtime) {
 ## Is it a one-time poll.
 return ('', 0) if $endtime == 0;

 ## Calculate the timeout interval.
 $timeout = $endtime - time;

 ## Did we already timeout.
 return (1, 0) unless $timeout > 0;

 return ('', $timeout);
   }
   else {  # there is no timeout
 return ('', undef);
   }
} # end sub _timeout_interval
```

```
sub _user_caller {
  my ($obj) = @_;
  my (
 $class,
 $curr_pkg,
 $file,
 $i,
 $line,
 $pkg,
 %isa,
 @isa,
 );
  local $_;

  ## Create a boolean hash to test for isa.  Make sure current
  ## package and the object's class are members.
  $class = ref $obj;
  @isa = eval "\@${class}::ISA";
  push @isa, $class;
  ($curr_pkg) = caller 1;
  push @isa, $curr_pkg;
  %isa = map { $_ => 1 } @isa;

  ## Search back in call frames for a package that's not in isa.
  $i = 1;
  while (($pkg, $file, $line) = caller ++$i) {
 next if $isa{$pkg};

 return ($pkg, $file, $line);
  }

  ## If not found, choose outer most call frame.
  ($pkg, $file, $line) = caller --$i;
  return ($pkg, $file, $line);
} # end sub _user_caller



sub _verify_telopt_arg {
  my ($self, $option, $argname) = @_;

  ## If provided, use argument name in error message.
  if (defined $argname) {
 $argname = "for arg $argname";
  }
  else {
 $argname = "";
  }
```

```
  ## Ensure telnet option is a non-negative integer.
  eval {
 local $SIG{"__DIE__"} = "DEFAULT";
 local $SIG{"__WARN__"} = sub { die "non-numeric\n" };
 local $^W = 1;
 $option = abs(int $option);
  };
  return $self->error("bad telnet option $argname: non-numeric")
 if $@;

  return $self->error("bad telnet option $argname: option > 255")
 unless $option <= 255;

  $option;
} # end sub _verify_telopt_arg


######################### Exported Constants ############################


sub TELNET_IAC ()     {255}; # interpret as command:
sub TELNET_DONT ()    {254}; # you are not to use option
sub TELNET_DO ()      {253}; # please, you use option
sub TELNET_WONT ()    {252}; # I won't use option
sub TELNET_WILL ()    {251}; # I will use option
sub TELNET_SB ()      {250}; # interpret as subnegotiation
sub TELNET_GA ()      {249}; # you may reverse the line
sub TELNET_EL ()      {248}; # erase the current line
sub TELNET_EC ()      {247}; # erase the current character
sub TELNET_AYT ()     {246}; # are you there
sub TELNET_AO ()      {245}; # abort output--but let prog finish
sub TELNET_IP ()      {244}; # interrupt process--permanently
sub TELNET_BREAK ()   {243}; # break
sub TELNET_DM ()      {242}; # data mark--for connect. cleaning
sub TELNET_NOP ()     {241}; # nop
sub TELNET_SE ()      {240}; # end sub negotiation
sub TELNET_EOR ()     {239}; # end of record (transparent mode)
sub TELNET_ABORT ()   {238}; # Abort process
sub TELNET_SUSP ()    {237}; # Suspend process
sub TELNET_EOF ()     {236}; # End of file
sub TELNET_SYNCH ()   {242}; # for telfunc calls

sub TELOPT_BINARY ()      {0}; # Binary Transmission
sub TELOPT_ECHO ()        {1}; # Echo
sub TELOPT_RCP ()         {2}; # Reconnection
sub TELOPT_SGA ()         {3}; # Suppress Go Ahead
sub TELOPT_NAMS ()        {4}; # Approx Message Size Negotiation
sub TELOPT_STATUS ()      {5}; # Status
```

```
sub TELOPT_TM ()       {6}; # Timing Mark
sub TELOPT_RCTE ()       {7}; # Remote Controlled Trans and Echo
sub TELOPT_NAOL ()       {8}; # Output Line Width
sub TELOPT_NAOP ()       {9}; # Output Page Size
sub TELOPT_NAOCRD ()      {10}; # Output Carriage-Return Disposition
sub TELOPT_NAOHTS ()      {11}; # Output Horizontal Tab Stops
sub TELOPT_NAOHTD ()      {12}; # Output Horizontal Tab Disposition
sub TELOPT_NAOFFD ()      {13}; # Output Formfeed Disposition
sub TELOPT_NAOVTS ()      {14}; # Output Vertical Tabstops
sub TELOPT_NAOVTD ()      {15}; # Output Vertical Tab Disposition
sub TELOPT_NAOLFD ()      {16}; # Output Linefeed Disposition
sub TELOPT_XASCII ()      {17}; # Extended ASCII
sub TELOPT_LOGOUT ()      {18}; # Logout
sub TELOPT_BM ()      {19}; # Byte Macro
sub TELOPT_DET ()      {20}; # Data Entry Terminal
sub TELOPT_SUPDUP ()      {21}; # SUPDUP
sub TELOPT_SUPDUPOUTPUT ()   {22}; # SUPDUP Output
sub TELOPT_SNDLOC ()      {23}; # Send Location
sub TELOPT_TTYPE ()      {24}; # Terminal Type
sub TELOPT_EOR ()      {25}; # End of Record
sub TELOPT_TUID ()      {26}; # TACACS User Identification
sub TELOPT_OUTMRK ()      {27}; # Output Marking
sub TELOPT_TTYLOC ()      {28}; # Terminal Location Number
sub TELOPT_3270REGIME ()      {29}; # Telnet 3270 Regime
sub TELOPT_X3PAD ()      {30}; # X.3 PAD
sub TELOPT_NAWS ()      {31}; # Negotiate About Window Size
sub TELOPT_TSPEED ()      {32}; # Terminal Speed
sub TELOPT_LFLOW ()      {33}; # Remote Flow Control
sub TELOPT_LINEMODE ()      {34}; # Linemode
sub TELOPT_XDISPLOC ()      {35}; # X Display Location
sub TELOPT_OLD_ENVIRON ()    {36}; # Environment Option
sub TELOPT_AUTHENTICATION () {37}; # Authentication Option
sub TELOPT_ENCRYPT ()      {38}; # Encryption Option
sub TELOPT_NEW_ENVIRON ()    {39}; # New Environment Option
sub TELOPT_EXOPL ()     {255}; # Extended-Options-List


1;
__END__;


########################## User Documentation ##########################


## To format the following documentation into a more readable format,
## use one of these programs: perldoc; pod2man; pod2html; pod2text.
## For example, to nicely format this documentation for printing, you
## may use pod2man and groff to convert to postscript:
```

pod2man Net/Telnet.pm | groff -man -Tps > Net::Telnet.ps

=head1 NAME

Net::Telnet - interact with TELNET port or other TCP ports

=head1 SYNOPSIS

C<use Net::Telnet ();>

see METHODS section below

=head1 DESCRIPTION

Net::Telnet allows you to make client connections to a TCP port and do
network I/O, especially to a port using the TELNET protocol. Simple
I/O methods such as print, get, and getline are provided. More
sophisticated interactive features are provided because connecting to
a TELNET port ultimately means communicating with a program designed
for human interaction. These interactive features include the ability
to specify a time-out and to wait for patterns to appear in the input
stream, such as the prompt from a shell.

Other reasons to use this module than strictly with a TELNET port are:

=over 2

=item *

You're not familiar with sockets and you want a simple way to make
client connections to TCP services.

=item *

You want to be able to specify your own time-out while connecting,
reading, or writing.

=item *

You're communicating with an interactive program at the other end of
some socket or pipe and you want to wait for certain patterns to
appear.

=back

Here's an example that prints who's logged-on to the remote host
sparky. In addition to a username and password, you must also know
the user's shell prompt, which for this example is C<bash$>

```
use Net::Telnet ();
$t = new Net::Telnet (Timeout => 10,
                      Prompt => '/bash\$ $/');
$t->open("sparky");
$t->login($username, $passwd);
@lines = $t->cmd("who");
print @lines;
```

More examples are in the B<EXAMPLES> section below.

Usage questions should be directed to the Usenet newsgroup comp.lang.perl.modules.

Contact me, Jay Rogers <jay@rgrs.com>, if you find any bugs or have suggestions for improvement.

=head2 What To Know Before Using

=over 2

=item *

All output is flushed while all input is buffered. Each object contains its own input buffer.

=item *

The output record separator for C<print()> and C<cmd()> is set to C<"\n"> by default, so that you don't have to append all your commands with a newline. To avoid printing a trailing C<"\n"> use C<put()> or set the I<output_record_separator> to C<"">.

=item *

The methods C<login()> and C<cmd()> use the I<prompt> setting in the object to determine when a login or remote command is complete. Those methods will fail with a time-out if you don't set the prompt correctly.

=item *

Use a combination of C<print()> and C<waitfor()> as an alternative to C<login()> or C<cmd()> when they don't do what you want.

=item *

Errors such as timing-out are handled according to the error mode

action. The default action is to print an error message to standard error and have the program die. See the C<errmode()> method for more information.

=item *

When constructing the match operator argument for C<prompt()> or C<waitfor()>, always use single quotes instead of double quotes to avoid unexpected backslash interpretation (e.g. C</bash\$ $/'>). If you're constructing a DOS like file path, you'll need to use four backslashes to represent one (e.g. C</c:\\\\users\\\\billE<gt>$/i'>).

Of course don't forget about regexp metacharacters like C<.>, C<[>, or C<$>. You'll only need a single backslash to quote them. The anchor metacharacters C<^> and C<$> refer to positions in the input buffer. To avoid matching characters read that look like a prompt, it's a good idea to end your prompt pattern with the C<$> anchor. That way the prompt will only match if it's the last thing read.

=item *

In the input stream, each sequence of I<carriage return> and I<line feed> (i.e. C<"\015\012"> or CR LF) is converted to C<"\n">. In the output stream, each occurrence of C<"\n"> is converted to a sequence of CR LF. See C<binmode()> to change the behavior. TCP protocols typically use the ASCII sequence, carriage return and line feed to designate a newline.

=item *

Timing-out while making a connection is disabled for machines that don't support the C<alarm()> function. Most notably these include MS-Windows machines.

=item *

You'll need to be running at least Perl version 5.002 to use this module. This module does not require any libraries that don't already come with a standard Perl distribution.

If you have the IO:: libraries installed (they come standard with perl5.004 and later) then IO::Socket::INET is used as a base class, otherwise FileHandle is used.

=item *

Contact me, Jay Rogers <jay@rgrs.com>, if you find any bugs or have suggestions for improvement.

=back

=head2 Debugging

The typical usage bug causes a time-out error because you've made
incorrect assumptions about what the remote side actually sends. The
easiest way to reconcile what the remote side sends with your
expectations is to use C<input_log()> or C<dump_log()>.

C<dump_log()> allows you to see the data being sent from the remote
side before any translation is done, while C<input_log()> shows you
the results after translation. The translation includes converting
end of line characters, removing and responding to TELNET protocol
commands in the data stream.

=head2 Style of Named Parameters

Two different styles of named parameters are supported. This document
only shows the IO:: style:

  Net::Telnet->new(Timeout => 20);

however the dash-option style is also allowed:

  Net::Telnet->new(-timeout => 20);

=head2 Connecting to a Remote MS-Windows Machine

By default MS-Windows doesn't come with a TELNET server. However
third party TELNET servers are available. Unfortunately many of these
servers falsely claim to be a TELNET server. This is especially true
of the so-called "Microsoft Telnet Server" that comes installed with
some newer versions MS-Windows.

When a TELNET server first accepts a connection, it must use the ASCII
control characters carriage-return and line-feed to start a new line
(see RFC854). A server like the "Microsoft Telnet Server" that
doesn't do this, isn't a TELNET server. These servers send ANSI
terminal escape sequences to position to a column on a subsequent line
and to even position while writing characters that are adjacent to
each other. Worse, when sending output these servers resend
previously sent command output in a misguided attempt to display an
entire terminal screen.

Connecting Net::Telnet to one of these false TELNET servers makes your
job of parsing command output very difficult. It's better to replace
a false TELNET server with a real TELNET server. The better TELNET

servers for MS-Windows allow you to avoid the ANSI escapes by turning off something some of them call I<console mode>.

=head1 METHODS

In the calling sequences below, square brackets B<[]> represent optional parameters.

=over 4

=item B<new> - create a new Net::Telnet object

```
$obj = new Net::Telnet ([$host]);

$obj = new Net::Telnet ([Binmode    => $mode,]
                        [Cmd_remove_mode => $mode,]
                        [Dump_Log   => $filename,]
                        [Errmode    => $errmode,]
                        [Fhopen     => $filehandle,]
                        [Host       => $host,]
                        [Input_log  => $file,]
                        [Input_record_separator => $chars,]
                        [Option_log => $file,]
                        [Ors        => $chars,]
                        [Output_log => $file,]
                        [Output_record_separator => $chars,]
                        [Port       => $port,]
                        [Prompt     => $matchop,]
                        [Rs         => $chars,]
                        [Telnetmode => $mode,]
                        [Timeout    => $secs,]);
```

This is the constructor for Net::Telnet objects. A new object is returned on success, the error mode action is performed on failure - see C<errmode()>. The optional arguments are short-cuts to methods of the same name.

If the I<$host> argument is given then the object is opened by connecting to TCP I<$port> on I<$host>. Also see C<open()>. The new object returned is given the following defaults in the absence of corresponding named parameters:

=over 4

=item

The default I<Host> is C<"localhost">

=item

The default I<Port> is C<23>

=item

The default I<Prompt> is C<'/[\$%#E<gt>] $/'>

=item

The default I<Timeout> is C<10>

=item

The default I<Errmode> is C<"die">

=item

The default I<Output_record_separator> is C<"\n">. Note that I<Ors>
is synonymous with I<Output_record_separator>.

=item

The default I<Input_record_separator> is C<"\n">. Note that I<Rs> is
synonymous with I<Input_record_separator>.

=item

The default I<Binmode> is C<0>, which means do newline translation.

=item

The default I<Telnetmode> is C<1>, which means respond to TELNET
commands in the data stream.

=item

The default I<Cmd_remove_mode> is C<"auto">

=item

The defaults for I<Dump_log>, I<Input_log>, I<Option_log>, and
I<Output_log> are C<"">, which means that logging is turned-off.

=back

=back

=over 4

=item B<binmode> - toggle newline translation

  $mode = $obj->binmode;

  $prev = $obj->binmode($mode);

This method controls whether or not sequences of carriage returns and line feeds (CR LF or more specifically C<"\015\012">) are translated. By default they are translated (i.e. binmode is C<0>).

If no argument is given, the current mode is returned.

If I<$mode> is C<1> then binmode is I<on> and newline translation is not done.

If I<$mode> is C<0> then binmode is I<off> and newline translation is done. In the input stream, each sequence of CR LF is converted to C<"\n"> and in the output stream, each occurrence of C<"\n"> is converted to a sequence of CR LF.

Note that input is always buffered. Changing binmode doesn't effect what's already been read into the buffer. Output is not buffered and changing binmode will have an immediate effect.

=back

=over 4

=item B<break> - send TELNET break character

  $ok = $obj->break;

This method sends the TELNET break character. This character is provided because it's a signal outside the ASCII character set which is currently given local meaning within many systems. It's intended to indicate that the Break Key or the Attention Key was hit.

This method returns C<1> on success, or performs the error mode action on failure.

=back

=over 4

=item B<buffer> - scalar reference to object's input buffer

  $ref = $obj->buffer;

This method returns a scalar reference to the input buffer for
I<$obj>. Data in the input buffer is data that has been read from the
remote side but has yet to be read by the user. Modifications to the
input buffer are returned by a subsequent read.

=back

=over 4

=item B<buffer_empty> - discard all data in object's input buffer

  $obj->buffer_empty;

This method removes all data in the input buffer for I<$obj>.

=back

=over 4

=item B<close> - close object

  $ok = $obj->close;

This method closes the socket, file, or pipe associated with the
object. It always returns a value of C<1>.

=back

=over 4

=item B<cmd> - issue command and retrieve output

  $ok = $obj->cmd($string);
  $ok = $obj->cmd(String   => $string,
                  [Output => $ref,]
                  [Cmd_remove_mode => $mode,]
                  [Errmode => $mode,]
                  [Input_record_separator => $chars,]
                  [Ors   => $chars,]

```
            [Output_record_separator => $chars,]
            [Prompt  => $match,]
            [Rs      => $chars,]
            [Timeout => $secs,]);

  @output = $obj->cmd($string);
  @output = $obj->cmd(String   => $string,
              [Output  => $ref,]
              [Cmd_remove_mode => $mode,]
              [Errmode => $mode,]
              [Input_record_separator => $chars,]
              [Ors     => $chars,]
              [Output_record_separator => $chars,]
              [Prompt  => $match,]
              [Rs      => $chars,]
              [Timeout => $secs,]);
```

This method sends the command I<$string>, and reads the characters sent back by the command up until and including the matching prompt. It's assumed that the program to which you're sending is some kind of command prompting interpreter such as a shell.

The command I<$string> is automatically appended with the output_record_separator, By default that's C<"\n">. This is similar to someone typing a command and hitting the return key. Set the output_record_separator to change this behavior.

In a scalar context, the characters read from the remote side are discarded and C<1> is returned on success. On time-out, eof, or other failures, the error mode action is performed. See C<errmode()>.

In a list context, just the output generated by the command is returned, one line per element. In other words, all the characters in between the echoed back command string and the prompt are returned. If the command happens to return no output, a list containing one element, the empty string is returned. This is so the list will indicate true in a boolean context. On time-out, eof, or other failures, the error mode action is performed. See C<errmode()>.

The characters that matched the prompt may be retrieved using C<last_prompt()>.

Many command interpreters echo back the command sent. In most situations, this method removes the first line returned from the remote side (i.e. the echoed back command). See C<cmd_remove_mode()> for more control over this feature.

Use C<dump_log()> to debug when this method keeps timing-out and you

don't think it should.

Consider using a combination of C<print()> and C<waitfor()> as an alternative to this method when it doesn't do what you want, e.g. the command you send prompts for input.

The I<Output> named parameter provides an alternative method of receiving command output. If you pass a scalar reference, all the output (even if it contains multiple lines) is returned in the referenced scalar. If you pass an array or hash reference, the lines of output are returned in the referenced array or hash. You can use C<input_record_separator()> to change the notion of what separates a line.

Optional named parameters are provided to override the current settings of cmd_remove_mode, errmode, input_record_separator, ors, output_record_separator, prompt, rs, and timeout. Rs is synonymous with input_record_separator and ors is synonymous with output_record_separator.

=back

=over 4

=item B<cmd_remove_mode> - toggle removal of echoed commands

```
$mode = $obj->cmd_remove_mode;

$prev = $obj->cmd_remove_mode($mode);
```

This method controls how to deal with echoed back commands in the output returned by cmd(). Typically, when you send a command to the remote side, the first line of output returned is the command echoed back. Use this mode to remove the first line of output normally returned by cmd().

If no argument is given, the current mode is returned.

If I<$mode> is C<0> then the command output returned from cmd() has no lines removed. If I<$mode> is a positive integer, then the first I<$mode> lines of command output are stripped.

By default, I<$mode> is set to C<"auto">. Auto means that whether or not the first line of command output is stripped, depends on whether or not the remote side offered to echo. By default, Net::Telnet always accepts an offer to echo by the remote side. You can change the default to reject such an offer using C<option_accept()>.

A warning is printed to STDERR when attempting to set this attribute
to something that's not C<"auto"> or a non-negative integer.

=back

=over 4

=item B<dump_log> - log all I/O in dump format

  $fh = $obj->dump_log;

  $fh = $obj->dump_log($fh);

  $fh = $obj->dump_log($filename);

This method starts or stops dump format logging of all the object's
input and output. The dump format shows the blocks read and written
in a hexadecimal and printable character format. This method is
useful when debugging, however you might want to first try
C<input_log()> as it's more readable.

If no argument is given, the current log filehandle is returned. An
empty string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned.
Otherwise, the argument is assumed to be the name of a file, the file
is opened and a filehandle to it is returned. If the file can't be
opened for writing, the error mode action is performed.

=back

=over 4

=item B<eof> - end of file indicator

  $eof = $obj->eof;

This method returns C<1> if end of file has been read, otherwise it
returns an empty string. Because the input is buffered this isn't the
same thing as I<$obj> has closed. In other words I<$obj> can be
closed but there still can be stuff in the buffer to be read. Under
this condition you can still read but you won't be able to write.

=back

=over 4

=item B<errmode> - define action to be performed on error

  $mode = $obj->errmode;

  $prev = $obj->errmode($mode);

This method gets or sets the action used when errors are encountered
using the object. The first calling sequence returns the current
error mode. The second calling sequence sets it to I<$mode> and
returns the previous mode. Valid values for I<$mode> are C<"die">
(the default), C<"return">, a I<coderef>, or an I<arrayref>.

When mode is C<"die"> and an error is encountered using the object,
then an error message is printed to standard error and the program
dies.

When mode is C<"return"> then the method generating the error places
an error message in the object and returns an undefined value in a
scalar context and an empty list in list context. The error message
may be obtained using C<errmsg()>.

When mode is a I<coderef>, then when an error is encountered
I<coderef> is called with the error message as its first argument.
Using this mode you may have your own subroutine handle errors. If
I<coderef> itself returns then the method generating the error returns
undefined or an empty list depending on context.

When mode is an I<arrayref>, the first element of the array must be a
I<coderef>. Any elements that follow are the arguments to I<coderef>.
When an error is encountered, the I<coderef> is called with its
arguments. Using this mode you may have your own subroutine handle
errors. If the I<coderef> itself returns then the method generating
the error returns undefined or an empty list depending on context.

A warning is printed to STDERR when attempting to set this attribute
to something that's not C<"die">, C<"return">, a I<coderef>, or an
I<arrayref> whose first element isn't a I<coderef>.

=back

=over 4

=item B<errmsg> - most recent error message

  $msg = $obj->errmsg;

  $prev = $obj->errmsg(@msgs);

The first calling sequence returns the error message associated with the object. The empty string is returned if no error has been encountered yet. The second calling sequence sets the error message for the object to the concatenation of I<@msgs> and returns the previous error message. Normally, error messages are set internally by a method when an error is encountered.

=back

=over 4

=item B<error> - perform the error mode action

  $obj->error(@msgs);

This method concatenates I<@msgs> into a string and places it in the object as the error message. Also see C<errmsg()>. It then performs the error mode action. Also see C<errmode()>.

If the error mode doesn't cause the program to die, then an undefined value or an empty list is returned depending on the context.

This method is primarily used by this class or a sub-class to perform the user requested action when an error is encountered.

=back

=over 4

=item B<fhopen> - use already open filehandle for I/O

  $ok = $obj->fhopen($fh);

This method associates the open filehandle I<$fh> with I<$obj> for further I/O. Filehandle I<$fh> must already be opened.

Suppose you want to use the features of this module to do I/O to something other than a TCP port, for example STDIN or a filehandle opened to read from a process. Instead of opening the object for I/O to a TCP port by using C<open()> or C<new()>, call this method

instead.

The value C<1> is returned success, the error mode action is performed
on failure.

=back

=over 4

=item B<get> - read block of data

```
  $data = $obj->get([Binmode    => $mode,]
                    [Errmode    => $errmode,]
                    [Telnetmode => $mode,]
                    [Timeout    => $secs,]);
```

This method reads a block of data from the object and returns it along
with any buffered data. If no buffered data is available to return,
it will wait for data to read using the timeout specified in the
object. You can override that timeout using I<$secs>. Also see
C<timeout()>. If buffered data is available to return, it also checks
for a block of data that can be immediately read.

On eof an undefined value is returned. On time-out or other failures,
the error mode action is performed. To distinguish between eof or an
error occurring when the error mode is not set to C<"die">, use
C<eof()>.

Optional named parameters are provided to override the current
settings of binmode, errmode, telnetmode, and timeout.

=back

=over 4

=item B<getline> - read next line

```
  $line = $obj->getline([Binmode    => $mode,]
                        [Errmode    => $errmode,]
                        [Input_record_separator => $chars,]
                        [Rs         => $chars,]
                        [Telnetmode => $mode,]
                        [Timeout    => $secs,]);
```

This method reads and returns the next line of data from the object.
You can use C<input_record_separator()> to change the notion of what

separates a line. The default is C<"\n">. If a line isn't
immediately available, this method blocks waiting for a line or a
time-out.

On eof an undefined value is returned. On time-out or other failures,
the error mode action is performed. To distinguish between eof or an
error occurring when the error mode is not set to C<"die">, use
C<eof()>.

Optional named parameters are provided to override the current
settings of binmode, errmode, input_record_separator, rs, telnetmode,
and timeout. Rs is synonymous with input_record_separator.

=back

=over 4

=item B<getlines> - read next lines

```
  @lines = $obj->getlines([Binmode    => $mode,]
                          [Errmode    => $errmode,]
                          [Input_record_separator => $chars,]
                          [Rs         => $chars,]
                          [Telnetmode => $mode,]
                          [Timeout    => $secs,]
                          [All        => $boolean,]);
```

This method reads and returns all the lines of data from the object
until end of file is read. You can use C<input_record_separator()> to
change the notion of what separates a line. The default is C<"\n">.
A time-out error occurs if all the lines can't be read within the
time-out interval. See C<timeout()>.

The behavior of this method was changed in version 3.03. Prior to
version 3.03 this method returned just the lines available from the
next read. To get that old behavior, use the optional named parameter
I<All> and set I<$boolean> to C<""> or C<0>.

If only eof is read then an empty list is returned. On time-out or
other failures, the error mode action is performed. Use C<eof()> to
distinguish between reading only eof or an error occurring when the
error mode is not set to C<"die">.

Optional named parameters are provided to override the current
settings of binmode, errmode, input_record_separator, rs, telnetmode,
and timeout. Rs is synonymous with input_record_separator.

=back

=over 4

=item B<host> - name of remote host

  $host = $obj->host;

  $prev = $obj->host($host);

This method designates the remote host for C<open()>. With no
argument it returns the current host name set in the object. With an
argument it sets the current host name to I<$host> and returns the
previous host name. You may indicate the remote host using either a
hostname or an IP address.

The default value is C<"localhost">. It may also be set by C<open()>
or C<new()>.

=back

=over 4

=item B<input_log> - log all input

  $fh = $obj->input_log;

  $fh = $obj->input_log($fh);

  $fh = $obj->input_log($filename);

This method starts or stops logging of input. This is useful when
debugging. Also see C<dump_log()>. Because most command interpreters
echo back commands received, it's likely all your output will also be
in this log. Note that input logging occurs after newline
translation. See C<binmode()> for details on newline translation.

If no argument is given, the log filehandle is returned. An empty
string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned.
Otherwise, the argument is assumed to be the name of a file, the file
is opened for logging and a filehandle to it is returned. If the file
can't be opened for writing, the error mode action is performed.

=back

=over 4

=item B<input_record_separator> - input line delimiter

  $chars = $obj->input_record_separator;

  $prev = $obj->input_record_separator($chars);

This method designates the line delimiter for input. It's used with C<getline()>, C<getlines()>, and C<cmd()> to determine lines in the input.

With no argument this method returns the current input record separator set in the object. With an argument it sets the input record separator to I<$chars> and returns the previous value. Note that I<$chars> must have length.

A warning is printed to STDERR when attempting to set this attribute to a string with no length.

=back

=over 4

=item B<last_prompt> - last prompt read

  $string = $obj->last_prompt;

  $prev = $obj->last_prompt($string);

With no argument this method returns the last prompt read by cmd() or login(). See C<prompt()>. With an argument it sets the last prompt read to I<$string> and returns the previous value. Normally, only internal methods set the last prompt.

=back

=over 4

=item B<lastline> - last line read

  $line = $obj->lastline;

```
  $prev = $obj->lastline($line);
```

This method retrieves the last line read from the object. This may be a useful error message when the remote side abnormally closes the connection. Typically the remote side will print an error message before closing.

With no argument this method returns the last line read from the object. With an argument it sets the last line read to I<$line> and returns the previous value. Normally, only internal methods set the last line.

=back

=over 4

=item B<login> - perform standard login

```
  $ok = $obj->login($username, $password);

  $ok = $obj->login(Name     => $username,
                    Password => $password,
                    [Errmode => $mode,]
                    [Prompt  => $match,]
                    [Timeout => $secs,]);
```

This method performs a standard login by waiting for a login prompt and responding with I<$username>, then waiting for the password prompt and responding with I<$password>, and then waiting for the command interpreter prompt. If any of those prompts sent by the remote side don't match what's expected, this method will time-out, unless timeout is turned off.

Login prompt must match either of these case insensitive patterns:

```
  /login[: ]*$/i
  /username[: ]*$/i
```

Password prompt must match this case insensitive pattern:

```
  /password[: ]*$/i
```

The command interpreter prompt must match the current setting of prompt. See C<prompt()>.

Use C<dump_log()> to debug when this method keeps timing-out and you

don't think it should.

Consider using a combination of C<print()> and C<waitfor()> as an alternative to this method when it doesn't do what you want, e.g. the remote host doesn't prompt for a username.

On success, C<1> is returned. On time out, eof, or other failures, the error mode action is performed. See C<errmode()>.

Optional named parameters are provided to override the current settings of errmode, prompt, and timeout.

=back

=over 4

=item B<max_buffer_length> - maximum size of input buffer

  $len = $obj->max_buffer_length;

  $prev = $obj->max_buffer_length($len);

This method designates the maximum size of the input buffer. An error is generated when a read causes the buffer to exceed this limit. The default value is 1,048,576 bytes (1MB). The input buffer can grow much larger than the block size when you continuously read using C<getline()> or C<waitfor()> and the data stream contains no newlines or matching waitfor patterns.

With no argument, this method returns the current maximum buffer length set in the object. With an argument it sets the maximum buffer length to I<$len> and returns the previous value. Values of I<$len> smaller than 512 will be adjusted to 512.

A warning is printed to STDERR when attempting to set this attribute to something that isn't a positive integer.

=back

=over 4

=item B<ofs> - field separator for print

  $chars = $obj->ofs

  $prev = $obj->ofs($chars);

This method is synonymous with C<output_field_separator()>.

=back

=over 4

=item B<open> - connect to port on remote host

```
$ok = $obj->open($host);

$ok = $obj->open([Host    => $host,]
                 [Port    => $port,]
                 [Errmode => $mode,]
                 [Timeout => $secs,]);
```

This method opens a TCP connection to I<$port> on I<$host>. If either argument is missing then the current value of C<host()> or C<port()> is used. Optional named parameters are provided to override the current setting of errmode and timeout.

On success C<1> is returned. On time-out or other connection failures, the error mode action is performed. See C<errmode()>.

Time-outs don't work for this method on machines that don't implement SIGALRM - most notably MS-Windows machines. For those machines, an error is returned when the system reaches its own time-out while trying to connect.

A side effect of this method is to reset the alarm interval associated with SIGALRM.

=back

=over 4

=item B<option_accept> - indicate willingness to accept a TELNET option

```
$fh = $obj->option_accept([Do   => $telopt,]
                          [Dont => $telopt,]
                          [Will => $telopt,]
                          [Wont => $telopt,]);
```

This method is used to indicate whether to accept or reject an offer to enable a TELNET option made by the remote side. If you're using I<Do> or I<Will> to indicate a willingness to enable, then a

notification callback must have already been defined by a prior call
to C<option_callback()>. See C<option_callback()> for details on
receiving enable/disable notification of a TELNET option.

You can give multiple I<Do>, I<Dont>, I<Will>, or I<Wont> arguments
for different TELNET options in the same call to this method.

The following example describes the meaning of the named parameters.
A TELNET option, such as C<TELOPT_ECHO> used below, is an integer
constant that you can import from Net::Telnet. See the source in file
Telnet.pm for the complete list.

=over 4

=item

I<Do> => C<TELOPT_ECHO>

=over 4

=item

we'll accept an offer to enable the echo option on the local side

=back

=item

I<Dont> => C<TELOPT_ECHO>

=over 4

=item

we'll reject an offer to enable the echo option on the local side

=back

=item

I<Will> => C<TELOPT_ECHO>

=over 4

=item

we'll accept an offer to enable the echo option on the remote side

=back

=item

I<Wont> => C<TELOPT_ECHO>

=over 4

=item

we'll reject an offer to enable the echo option on the remote side

=back

=back

=item

Use C<option_send()> to send a request to the remote side to enable or
disable a particular TELNET option.

=back

=over 4

=item B<option_callback> - define the option negotiation callback

  $coderef = $obj->option_callback;

  $prev = $obj->option_callback($coderef);

This method defines the callback subroutine that's called when a
TELNET option is enabled or disabled. Once defined, the
I<option_callback> may not be undefined. However, calling this method
with a different I<$coderef> changes it.

A warning is printed to STDERR when attempting to set this attribute
to something that isn't a coderef.

Here are the circumstances that invoke I<$coderef>:

=over 4

=item

An option becomes enabled because the remote side requested an enable
and C<option_accept()> had been used to arrange that it be accepted.

=item

The remote side arbitrarily decides to disable an option that is currently enabled. Note that Net::Telnet always accepts a request to disable from the remote side.

=item

C<option_send()> was used to send a request to enable or disable an option and the response from the remote side has just been received. Note, that if a request to enable is rejected then I<$coderef> is still invoked even though the option didn't change.

=back

=item

Here are the arguments passed to I<&$coderef>:

```
  &$coderef($obj, $option, $is_remote,
            $is_enabled, $was_enabled, $buf_position);
```

=over 4

=item

1. I<$obj> is the Net::Telnet object

=item

2. I<$option> is the TELNET option. Net::Telnet exports constants for the various TELNET options which just equate to an integer.

=item

3. I<$is_remote> is a boolean indicating for which side the option applies.

=item

4. I<$is_enabled> is a boolean indicating the option is enabled or disabled

=item

5. I<$was_enabled> is a boolean indicating the option was previously enabled or disabled

=item

6. I<$buf_position> is an integer indicating the position in the
object's input buffer where the option takes effect. See C<buffer()>
to access the object's input buffer.

=back

=back

=over 4

=item B<option_log> - log all TELNET options sent or received

  $fh = $obj->option_log;

  $fh = $obj->option_log($fh);

  $fh = $obj->option_log($filename);

This method starts or stops logging of all TELNET options being sent
or received. This is useful for debugging when you send options via
C<option_send()> or you arrange to accept option requests from the
remote side via C<option_accept()>. Also see C<dump_log()>.

If no argument is given, the log filehandle is returned. An empty
string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned.
Otherwise, the argument is assumed to be the name of a file, the file
is opened for logging and a filehandle to it is returned. If the file
can't be opened for writing, the error mode action is performed.

=back

=over 4

=item B<option_send> - send TELNET option negotiation request

  $ok = $obj->option_send([Do   => $telopt,]
                          [Dont => $telopt,]
                          [Will => $telopt,]
                          [Wont => $telopt,]

[Async => $boolean,]);

This method is not yet implemented. Look for it in a future version.

=back

=over 4

=item B<option_state> - get current state of a TELNET option

  $hashref = $obj->option_state($telopt);

This method returns a hashref containing a copy of the current state
of TELNET option I<$telopt>.

Here are the values returned in the hash:

=over 4

=item

I<$hashref>->{remote_enabled}

=over 4

=item

boolean that indicates if the option is enabled on the remote side.

=back

=item

I<$hashref>->{remote_enable_ok}

=over 4

=item

boolean that indicates if it's ok to accept an offer to enable this
option on the remote side.

=back

=item

I<$hashref>->{remote_state}

=over 4

=item

string used to hold the internal state of option negotiation for this option on the remote side.

=back

=item

I<$hashref>->{local_enabled}

=over 4

=item

boolean that indicates if the option is enabled on the local side.

=back

=item

I<$hashref>->{local_enable_ok}

=over 4

=item

boolean that indicates if it's ok to accept an offer to enable this option on the local side.

=back

=item

I<$hashref>->{local_state}

=over 4

=item

string used to hold the internal state of option negotiation for this option on the local side.

=back

=back

=back

=over 4

=item B<ors> - output line delimiter

  $chars = $obj->ors;

  $prev = $obj->ors($chars);

This method is synonymous with C<output_record_separator()>.

=back

=over 4

=item B<output_field_separator> - field separator for print

  $chars = $obj->output_field_separator;

  $prev = $obj->output_field_separator($chars);

This method designates the output field separator for C<print()>.
Ordinarily the print method simply prints out the comma separated
fields you specify. Set this to specify what's printed between
fields.

With no argument this method returns the current output field
separator set in the object. With an argument it sets the output
field separator to I<$chars> and returns the previous value.

By default it's set to an empty string.

=back

=over 4

=item B<output_log> - log all output

  $fh = $obj->output_log;

  $fh = $obj->output_log($fh);

$fh = $obj->output_log($filename);

This method starts or stops logging of output. This is useful when debugging. Also see C<dump_log()>. Because most command interpreters echo back commands received, it's likely all your output would also be in an input log. See C<input_log()>. Note that output logging occurs before newline translation. See C<binmode()> for details on newline translation.

If no argument is given, the log filehandle is returned. An empty string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned. Otherwise, the argument is assumed to be the name of a file, the file is opened for logging and a filehandle to it is returned. If the file can't be opened for writing, the error mode action is performed.

=back

=over 4

=item B<output_record_separator> - output line delimiter

$chars = $obj->output_record_separator;

$prev = $obj->output_record_separator($chars);

This method designates the output line delimiter for C<print()> and C<cmd()>. Set this to specify what's printed at the end of C<print()> and C<cmd()>.

The output record separator is set to C<"\n"> by default, so there's no need to append all your commands with a newline. To avoid printing the output_record_separator use C<put()> or set the output_record_separator to an empty string.

With no argument this method returns the current output record separator set in the object. With an argument it sets the output record separator to I<$chars> and returns the previous value.

=back

=over 4

=item B<port> - remote port

  $port = $obj->port;

  $prev = $obj->port($port);

This method designates the remote TCP port. With no argument this
method returns the current port number. With an argument it sets the
current port number to I<$port> and returns the previous port. If
I<$port> is a TCP service name, then it's first converted to a port
number using the perl function C<getservbyname()>.

The default value is C<23>. It may also be set by C<open()> or
C<new()>.

A warning is printed to STDERR when attempting to set this attribute
to something that's not a positive integer or a valid TCP service
name.

=back

=over 4

=item B<print> - write to object

  $ok = $obj->print(@list);

This method writes I<@list> followed by the I<output_record_separator>
to the open object and returns C<1> if all data was successfully
written. On time-out or other failures, the error mode action is
performed. See C<errmode()>.

By default, the C<output_record_separator()> is set to C<"\n"> so all
your commands automatically end with a newline. In most cases your
output is being read by a command interpreter which won't accept a
command until newline is read. This is similar to someone typing a
command and hitting the return key. To avoid printing a trailing
C<"\n"> use C<put()> instead or set the output_record_separator to an
empty string.

On failure, it's possible that some data was written. If you choose
to try and recover from a print timing-out, use C<print_length()> to
determine how much was written before the error occurred.

You may also use the output field separator to print a string between
the list elements. See C<output_field_separator()>.

=back

=over 4

=item B<print_length> - number of bytes written by print

  $num = $obj->print_length;

This returns the number of bytes successfully written by the most
recent C<print()> or C<put()>.

=back

=over 4

=item B<prompt> - pattern to match a prompt

  $matchop = $obj->prompt;

  $prev = $obj->prompt($matchop);

This method sets the pattern used to find a prompt in the input
stream. It must be a string representing a valid perl pattern match
operator. The methods C<login()> and C<cmd()> try to read until
matching the prompt. They will fail with a time-out error if the
pattern you've chosen doesn't match what the remote side sends.

With no argument this method returns the prompt set in the object.
With an argument it sets the prompt to I<$matchop> and returns the
previous value.

The default prompt is C<'/[\$%#E<gt>] $/'>

Always use single quotes, instead of double quotes, to construct
I<$matchop> (e.g. C<'/bash\$ $/'>). If you're constructing a DOS like
file path, you'll need to use four backslashes to represent one
(e.g. C<'/c:\\\\users\\\\billE<gt>$/i'>).

Of course don't forget about regexp metacharacters like C<.>, C<[>, or
C<$>. You'll only need a single backslash to quote them. The anchor
metacharacters C<^> and C<$> refer to positions in the input buffer.

A warning is printed to STDERR when attempting to set this attribute
with a match operator missing its opening delimiter.

=back

=over 4

=item B<put> - write to object

```
$ok = $obj->put($string);

$ok = $obj->put(String      => $string,
                [Binmode    => $mode,]
                [Errmode    => $errmode,]
                [Telnetmode => $mode,]
                [Timeout    => $secs,]);
```

This method writes I<$string> to the opened object and returns C<1> if all data was successfully written. This method is like C<print()> except that it doesn't write the trailing output_record_separator ("\n" by default). On time-out or other failures, the error mode action is performed. See C<errmode()>.

On failure, it's possible that some data was written. If you choose to try and recover from a put timing-out, use C<print_length()> to determine how much was written before the error occurred.

Optional named parameters are provided to override the current settings of binmode, errmode, telnetmode, and timeout.

=back

=over 4

=item B<rs> - input line delimiter

```
$chars = $obj->rs;

$prev = $obj->rs($chars);
```

This method is synonymous with C<input_record_separator()>.

=back

=over 4

=item B<telnetmode> - turn off/on telnet command interpretation

```
$mode = $obj->telnetmode;
```

$prev = $obj->telnetmode($mode);

This method controls whether or not TELNET commands in the data stream
are recognized and handled. The TELNET protocol uses certain
character sequences sent in the data stream to control the session.
If the port you're connecting to isn't using the TELNET protocol, then
you should turn this mode off. The default is I<on>.

If no argument is given, the current mode is returned.

If I<$mode> is C<0> then telnet mode is off. If I<$mode> is C<1> then
telnet mode is on.

=back

=over 4

=item B<timed_out> - time-out indicator

$boolean = $obj->timed_out;

$prev = $obj->timed_out($boolean);

This method indicates if a previous read, write, or open method
timed-out. Remember that timing-out is itself an error. To be able
to invoke C<timed_out()> after a time-out error, you'd have to change
the default error mode to something other than C<"die">. See
C<errmode()>.

With no argument this method returns C<1> if the previous method
timed-out. With an argument it sets the indicator. Normally, only
internal methods set this indicator.

=back

=over 4

=item B<timeout> - I/O time-out interval

$secs = $obj->timeout;

$prev = $obj->timeout($secs);

This method sets the timeout interval that's used when performing I/O
or connecting to a port. When a method doesn't complete within the

timeout interval then it's an error and the error mode action is performed.

A timeout may be expressed as a relative or absolute value. If I<$secs> is greater than or equal to the time the program started, as determined by $^T, then it's an absolute time value for when time-out occurs. The perl function C<time()> may be used to obtain an absolute time value. For a relative time-out value less than $^T, time-out happens I<$secs> from when the method begins.

If I<$secs> is C<0> then time-out occurs if the data cannot be immediately read or written. Use the undefined value to turn off timing-out completely.

With no argument this method returns the timeout set in the object. With an argument it sets the timeout to I<$secs> and returns the previous value. The default timeout value is C<10> seconds.

A warning is printed to STDERR when attempting to set this attribute to something that's not an C<undef> or a non-negative integer.

=back

=over 4

=item B<waitfor> - wait for pattern in the input

```
  $ok = $obj->waitfor($matchop);
  $ok = $obj->waitfor([Match      => $matchop,]
                      [String     => $string,]
                      [Binmode    => $mode,]
                      [Errmode    => $errmode,]
                      [Telnetmode => $mode,]
                      [Timeout    => $secs,]);

  ($prematch, $match) = $obj->waitfor($matchop);
  ($prematch, $match) = $obj->waitfor([Match      => $matchop,]
                                      [String     => $string,]
                                      [Binmode    => $mode,]
                                      [Errmode    => $errmode,]
                                      [Telnetmode => $mode,]
                                      [Timeout    => $secs,]);
```

This method reads until a pattern match or string is found in the input stream. All the characters before and including the match are removed from the input stream.

In a list context the characters before the match and the matched characters are returned in I<$prematch> and I<$match>. In a scalar context, the matched characters and all characters before it are discarded and C<1> is returned on success. On time-out, eof, or other failures, for both list and scalar context, the error mode action is performed. See C<errmode()>.

You can specify more than one pattern or string by simply providing multiple I<Match> and/or I<String> named parameters. A I<$matchop> must be a string representing a valid Perl pattern match operator. The I<$string> is just a substring to find in the input stream.

Use C<dump_log()> to debug when this method keeps timing-out and you don't think it should.

An optional named parameter is provided to override the current setting of timeout.

To avoid unexpected backslash interpretation, always use single quotes instead of double quotes to construct a match operator argument for C<prompt()> and C<waitfor()> (e.g. C</bash\$ $/'>). If you're constructing a DOS like file path, you'll need to use four backslashes to represent one (e.g. C</c:\\\\users\\\\billE<gt>$/i'>).

Of course don't forget about regexp metacharacters like C<.>, C<[>, or C<$>. You'll only need a single backslash to quote them. The anchor metacharacters C<^> and C<$> refer to positions in the input buffer.

Optional named parameters are provided to override the current settings of binmode, errmode, telnetmode, and timeout.

=back

=head1 SEE ALSO

=over 2

=item RFC 854

S<TELNET Protocol Specification>

S<ftp://ftp.isi.edu/in-notes/rfc854.txt>

=item RFC 1143

S<Q Method of Implementing TELNET Option Negotiation>

S<ftp://ftp.isi.edu/in-notes/rfc1143.txt>

=item TELNET Option Assignments

S<http://www.iana.org/assignments/telnet-options>

=back

=head1 EXAMPLES

This example gets the current weather forecast for Brainerd, Minnesota.

```
  my ($forecast, $t);

  use Net::Telnet ();
  $t = new Net::Telnet;
  $t->open("rainmaker.wunderground.com");

  ## Wait for first prompt and "hit return".
  $t->waitfor('/continue:.*$/');
  $t->print("");

  ## Wait for second prompt and respond with city code.
  $t->waitfor('/city code.*$/');
  $t->print("BRD");

  ## Read and print the first page of forecast.
  ($forecast) = $t->waitfor('/[ \t]+press return to continue/i');
  print $forecast;

  exit;
```

This example checks a POP server to see if you have mail.

```
  my ($hostname, $line, $passwd, $pop, $username);

  $hostname = "your_destination_host_here";
  $username = "your_username_here";
  $passwd = "your_password_here";

  use Net::Telnet ();
  $pop = new Net::Telnet (Telnetmode => 0);
  $pop->open(Host => $hostname,
             Port => 110);
```

```
  ## Read connection message.
  $line = $pop->getline;
  die $line unless $line =~ /^\+OK/;

  ## Send user name.
  $pop->print("user $username");
  $line = $pop->getline;
  die $line unless $line =~ /^\+OK/;

  ## Send password.
  $pop->print("pass $passwd");
  $line = $pop->getline;
  die $line unless $line =~ /^\+OK/;

  ## Request status of messages.
  $pop->print("list");
  $line = $pop->getline;
  print $line;

  exit;
```

Here's an example that uses the ssh program to connect to a remote host. Because the ssh program reads and writes to its controlling terminal, the IO::Pty module is used to create a new pseudo terminal for use by ssh. A new Net::Telnet object is then created to read and write to that pseudo terminal. To use the code below, substitute "changeme" with the actual host, user, password, and command prompt.

```
  ## Main program.
  {
     my ($pty, $ssh, @lines);
     my $host = "changeme";
     my $user = "changeme";
     my $password = "changeme";
     my $prompt = '/changeme:~> $/';

     ## Start ssh program.
     $pty = &spawn("ssh", "-l", $user, $host);  # spawn() defined below

     ## Create a Net::Telnet object to perform I/O on ssh's tty.
     use Net::Telnet;
     $ssh = new Net::Telnet (-fhopen => $pty,
                             -prompt => $prompt,
                             -telnetmode => 0,
                             -cmd_remove_mode => 1,
                             -output_record_separator => "\r");
```

```
    ## Login to remote host.
    $ssh->waitfor(-match => '/password: ?$/i',
                  -errmode => "return")
       or die "problem connecting to host: ", $ssh->lastline;
    $ssh->print($password);
    $ssh->waitfor(-match => $ssh->prompt,
                  -errmode => "return")
       or die "login failed: ", $ssh->lastline;

    ## Send command, get and print its output.
    @lines = $ssh->cmd("who");
    print @lines;

    exit;
} # end main program

sub spawn {
    my(@cmd) = @_;
    my($pid, $pty, $tty, $tty_fd);

    ## Create a new pseudo terminal.
    use IO::Pty ();
    $pty = new IO::Pty
       or die $!;

    ## Execute the program in another process.
    unless ($pid = fork) {  # child process
       die "problem spawning program: $!\n" unless defined $pid;

       ## Disassociate process from existing controlling terminal.
       use POSIX ();
       POSIX::setsid
          or die "setsid failed: $!";

       ## Associate process with a new controlling terminal.
       $tty = $pty->slave;
       $tty_fd = $tty->fileno;
       close $pty;

       ## Make stdio use the new controlling terminal.
       open STDIN, "<&$tty_fd" or die $!;
       open STDOUT, ">&$tty_fd" or die $!;
       open STDERR, ">&STDOUT" or die $!;
       close $tty;

       ## Execute requested program.
       exec @cmd
          or die "problem executing $cmd[0]\n";
```

```
    } # end child process

    $pty;
  } # end sub spawn
```

Here's an example that changes a user's login password. Because the passwd program always prompts for passwords on its controlling terminal, the IO::Pty module is used to create a new pseudo terminal for use by passwd. A new Net::Telnet object is then created to read and write to that pseudo terminal. To use the code below, substitute "changeme" with the actual old and new passwords.

```
  my ($pty, $passwd);
  my $oldpw = "changeme";
  my $newpw = "changeme";

  ## Start passwd program.
  $pty = &spawn("passwd");  # spawn() defined above

  ## Create a Net::Telnet object to perform I/O on passwd's tty.
  use Net::Telnet;
  $passwd = new Net::Telnet (-fhopen => $pty,
                             -timeout => 2,
                             -output_record_separator => "\r",
                             -telnetmode => 0,
                             -cmd_remove_mode => 1);
  $passwd->errmode("return");

  ## Send existing password.
  $passwd->waitfor('/password: ?$/i')
     or die "no old password prompt: ", $passwd->lastline;
  $passwd->print($oldpw);

  ## Send new password.
  $passwd->waitfor('/new password: ?$/i')
     or die "bad old password: ", $passwd->lastline;
  $passwd->print($newpw);

  ## Send new password verification.
  $passwd->waitfor('/new password: ?$/i')
     or die "bad new password: ", $passwd->lastline;
  $passwd->print($newpw);

  ## Display success or failure.
  $passwd->waitfor('/changed/')
     or die "bad new password: ", $passwd->lastline;
  print $passwd->lastline;
```

```
$passwd->close;
exit;
```

Here's an example you can use to down load a file of any type. The file is read from the remote host's standard output using cat. To prevent any output processing, the remote host's standard output is put in raw mode using the Bourne shell. The Bourne shell is used because some shells, notably tcsh, prevent changing tty modes. Upon completion, FTP style statistics are printed to stderr.

```
my ($block, $filename, $host, $hostname, $k_per_sec, $line,
   $num_read, $passwd, $prevblock, $prompt, $size, $size_bsd,
   $size_sysv, $start_time, $total_time, $username);

$hostname = "your_destination_host_here";
$username = "your_username_here";
$passwd = "your_password_here";
$filename = "your_download_file_here";

## Connect and login.
use Net::Telnet ();
$host = new Net::Telnet (Timeout => 30,
                         Prompt => '/[%#>] $/');
$host->open($hostname);
$host->login($username, $passwd);

## Make sure prompt won't match anything in send data.
$prompt = "_funkyPrompt_";
$host->prompt("/$prompt\$/");
$host->cmd("set prompt = '$prompt'");

## Get size of file.
($line) = $host->cmd("/bin/ls -l $filename");
($size_bsd, $size_sysv) = (split ' ', $line)[3,4];
if ($size_sysv =~ /^\d+$/) {
   $size = $size_sysv;
}
elsif ($size_bsd =~ /^\d+$/) {
   $size = $size_bsd;
}
else {
   die "$filename: no such file on $hostname";
}

## Start sending the file.
binmode STDOUT;
```

```
  $host->binmode(1);
  $host->print("/bin/sh -c 'stty raw; cat $filename'");
  $host->getline;    # discard echoed back line

  ## Read file a block at a time.
  $num_read = 0;
  $prevblock = "";
  $start_time = time;
  while (($block = $host->get) and ($block !~ /$prompt$/o)) {
     if (length $block >= length $prompt) {
        print $prevblock;
        $num_read += length $prevblock;
        $prevblock = $block;
     }
     else {
        $prevblock .= $block;
     }

  }
  $host->close;

  ## Print last block without trailing prompt.
  $prevblock .= $block;
  $prevblock =~ s/$prompt$//;
  print $prevblock;
  $num_read += length $prevblock;
  die "error: expected size $size, received size $num_read\n"
     unless $num_read == $size;

  ## Print totals.
  $total_time = (time - $start_time) || 1;
  $k_per_sec = ($size / 1024) / $total_time;
  $k_per_sec = sprintf "%3.1f", $k_per_sec;
  warn("$num_read bytes received in $total_time seconds ",
      "($k_per_sec Kbytes/s)\n");

  exit;


=head1 AUTHOR

Jay Rogers <jay@rgrs.com>


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```

modify it under the same terms as Perl itself.
from README

Net::Telnet, version 3.03

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<snip>

Documentation

User documentation in POD format is contained within the module
source (i.e. the .pm file). Installing using "make install"
places this documentation in a man page in the perl library under
the directory "man/man3".

To nicely format the documentation for printing, you may use
"groff" to convert to postscript. Groff is available under
the GNU General Public License (GPL) and is installed on most
Linux machines.

pod2man Net/Telnet.pm | groff -man -Tps > Net::Telnet.ps

<snip>
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2.250 NetAddr::IP 4.075

2.250.1 Available under license :

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2.252 netkit-ftp 0.17

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2.254 nfs-utils 1.2.9

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2.255 Nmap-Parser 1.19

2.255.1 Available under license :

```
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#Anthony G. Persaud
#nmap2sqlite.pl
#Description:
# It takes in a nmap xml file and stores it into a SQLite database using DBI for
# searching, storing and better reporting. This is just an example of how an
# IP network database can be created using Nmap-Parser and automation.
#
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2.256 Nmap-Parser/nmap2db subpart 1.19

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#  nmap2db.pl
#  Description:
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#
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2.259 numactl 2.0.8

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<snip>

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Author:
Andi Kleen, SUSE Labs

Version 2.0.0 by Cliff Wickman, Christoph Lameter and Lee Schermerhorn
cpw@sgi.com clameter@sgi.com lee.schermerhorn@hp.com

from diff.numastat

<snip>

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-#

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<snip>

2.260 Number-Compare 0.03

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from /lib/Number/Compare.pm

<snip>

=head1 AUTHOR

Richard Clamp <richardc@unixbeard.net>

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=head1 SEE ALSO

http://physics.nist.gov/cuu/Units/binary.html

=cut
from META.yml

```
--- #YAML:1.0
name:               Number-Compare
version:            0.03
abstract:           ~
author:  []
license:            unknown
distribution_type:  module
configure_requires:
  ExtUtils::MakeMaker:  0
build_requires:
  ExtUtils::MakeMaker:  0
requires:
  Test::More:  0
no_index:
  directory:
    - t
    - inc
generated_by:       ExtUtils::MakeMaker version 6.57_05
meta-spec:
```

url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
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2.261 Object-MultiType 0.05

2.261.1 Available under license :

from MultiType.pm

<snip>

=head1 AUTHOR

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=cut

from README

######################
Object::MultiType
######################

Perl Objects as Hash, Array and Scalar at the same time.

###############
DESCRIPTION
###############

This module return an object that works like a Hash, Array and Scalar object at the same time.

** See POD for documentation.

################
INSTALLATION
################

To install this module type the following:

```
perl Makefile.PL
make
make test
```

```
 make install

##########
# AUTHOR #
##########

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2.262 openldap 2.4.31

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2.263 openssh 6.8p1

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 *
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 *
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 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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2.265 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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2.266 openssl-fips 1.2.2

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2.267 pam-redhat 0.99.9 :1

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*
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2.268 pam_ldap 184.0

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License

treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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"Source code" for a work means the preferred form of the work for

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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2.269 pam_radius 1.3.17

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2.270 pango 1.21.6

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That's all there is to it!
Pango is a library for layout and rendering of text, with an emphasis
on internationalization. Pango can be used anywhere that text layout
is needed; however, most of the work on Pango so far has been done using
the GTK+ widget toolkit as a test platform. Pango forms the core of text
and font handling for GTK+-2.x.

Pango is designed to be modular; the core Pango layout can be used
with different font backends. There are three basic backends, with
multiple options for rendering with each.

- Client side fonts using the FreeType and fontconfig libraries.
Rendering can be with with Cairo or Xft libraries, or directly
to an in-memory buffer with no additional libraries.

- Native fonts on Microsoft Windows using Uniscribe if available for
complex script handling. Rendering can be done via Cairo or
directly using the native Win32 API.

- Native fonts on MacOS X, rendering via Cairo.

The integration of Pango with Cairo (http://cairographics.org)

provides a complete solution with high quality text handling
and graphics rendering.

Dynamically loaded modules then handle text layout for particular
combinations of script and font backend.

As well as the low level layout rendering routines, Pango includes
PangoLayout, a high level driver for laying out entire blocks of text,
and routines to assist in editing internationalized text.

For more information about Pango, see:

http://www.pango.org/

Dependencies
============

Pango depends on the GLib library; more information about GLib can
be found at http://www.gtk.org/.

When using client side fonts, the fontconfig library
(http://www.fontconfig.org) to look up fonts. At least version 2.0.9
of the FreeType font handling library (http://www.freetype.org) is
also required.

Cairo support depends on the Cairo library (http://cairographics.org).
The Cairo backend is the preferred backend to use Pango with and is
subject of most of the development in the future. It has the
advantage that the same code can be used for display and printing.

We suggest using Pango with Cairo as described above, but you can also
do X-specific rendering using the Xft library. The Xft backend uses
version 2 of the Xft library to manage client side fonts. Version 2 of
Xft is available from http://xlibs.freedesktop.org/release/. You'll
need the libXft package, and possibly the libXrender and renderext
packages as well. You'll also need fontconfig (see below.)

Installation of Pango on Win32 is possible, but is not documented
here. See http://www.gimp.org/~tml/gimp/win32/downloads.html

Notes
=====

- By default, Pango tries to build itself so that no explicit
  dependency on Xft or FreeType will be introduced in apps that
  link to Pango. This is to avoid compatibility problems with
  changes in the Xft or FreeType API's or ABI's. Specifying
  --enable-explicit-deps or --enable-static when configuring Pango

will defeat this and should be avoided if possible.

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=======

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that the software is based in part of the work of the FreeType Team,
in the distribution documentation; for instance, by including this
README file.

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26 February 2007
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2.272 pari 2.3.4

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From README

<snip>

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To: Mez <mez@alum.mit.edu>
Sent: Tuesday, February 24, 2015 1:08 PM
Subject: Re: Passwd-Linux licensing

On 02/24/2015 09:55 AM, Mez wrote:
> Hi Eric,
>
> I'm contacting you as author of Passwd-Linux to clarify the licensing on
> Passwd-Linux. Can you verify that it is under the perl Artistic License
> used in CPAN? Thanks!

Yes it is. I guess this means I forgot to include a license file in the
tarball.

Eric

2.276 patch 2.7.5

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2.277 pciutils 3.0.1

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2.278 pcre 7.6

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Written by: Philip Hazel
Email local part: ph10
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2.279 perl 5.10.1

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

2.280 perl-ldap 0.39

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from README...

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2.281 PerlMagick 6.58

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2.282 pixman 0.11.10

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2.283 pkgtools 9.0

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#

# **********************************************************************
# Refer to the XF86Config(4/5) man page for details about the format of
# this file.
# **********************************************************************

# This XF86Config file is designed for use with the Linux framebuffer console.
# This generic interface should work with nearly all video cards (although
# not every card will support every resolution).  To use the Linux framebuffer
# console, you need to enable these kernel options:
# Using 'make menuconfig', in 'console drivers', enable:
#   [*] VGA text console
#   [*] Video mode selection support
#   [*] Support for frame buffer devices (EXPERIMENTAL)
#   [*] VESA VGA graphics console
#   [*] Advanced low level driver options
#   <*> 8 bpp packed pixels support
#   <*> 16 bpp packed pixels support
#   <*> 24 bpp packed pixels support
#   <*> 32 bpp packed pixels support
#   <*> VGA characters/attributes support
#   [*] Select compiled-in fonts
#   [*]   VGA 8x8 font
#   [*]   VGA 8x16 font
# If you have a Matrox or ATI Mach64, you might try enabling the options having
# to do with those cards as well.  However, if the card is VESA compliant, you
# don't really need to (and it might cause problems, possibly)
#
# Next, if this file is not already named /etc/X11/XF86Config, make a copy
# with that name.  This file ships with the name XF86Config-fbdev to avoid
# overwriting an existing config file.
#
# To get the kernel to start in VESA framebuffer mode, you need to pass it
# a vga= init string at boot time.  For example, if you use LILO you'll
# probably find a vga=normal string in your /etc/lilo.conf.  If you edit that
# to one of the values in this table:
```

```
#
#   Colours   640x480 800x600 1024x768 1280x1024 1600x1200
#  --------+-----------------------------------------
#  256     |  769     771     773     775      796
#  32,768  |  784     787     790     793      797
#  65,536  |  785     788     791     794      798
#  16.8M   |  786     789     792     795      799
#
#  ...such as this for 1024x768x64k:
#  vga = 791
#  and then reinstall LILO by running 'lilo' as root, then at the next boot
#  Linux should start in a VESA framebuffer console mode.
#
# For more information on how to activate the Linux frame buffer, see
# /usr/src/linux/Documentation/fb/vesafb.txt.
#
# Enjoy! :)
# -- volkerdi@slackware.com
#

# ****************************************************************************
# Module section -- this  section  is used to specify
# which dynamically loadable modules to load.
# ****************************************************************************
#
Section "Module"

# This loads the DBE extension module.

  Load       "dbe"   # Double buffer extension

# This loads the miscellaneous extensions module, and disables
# initialisation of the XFree86-DGA extension within that module.
  SubSection  "extmod"
    Option    "omit xfree86-dga"   # don't initialise the DGA extension
  EndSubSection

# This loads the font modules
  Load       "type1"
  Load       "freetype"
  Load       "speedo"

# This loads the GLX module
  Load      "glx"

EndSection

# ****************************************************************************
```

```
# Files section.  This allows default font and rgb paths to be set
# ****************************************************************************

Section "Files"

# The location of the RGB database.  Note, this is the name of the
# file minus the extension (like ".txt" or ".db").  There is normally
# no need to change the default.

  RgbPath "/usr/X11R6/lib/X11/rgb"

# Multiple FontPath entries are allowed (which are concatenated together),
# as well as specifying multiple comma-separated entries in one FontPath
# command (or a combination of both methods)
#
# If you don't have a floating point coprocessor and emacs, Mosaic or other
# programs take long to start up, try moving the Type1 and Speedo directory
# to the end of this list (or comment them out).
#

  FontPath   "/usr/X11R6/lib/X11/fonts/local/"
  FontPath   "/usr/X11R6/lib/X11/fonts/misc/"
  FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/:unscaled"
  FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/:unscaled"
  FontPath   "/usr/X11R6/lib/X11/fonts/Type1/"
  FontPath   "/usr/X11R6/lib/X11/fonts/CID/"
  FontPath   "/usr/X11R6/lib/X11/fonts/Speedo/"
  FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/"
  FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/"
  FontPath   "/usr/X11R6/lib/X11/fonts/cyrillic/"

# ModulePath can be used to set a search path for the X server modules.
# The default path is shown here.

#    ModulePath "/usr/X11R6/lib/modules"

EndSection

# ****************************************************************************
# Server flags section.
# ****************************************************************************

Section "ServerFlags"

# Uncomment this to cause a core dump at the spot where a signal is
# received.  This may leave the console in an unusable state, but may
# provide a better stack trace in the core dump to aid in debugging
```

```
#    Option     "NoTrapSignals"

# Uncomment this to disable the <Crtl><Alt><Fn> VT switch sequence
# (where n is 1 through 12).  This allows clients to receive these key
# events.

#    Option     "DontVTSwitch"

# Uncomment this to disable the <Crtl><Alt><BS> server abort sequence
# This allows clients to receive this key event.

#    Option     "DontZap"

# Uncomment this to disable the <Crtl><Alt><KP_+>/<KP_-> mode switching
# sequences.  This allows clients to receive these key events.

#    Option     "DontZoom"

# Uncomment this to disable tuning with the xvidtune client. With
# it the client can still run and fetch card and monitor attributes,
# but it will not be allowed to change them. If it tries it will
# receive a protocol error.

#    Option     "DisableVidModeExtension"

# Uncomment this to enable the use of a non-local xvidtune client.

#    Option     "AllowNonLocalXvidtune"

# Uncomment this to disable dynamically modifying the input device
# (mouse and keyboard) settings.

#    Option     "DisableModInDev"

# Uncomment this to enable the use of a non-local client to
# change the keyboard or mouse settings (currently only xset).

#    Option     "AllowNonLocalModInDev"

# Set the basic blanking screen saver timeout.

#    Option      "blank time"    "10"    # 10 minutes

# Set the DPMS timeouts.  These are set here because they are global
# rather than screen-specific.  These settings alone don't enable DPMS.
# It is enabled per-screen (or per-monitor), and even then only when
# the driver supports it.
```

```
#    Option      "standby time"  "20"
#    Option      "suspend time"  "30"
#    Option      "off time"      "60"

# On some platform the server needs to estimate the sizes of PCI
# memory and pio ranges. This is done by assuming that PCI ranges
# don't overlap. Some broken BIOSes tend to set ranges of inactive
# devices wrong. Here one can adjust how aggressive the assumptions
# should be. Default is 0.

# Option   "EstimateSizesAggresively" "0"

EndSection

# **********************************************************************
# Input devices
# **********************************************************************

# **********************************************************************
# Core keyboard's InputDevice section
# **********************************************************************

Section "InputDevice"

  Identifier "Keyboard1"
  Driver "Keyboard"
# For most OSs the protocol can be omitted (it defaults to "Standard").
# When using XQUEUE (only for SVR3 and SVR4, but not Solaris),
# uncomment the following line.

#    Option     "Protocol"      "Xqueue"

# Set the keyboard auto repeat parameters.  Not all platforms implement
# this.

#    Option     "AutoRepeat"    "500 5"

# Specifiy which keyboard LEDs can be user-controlled (eg, with xset(1)).

#    Option     "Xleds" "1 2 3"

# To disable the XKEYBOARD extension, uncomment XkbDisable.

#    Option     "XkbDisable"

# To customise the XKB settings to suit your keyboard, modify the
# lines below (which are the defaults).  For example, for a European
# keyboard, you will probably want to use one of:
```

```
#
#    Option     "XkbModel"      "pc102"
#    Option     "XkbModel"      "pc105"
#
# If you have a Microsoft Natural keyboard, you can use:
#
#    Option     "XkbModel"      "microsoft"
#
# If you have a US "windows" keyboard you will want:
#
#    Option     "XkbModel"      "pc104"
#
# Then to change the language, change the Layout setting.
# For example, a german layout can be obtained with:
#
#    Option     "XkbLayout"     "de"
#
# or:
#
#    Option     "XkbLayout"     "de"
#    Option     "XkbVariant"    "nodeadkeys"
#
# If you'd like to switch the positions of your capslock and
# control keys, use:
#
#    Option     "XkbOptions"    "ctrl:swapcaps"


# These are the default XKB settings for XFree86
#
#    Option     "XkbRules"      "xfree86"
#    Option     "XkbModel"      "pc101"
#    Option     "XkbLayout"     "us"
#    Option     "XkbVariant"    ""
#    Option     "XkbOptions"    ""

EndSection


# **********************************************************************
# Core Pointer's InputDevice section
# **********************************************************************

Section "InputDevice"

# Identifier and driver

   Identifier "Mouse1"
```

```
  Driver "mouse"

# On platforms where PnP mouse detection is supported the following
# protocol setting can be used when using a newer PnP mouse:

#    Option     "Protocol"      "Auto"

# The available mouse protocols types that you can set below are:
#    Auto BusMouse GlidePoint GlidePointPS/2 IntelliMouse IMPS/2
#    Logitech Microsoft MMHitTab MMSeries Mouseman MouseManPlusPS/2
#    MouseSystems NetMousePS/2 NetScrollPS/2 OSMouse PS/2 SysMouse
#    ThinkingMouse ThinkingMousePS/2 Xqueue
  Option "Protocol"    "PS/2"

# The mouse device.  The device is normally set to /dev/mouse,
# which is usually a symbolic link to the real device.

  Option "Device"      "/dev/mouse"
#   Option "Device"      "/dev/psaux"
#   Option "Device"      "/dev/ttyS0"
#   Option "Device"      "/dev/ttyS1"

# When using XQUEUE, comment out the above two lines, and uncomment
# the following line.

#    Option "Protocol" "Xqueue"

# Baudrate and SampleRate are only for some Logitech mice. In
# almost every case these lines should be omitted.

#    Option "BaudRate"  "9600"
#    Option "SampleRate" "150"

# Emulate3Buttons is an option for 2-button Microsoft mice
# Emulate3Timeout is the timeout in milliseconds (default is 50ms)

#    Option "Emulate3Buttons"
#    Option "Emulate3Timeout"    "50"

# ChordMiddle is an option for some 3-button Logitech mice

#    Option "ChordMiddle"

EndSection

# Some examples of extended input devices

# Section "InputDevice"
```

```
#    Identifier "spaceball"
#    Driver     "magellan"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier "spaceball2"
#    Driver     "spaceorb"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier "touchscreen0"
#    Driver     "microtouch"
#    Option     "Device"        "/dev/ttyS0"
#    Option     "MinX"          "1412"
#    Option     "MaxX"          "15184"
#    Option     "MinY"          "15372"
#    Option     "MaxY"          "1230"
#    Option     "ScreenNumber"  "0"
#    Option     "ReportingMode" "Scaled"
#    Option     "ButtonNumber"  "1"
#    Option     "SendCoreEvents"
# EndSection
#
# Section "InputDevice"
#    Identifier "touchscreen1"
#    Driver     "elo2300"
#    Option     "Device"        "/dev/ttyS0"
#    Option     "MinX"          "231"
#    Option     "MaxX"          "3868"
#    Option     "MinY"          "3858"
#    Option     "MaxY"          "272"
#    Option     "ScreenNumber"  "0"
#    Option     "ReportingMode" "Scaled"
#    Option     "ButtonThreshold"       "17"
#    Option     "ButtonNumber"  "1"
#    Option     "SendCoreEvents"
# EndSection

# ********************************************************************
# Monitor section
# ********************************************************************

# Any number of monitor sections may be present

Section "Monitor"
```

```
  Identifier  "My Monitor"

# HorizSync is in kHz unless units are specified.
# HorizSync may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY.  REFER TO YOUR MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

  HorizSync   31.5 - 50.0

#    HorizSync 30-64         # multisync
#    HorizSync 31.5, 35.2    # multiple fixed sync frequencies
#    HorizSync 15-25, 30-50  # multiple ranges of sync frequencies

# VertRefresh is in Hz unless units are specified.
# VertRefresh may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY.  REFER TO YOUR MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

  VertRefresh 40-90

EndSection


# **************************************************************************
# Graphics device section
# **************************************************************************

# Any number of graphics device sections may be present

Section "Device"
  Identifier  "VESA Framebuffer"
  Driver      "fbdev"
  #VideoRam    4096
  # Insert Clocks lines here if appropriate
EndSection

# **************************************************************************
# Screen sections
# **************************************************************************

# Any number of screen sections may be present.  Each describes
# the configuration of a single screen.  A single specific screen section
# may be specified from the X server command line with the "-screen"
# option.
Section "Screen"
  Identifier  "Screen 1"
```

```
  Device      "VESA Framebuffer"
  Monitor     "My Monitor"

# You shouldn't need to set a default depth as the server will use
# whatever the framebuffer is set to.  If you insist on setting it, make
# sure it matches the setting for your framebuffer.
#   DefaultDepth 8

  Subsection "Display"
     Depth       8
  EndSubsection
  Subsection "Display"
     Depth       16
  EndSubsection
  Subsection "Display"
     Depth       24
  EndSubsection
  Subsection "Display"
     Depth       32
  EndSubsection

EndSection

# **********************************************************************
# ServerLayout sections.
# **********************************************************************

# Any number of ServerLayout sections may be present.  Each describes
# the way multiple screens are organised.  A specific ServerLayout
# section may be specified from the X server command line with the
# "-layout" option.  In the absence of this, the first section is used.
# When now ServerLayout section is present, the first Screen section
# is used alone.

Section "ServerLayout"

# The Identifier line must be present
  Identifier  "Simple Layout"

# Each Screen line specifies a Screen section name, and optionally
# the relative position of other screens.  The four names after
# primary screen name are the screens to the top, bottom, left and right
# of the primary screen.  In this example, screen 2 is located to the
# right of screen 1.

  Screen "Screen 1"

# Each InputDevice line specifies an InputDevice section name and
```

```
# optionally some options to specify the way the device is to be
# used.  Those options include "CorePointer", "CoreKeyboard" and
# "SendCoreEvents".

  InputDevice "Mouse1" "CorePointer"
  InputDevice "Keyboard1" "CoreKeyboard"

EndSection
```

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#


 echo "WARNING: pkgtools are unstable with tar > 1.13."
 echo "         You should provide a \"tar-1.13\" in your \$PATH."
 sleep 5
fi

make_install_script() {
 COUNT=1
 LINE="'sed -n "$COUNT p" $1'"
 while [ ! "$LINE" = "" ]; do
  LINKGOESIN="'echo "$LINE" | cut -f 1 -d " "'"
  LINKGOESIN="'dirname $LINKGOESIN'"
  LINKNAMEIS="'echo "$LINE" | cut -f 1 -d ' "'"
  LINKNAMEIS="'basename "$LINKNAMEIS"'"
  LINKPOINTSTO="'echo "$LINE" | cut -f 3 -d ' "'"
  echo "( cd $LINKGOESIN ; rm -rf $LINKNAMEIS )"
  echo "( cd $LINKGOESIN ; ln -sf $LINKPOINTSTO $LINKNAMEIS )"
  COUNT='expr $COUNT + 1'
  LINE="'sed -n "$COUNT p" $1'"
 done
}

usage() {
 cat << EOF

Usage: makepkg package_name.tgz

Makes a Slackware compatible "*.tgz" package containing the contents of the
current and all subdirectories. If symbolic links exist, they will be removed
and an installation script will be made to recreate them later. This script
will be called "install/doinst.sh". You may add any of your own ash-compatible
shell scripts to this file and rebuild the package if you wish.

options:      -l, --linkadd y|n (moves symlinks into doinst.sh: recommended)
              -c, --chown y|n (resets all permissions to root:root 755
                          - not generally recommended)

If these options are not set, makepkg will prompt as appropriate.
```

```
EOF
}

TMP=/tmp # This can be a hole, but I'm going to be careful about file
        # creation in there, so don't panic. :^)

# Parse options
while [ 0 ]; do
 if [ "$1" = "--linkadd" -o "$1" = "-l" ]; then
   if [ "$2" = "y" ]; then
     LINKADD=y
   elif [ "$2" = "n" ]; then
     LINKADD=n
   else
     usage
     exit 2
   fi
   shift 2
 elif [ "$1" = "--chown" -o "$1" = "-c" ]; then
   if [ "$2" = "y" ]; then
     CHOWN=y
   elif [ "$2" = "n" ]; then
     CHOWN=n
   else
     usage
     exit 2
   fi
   shift 2
 elif [ "$1" = "-h" -o "$1" = "-H" -o "$1" = "--help" -o $# = 0 ]; then
   usage
   exit 0
 else
   break
 fi
done

echo
echo "Slackware package maker, version 2.0."
PACKAGE_NAME=$1
TARGET_NAME="'dirname $PACKAGE_NAME'"
PACKAGE_NAME="'basename $PACKAGE_NAME'"
TAR_NAME="'basename $PACKAGE_NAME .tgz'"
echo
echo "Searching for symbolic links:"
# Get rid of possible pre-existing trouble:
INST='mktemp $TMP/makepkg.XXXXXX'
find . -type l -exec ls -l {} \; | while read foo ; do echo $foo ; done | cut -f 9- -d ' ' | cut -b3- | tee $INST
if [ ! "'cat $INST'" = "" ]; then
```

```
 echo
 echo "Making symbolic link creation script:"
 make_install_script $INST | tee doinst.sh
fi
echo
if [ ! "'cat $INST"' = "" ]; then
 if [ -r install/doinst.sh ]; then
  echo "Unless your existing installation script already comtains the code"
  echo "to create these links, you should append these lines to your existing"
  echo "install script. Now's your chance. :^)"
  echo
  echo "Would you like to add this stuff to the existing install script and"
  echo -n "remove the symbolic links ([y]es, [n]o)? "
 else
  echo "It is recommended that you make these lines your new installation script."
  echo
  echo "Would you like to make this stuff the install script for this package"
  echo -n "and remove the symbolic links ([y]es, [n]o)? "
 fi
 if [ ! "$LINKADD" ]; then
  read LINKADD;
  echo
 else
  echo $LINKADD
  echo
 fi
 if [ "$LINKADD" = "y" ]; then
  if [ -r install/doinst.sh ]; then
   UPDATE="t"
   cat doinst.sh >> install/doinst.sh
  else
   mkdir install
   cat doinst.sh > install/doinst.sh
  fi
  echo
  echo "Removing symbolic links:"
  find . -type l -exec rm -v {} \;
  echo
  if [ "$UPDATE" = "t" ]; then
   echo "Updating your ./install/doinst.sh..."
  else
   echo "Creating your new ./install/doinst.sh..."
  fi
 fi
else
 echo "No symbolic links were found, so we won't make an installation script."
 echo "You can make your own later in ./install/doinst.sh and rebuild the"
 echo "package if you like."
```

```
fi
rm -f doinst.sh $INST
echo
echo "This next step is optional - you can set the directories in your package"
echo "to some sane permissions. If any of the directories in your package have"
echo "special permissions, then DO NOT reset them here!"
echo
echo "Would you like to reset all directory permissions to 755 (drwxr-xr-x) and"
echo -n "directory ownerships to root.root ([y]es, [n]o)? "
if [ ! "$CHOWN" ]; then
 read CHOWN;
 echo
else
 echo $CHOWN
 echo
fi
if [ "$CHOWN" = "y" ]; then
 find . -type d -exec chmod -v 755 {} \;
 find . -type d -exec chown -v root.root {} \;
fi
echo
echo "Creating tar file $TAR_NAME.tar..."
echo
$TAR cvf $TAR_NAME.tar .
# Warn of zero-length files:
find . -type f -size 0c | while read file ; do
 echo "WARNING: zero length file $file"
done
find . -type f -name '*.gz' -size 20c | while read file ; do
 echo "WARNING: possible empty gzipped file $file"
done
echo
echo "Gzipping $TAR_NAME.tar..."
gzip -9 $TAR_NAME.tar
echo
echo "Renaming $TAR_NAME.tar.gz to $PACKAGE_NAME..."
mv $TAR_NAME.tar.gz $PACKAGE_NAME
if [ ! "$TARGET_NAME" = "." ]; then
 echo
 echo "Moving $PACKAGE_NAME to $TARGET_NAME..."
 mv $PACKAGE_NAME $TARGET_NAME
fi
echo
echo "Package creation complete."
echo
#!/bin/sh
#
# Copyright 1993, 1994, 1995, 1996, 1997,
```

```
#    1998, 1999  Patrick Volkerding,  Moorhead, MN  USA
# Copyright 2001  Slackware Linux, Inc.,  Concord, CA  USA
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#
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#  ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#

# Wed, 27 Apr 1994 00:06:50 -0700 (PDT)
# Optimization by David Hinds.

SOURCE_DIR=/var/log/mount
ASK="tagfiles"
if [ -L /bin/chmod -a -L /bin/chown ]; then # probably on the bootdisk using busybox
TARGET_DIR=/mnt
TMP=/mnt/var/log/setup/tmp
if mount | grep "on /mnt" 1> /dev/null 2>&1 ; then # good
 true
else # bad
 echo
 echo
 echo "You can't run pkgtool from the rootdisk until you've mounted your Linux"
 echo "partitions beneath /mnt. Here are some examples of this:"
 echo
 echo "If your root partition is /dev/hda1, and is using ext2fs, you would type:"
 echo "mount /dev/hda1 /mnt -t ext2"
 echo
 echo "Then, supposing your /usr partition is /dev/hda2, you must do this:"
 echo "mount /dev/hda2 /mnt/usr -t ext2"
 echo
 echo "Please mount your Linux partitions and then run pkgtool again."
 echo
 exit
fi
```

```
else
TARGET_DIR=/
TMP=/var/log/setup/tmp
fi
if [ ! -d $TMP ]; then
mkdir -p $TMP
chmod 700 $TMP
fi
ADM_DIR=$TARGET_DIR/var/log
LOG=$TMP/PKGTOOL.REMOVED

# remove whitespace
crunch() {
 while read FOO ; do
   echo $FOO
 done
}

package_name() {
 STRING='basename $1 .tgz'
 # Check for old style package name with one segment:
 if [ "'echo $STRING | cut -f 1 -d -'" = "'echo $STRING | cut -f 2 -d -'" ]; then
   echo $STRING
 else # has more than one dash delimited segment
   # Count number of segments:
   INDEX=1
   while [ ! "'echo $STRING | cut -f $INDEX -d -'" = "" ]; do
     INDEX='expr $INDEX + 1'
   done
   INDEX='expr $INDEX - 1' # don't include the null value
   # If we don't have four segments, return the old-style (or out of spec) package name:
   if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
     echo $STRING
   else # we have four or more segments, so we'll consider this a new-style name:
     NAME='expr $INDEX - 3'
     NAME="'echo $STRING | cut -f 1-$NAME -d -'"
     echo $NAME
     # cruft for later ;)
     #VER='expr $INDEX - 2'
     #VER="'echo $STRING | cut -f $VER -d -'"
     #ARCH='expr $INDEX - 1'
     #ARCH="'echo $STRING | cut -f $ARCH -d -'"
     #BUILD="'echo $STRING | cut -f $INDEX -d -'"
   fi
 fi
}

remove_packages() {
```

```
for pkg_name in $*
do
 if [ -r $ADM_DIR/packages/$pkg_name ]; then
  dialog --title "PACKAGE REMOVAL IN PROGRESS" --cr-wrap --infobox \
"\nRemoving package $pkg_name.\n\
\n\
Since each file must be checked \
against the contents of every other installed package to avoid wiping out \
areas of overlap, this process can take quite some time. If you'd like to \
watch the progress, flip over to another virtual console and type:\n\
\n\
tail -f $TMP/PKGTOOL.REMOVED\n" 13 60
  export ROOT=$TARGET_DIR
  removepkg $pkg_name >> $LOG 2> /dev/null
 else
  echo "No such package: $pkg_name. Can't remove." >> $LOG
 fi
done
}

# Here, we read the list of arguments passed to the pkgtool script.
if [ $# -gt 0 ]; then # there are arguments to the command
while [ $# -gt 0 ]; do
 case "$1" in
 "-sets")
  DISK_SETS='echo $2 | tr "[A-Z]" "[a-z]"' ; shift 2 ;;
 "-source_mounted")
  SOURCE_MOUNTED="always" ; shift 1 ;;
 "-ignore_tagfiles")
  ASK="never" ; shift 1 ;;
 "-tagfile")
  USETAG=$2 ; shift 2 ;;
 "-source_dir")
  SOURCE_DIR=$2 ; shift 2 ;;
 "-target_dir")
  TARGET_DIR=$2
  ADM_DIR=$TARGET_DIR/var/log
  shift 2 ;;
 "-source_device")
  SOURCE_DEVICE=$2 ; shift 2 ;;
 esac
done
else  # there were no arguments, so we'll get the needed information from the
    # user and then go on.
CMD_START="true"
rm -f $TMP/SeT*
while [ 0 ]; do
 dialog --title "Slackware Package Tool (pkgtool version 9.0.0)" \
```

```
--menu "\nWelcome to the Slackware package tool.\n\
\nWhich option would you like?\n" 17 75 7 \
"Current" "Install packages from the current directory" \
"Other" "Install packages from some other directory" \
"Floppy" "Install packages from floppy disks" \
"Remove" "Remove packages that are currently installed" \
"View" "View the list of files contained in a package" \
"Setup" "Choose Slackware installation scripts to run again" \
"Exit" "Exit Pkgtool" 2> $TMP/reply
 if [ ! $? = 0 ]; then
  rm -f $TMP/reply
  dialog --clear
  exit
 fi
 REPLY="'cat $TMP/reply'"
 rm -f $TMP/reply
 if [ "$REPLY" = "Exit" ]; then
  dialog --clear
  exit
 fi
 if [ "$REPLY" = "Setup" ]; then
   echo 'dialog --title "SELECT SYSTEM SETUP SCRIPTS" --item-help --checklist \
   "Please use the spacebar to select the setup scripts to run.  Hit enter when you \
are done selecting to run the scripts." 17 70 9 \' > $TMP/setupscr
   for script in $ADM_DIR/setup/setup.* ; do
     BLURB='grep '#BLURB' $script | cut -b8-'
     if [ "$BLURB" = "" ]; then
       BLURB="\"\""
     fi
     echo " \"'basename $script | cut -f2- -d .'\" $BLURB \"no\" $BLURB \\" >> $TMP/setupscr
   done
   echo "2> $TMP/return" >> $TMP/setupscr
   . $TMP/setupscr
   if [ ! "'cat $TMP/return'" = "" ]; then
     # Run each script:
     for script in 'cat $TMP/return' ; do
       scrpath=$ADM_DIR/setup/setup.'echo $script | tr -d \"'
       rootdevice="'mount | head -1 | cut -f 1 -d ' ""
       ( COLOR=on ; cd $TARGET_DIR ; . $scrpath / $rootdevice )
     done
   fi
   rm -f $TMP/return $TMP/setupscr
   continue
 fi # end Setup
 if [ "$REPLY" = "View" ]; then
  DEFITEM=""
  export DEFITEM
  dialog --title "SCANNING" --infobox "Please wait while \
```

```
Pkgtool scans your system to determine which packages you have \
installed and prepares a list for you." 0 0
 echo 'dialog $DEFITEM --item-help --menu "Please select the package you wish to view." 17 68 10 \' >
$TMP/viewscr
 for name in 'ls $ADM_DIR/packages' ; do
  pkg_name='package_name $name'
  BLURB="'sed -n \"/$pkg_name:/{s/\\"//g;p;q;}\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch'"
  # Let's have some backward compatibility with the interim beta (for now):
  if [ "$BLURB" = "" ]; then
   BLURB="'sed -n \"/$name:/{s/\\"//g;p;q;}\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch'"
  fi
  echo " \"$name\" \"$BLURB\" \"View information about package $name\" \\" >> $TMP/viewscr
 done
 echo "2> $TMP/return" >> $TMP/viewscr
 while [ 0 ]; do
  . $TMP/viewscr
  if [ ! "'cat $TMP/return'" = "" ]; then
   DEFITEM="--default-item 'cat $TMP/return'"
   dialog --title "CONTENTS OF PACKAGE: 'cat $TMP/return'" --no-shadow --textbox "$ADM_DIR/packages/'cat
$TMP/return'" \
   0 0 2> /dev/null
  else
   break
  fi
 done
 rm -f $TMP/return $TMP/viewscr $TMP/tmpmsg
 # This will clean up after most defective packages:
 chmod 755 /
 chmod 1777 /tmp
 continue
fi
if [ "$REPLY" = "Remove" ]; then
 dialog --title "SCANNING" --infobox "Please wait while Pkgtool scans \
your system to determine which packages you have installed and prepares \
a list for you." 0 0
 # end section
 cat << EOF > $TMP/rmscript
dialog --title "SELECT PACKAGES TO REMOVE" --item-help --checklist \
"Please select the \
packages you wish to Remove. Use the \
spacebar to select packages to delete, and the UP/DOWN arrow keys to \
scroll up and down through the entire list." 20 75 11 \\
EOF
 for name in 'ls $ADM_DIR/packages' ; do
  pkg_name='package_name $name'
  BLURB="'sed -n \"/$pkg_name:/{s/\\"//g;p;q;}\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch'"
  # Let's have some backward compatibility with the interim beta (for now):
  if [ "$BLURB" = "" ]; then
```

```
   BLURB="'sed -n \"/$name:/{s/\\\"//g;p;q;}\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch'"
  fi
  echo " \"$name\" \"$BLURB\" off \"Select/Unselect removing package $name\" \\" >> $TMP/rmscript
 done
 echo "2> $TMP/return" >> $TMP/rmscript
 if [ -L $LOG -o -r $LOG ]; then
  rm -f $LOG
 fi
 cat /dev/null > $LOG
 chmod 600 $LOG
 chmod 700 $TMP/rmscript
 export ADM_DIR;
 $TMP/rmscript
 remove_packages 'cat $TMP/return | tr -d "\042"'
 if [ "'cat $TMP/PKGTOOL.REMOVED'" = "" ]; then
  rm -f $TMP/PKGTOOL.REMOVED
  dialog --title "NO PACKAGES REMOVED" --msgbox "Hit OK to return \
to the main menu." 5 40
 else
  dialog --title "PACKAGE REMOVAL COMPLETE" --msgbox "The packages have \
been removed. A complete log of the files that were removed has been created \
in $TMP: PKGTOOL.REMOVED." 0 0
 fi
 rm -f $TMP/rmscript $TMP/return $TMP/tmpmsg $TMP/SeT*
 chmod 755 /
 chmod 1777 /tmp
# No, return to the main menu:
#   exit
elif [ "$REPLY" = "Floppy" ]; then
 dialog --title "SELECT FLOPPY DRIVE" --menu "Which floppy drive would \
you like to install from?" \
11 70 4 \
"/dev/fd0u1440" "1.44 MB first floppy drive" \
"/dev/fd1u1440" "1.44 MB second floppy drive" \
"/dev/fd0h1200" "1.2 MB first floppy drive" \
"/dev/fd1h1200" "1.2 MB second floppy drive" 2> $TMP/wdrive
 if [ $? = 1 ]; then
  dialog --clear
  exit
 fi
 SOURCE_DEVICE="'cat $TMP/wdrive'"
 rm -f $TMP/wdrive
 cat << EOF > $TMP/tmpmsg

Enter the names of any disk sets you would like to install.
Separate the sets with a space, like this: a b oi x

To install packages from one disk, hit [enter] without typing
```

```
anything.

EOF
  dialog --title "SOFTWARE SELECTION" --inputbox "'cat $TMP/tmpmsg'" 13 70 2> $TMP/sets
  DISK_SETS="'cat $TMP/sets'"
  rm -f $TMP/sets
  if [ "$DISK_SETS" = "" ]; then
   DISK_SETS="disk"
  else
   DISK_SETS='echo $DISK_SETS | sed 's/ /#/g"
   DISK_SETS="#$DISK_SETS"
  fi
  break;
 elif [ "$REPLY" = "Other" ]; then
  dialog --title "SELECT SOURCE DIRECTORY" --inputbox "Please enter the name of the directory that you wish
to \
install packages from:" 10 50 2> $TMP/pkgdir
  if [ $? = 1 ]; then
   rm -f $TMP/pkgdir $TMP/SeT*
   dialog --clear
   exit
  fi
  SOURCE_DIR="'cat $TMP/pkgdir'"
  SOURCE_MOUNTED="always"
  DISK_SETS="disk"
  chmod 755 $TARGET_DIR
  chmod 1777 $TARGET_DIR/tmp
  rm -f $TMP/pkgdir
  if [ ! -d $SOURCE_DIR ]; then
   dialog --title "DIRECTORY NOT FOUND" --msgbox "The directory you want to \
install from ($SOURCE_DIR) \
does not seem to exist. Please check the directory and then try again." \
10 50
   dialog --clear
   exit
  fi
  break;
 else # installing from current directory
  SOURCE_MOUNTED="always"
  SOURCE_DIR="$PWD"
  DISK_SETS="disk"
  chmod 755 $TARGET_DIR
  chmod 1777 $TARGET_DIR/tmp
  break;
 fi
done
fi
if [ "$DISK_SETS" = "disk" ]; then
```

```
ASK="always"
fi

mount_the_source() {
# is the source supposed to be mounted already?
if [ "$SOURCE_MOUNTED" = "always" ]; then
 # The source should already be mounted, so we test it
 if [ ! -d $SOURCE_DIR ]; then # the directory is missing
  cat << EOF > $TMP/tmpmsg

Your source device cannot be accessed properly.

Please be sure that it is mounted on $SOURCE_DIR,
and that the Slackware disks are found in subdirectories
of $SOURCE_DIR like specified.

EOF
  dialog --title "MOUNT ERROR" --msgbox "'cat $TMP/tmpmsg'" 11 67
  rm -f $TMP/tmpmsg
  exit 1;
 fi
 return 0;
fi
dialog --title "INSERT DISK" --menu "Please insert disk $1 and \
press ENTER to continue." \
11 50 3 \
"Continue" "Continue with the installation" \
"Skip" "Skip the current disk series" \
"Quit" "Abort the installation process" 2> $TMP/reply
if [ ! $? = 0 ]; then
 REPLY="Quit"
else
 REPLY="'cat $TMP/reply'"
fi
rm -f $TMP/reply
if [ "$REPLY" = "Skip" ]; then
 return 1;
fi
if [ "$REPLY" = "Quit" ]; then
  dialog --title "ABORTING" --msgbox "Aborting software installation." 5 50
  chmod 755 $TARGET_DIR
  chmod 1777 $TARGET_DIR/tmp
  exit 1;
fi;
# Old line:
# mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
# New ones: (thanks to Andy Schwierskott!)
go_on=y
```

```
not_successfull_mounted=1
while [ "$go_on" = y -a "$not_successfull_mounted" = 1 ]; do
 mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
 not_successfull_mounted=$?
 if [ "$not_successfull_mounted" = 1 ]; then
  mount_answer=x
  while [ "$mount_answer" != "y" -a "$mount_answer" != "q" ] ; do
   dialog --title "MOUNT PROBLEM" --menu "Media was not successfully \
mounted! Do you want to \
retry, or quit?" 10 60 2 \
"Yes" "Try to mount the disk again" \
"No" "No, abort." 2> $TMP/mntans
   mount_answer="'cat $TMP/mntans'"
   rm -f $TMP/mntans
   if [ "$mount_answer" = "Yes" ]; then
    mount_answer="y"
   else
    mount_answer="q"
   fi
  done
  go_on=$mount_answer
 fi
done
test $not_successfull_mounted = 0
}

umount_the_source() {
if [ ! "$SOURCE_MOUNTED" = "always" ]; then
 umount $SOURCE_DEVICE 1> /dev/null 2>&1
fi;
}

install_disk() {
mount_the_source $1
if [ $? = 1 ]; then
 umount_the_source;
 return 1;
fi
CURRENT_DISK_NAME="$1"
PACKAGE_DIR=$SOURCE_DIR
if [ "$SOURCE_MOUNTED" = "always" -a ! "$DISK_SETS" = "disk" ]; then
  PACKAGE_DIR=$PACKAGE_DIR/$1
fi

# If this directory is missing or contains no *.tgz files, bail.
if [ ! -d $PACKAGE_DIR ]; then
 return 1
fi
```

```
if ls $PACKAGE_DIR/*.tgz 1> /dev/null 2> /dev/null ; then
 true
else
 return 1
fi

#
# look for tagfile for this series and copy into $TMP/tagfile
#
touch $TMP/tagfile
if [ ! "$DISK_SETS" = "disk" ]; then
 if [ -r $TMP/SeTtagext ]; then
  if [ -r $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' ]; then
   cat $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' >> $TMP/tagfile
  else
   if [ -r $PACKAGE_DIR/tagfile ]; then
    cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
   fi
  fi

 #
 # Do we need to follow a custom path to the tagfiles?
 #
 elif [ -r $TMP/SeTtagpath ]; then
  custom_path='cat $TMP/SeTtagpath'
  short_path='basename $PACKAGE_DIR'

  # If tagfile exists at the specified custom path, copy it over.
  if [ -r $custom_path/$short_path/tagfile ]; then
   cat $custom_path/$short_path/tagfile >> $TMP/tagfile

  else # well, I guess we'll use the default one then.
   if [ -r $PACKAGE_DIR/tagfile ]; then
    cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
   fi
  fi
 #
 # We seem to be testing for this too often... maybe this code should
 # be optimized a little...
 #
 elif [ -r $PACKAGE_DIR/tagfile ]; then
  cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
 fi

 #
 # Execute menus if in QUICK mode:
 #
 if [ -r $TMP/SeTQUICK -a -r $PACKAGE_DIR/maketag ]; then
```

```
 if [ ! "$MAKETAG" = "" -a -r $PACKAGE_DIR/$MAKETAG ]; then # use alternate maketag
  sh $PACKAGE_DIR/$MAKETAG
 else
  sh $PACKAGE_DIR/maketag
 fi
 if [ -r $TMP/SeTnewtag ]; then
  mv $TMP/SeTnewtag $TMP/tagfile
 fi
fi

#
# Protect tagfile from hacker attack:
#
if [ -r $TMP/tagfile ]; then
 chmod 600 $TMP/tagfile
fi

fi #  ! "$DISK_SETS" = "disk"

# It's possible that the tagfile was specified on the command line.  If that's
# the case, then we'll just override whatever we figured out up above.
if [ ! "$USETAG" = "" ]; then
  cat $USETAG > $TMP/tagfile
fi

# If there's a catalog file present, use it to check for missing files.
# If not, forget about that and install whatever's there.
if [ "$1" = "single_disk" -o -r $PACKAGE_DIR/disk$1 -o -r $PACKAGE_DIR/package-list.txt ]; then
 if [ -r $PACKAGE_DIR/package-list.txt ]; then
  CATALOG_FILE=$PACKAGE_DIR/package-list.txt
 else
  CATALOG_FILE='basename $PACKAGE_DIR/disk*';
 fi
 if [ -r $PACKAGE_DIR/$CATALOG_FILE -a ! -d $PACKAGE_DIR/$CATALOG_FILE ]; then
  if grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE 1> /dev/null 2>&1 ; then
   # First we check for missing packages...
   for PKGTEST in 'grep "^CONTENTS:" $PACKAGE_DIR/$CATALOG_FILE | cut -f2- -d : 2> /dev/null' ; do
    # This is not a perfect test.  (say emacs is missing but emacs-nox is not)
    if ls $PACKAGE_DIR/$PKGTEST*.tgz 1> /dev/null 2> /dev/null ; then # found something like it
     true
    else
     cat << EOF > $TMP/tmpmsg

WARNING!!!

While looking through your index file ($CATALOG_FILE),
I noticed that you might be missing a package:
```

```
$PKGTEST-\*-\*-\*.tgz

that is supposed to be on this disk (disk $1). You may go
on with the installation if you wish, but if this is a
crucial file I'm making no promises that your machine will
boot.

EOF
    dialog --title "FILE MISSING FROM YOUR DISK" --msgbox \
"'cat $TMP/tmpmsg'" 17 67
   fi
  done # checking for missing packages
  # Now we test for extra packages:
  ALLOWED="'grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE | cut -b10- 2> /dev/null'"
  for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
   BASE="'basename $PACKAGE_FILENAME .tgz'"
   BASE="'package_name $BASE'"
   if echo $ALLOWED | grep $BASE 1> /dev/null 2>&1 ; then
    true
   else
    cat << EOF > $TMP/tmpmsg

WARNING!!!

While looking through your index file ($CATALOG_FILE),
I noticed that you have this extra package:

($BASE.tgz)

that I don't recognize. Please be sure this package is
really supposed to be here, and is not left over from an
old version of Slackware. Sometimes this can happen at the
archive sites.

EOF
    dialog --title "EXTRA FILE FOUND ON YOUR DISK" \
--msgbox "'cat $TMP/tmpmsg'" 17 67
    rm -f $TMP/tmpmsg
   fi
  done
 fi
fi # check for missing/extra packages

# Install the packages:
for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
 if [ "$PACKAGE_FILENAME" = "$PACKAGE_DIR/*.tgz" ]; then
  continue;
```

```
 fi
 if [ "$ASK" = "never" ]; then # install the package
  installpkg -root $TARGET_DIR -infobox -tagfile $TMP/tagfile $PACKAGE_FILENAME
  ERROR=$?
 elif [ "$ASK" = "tagfiles" ]; then
  installpkg -root $TARGET_DIR -menu -tagfile $TMP/tagfile $PACKAGE_FILENAME
  ERROR=$?
 else # ASK should be = always here, and that's how we'll treat it
  installpkg -root $TARGET_DIR -menu -ask -tagfile $TMP/tagfile $PACKAGE_FILENAME
  ERROR=$?
 fi
 # Check for abort:
 if [ "$ERROR" = "99" ]; then
  umount_the_source;
  chmod 755 $TARGET_DIR
  chmod 1777 $TARGET_DIR/tmp
  exit 1;
  fi
done
OUTTAHERE="false"
if [ -r $PACKAGE_DIR/install.end ]; then
 OUTTAHERE="true"
fi
umount_the_source;
if [ "$OUTTAHERE" = "true" ]; then
 return 1;
fi
}

install_disk_set() { # accepts one argument: the series name in lowercase.
SERIES_NAME=$1
CURRENT_DISK_NUMBER="1";
while [ 0 ]; do
 # Don't start numbering the directories until 2:
 if [ $CURRENT_DISK_NUMBER = 1 ]; then
   DISKTOINSTALL=$SERIES_NAME
 else
   DISKTOINSTALL=$SERIES_NAME$CURRENT_DISK_NUMBER
 fi
 install_disk $DISKTOINSTALL
 if [ ! $? = 0 ]; then # install.end was found, or the user chose
      # to quit installing packages.
  return 0;
 fi
 CURRENT_DISK_NUMBER='expr $CURRENT_DISK_NUMBER + 1'
done;
}
```

```
# /* main() */ ;)
if [ "$DISK_SETS" = "disk" ]; then
install_disk single_disk;
ASK="always"
else
touch $TMP/tagfile
chmod 600 $TMP/tagfile
if echo $DISK_SETS | grep "#a#" 1> /dev/null 2>&1; then
 A_IS_NEEDED="true"
else
 A_IS_NEEDED="false"
fi
while [ 0 ];
do
 while [ 0 ]; # strip leading '#'s
 do
  if [ "'echo $DISK_SETS | cut -b1'" = "#" ]; then
   DISK_SETS="'echo $DISK_SETS | cut -b2-'"
  else
   break;
  fi
 done
 if [ "$A_IS_NEEDED" = "true" ]; then
  cat << EOF > $TMP/tmpmsg

--- Installing package series ==>a<==

EOF
  dialog --infobox "'cat $TMP/tmpmsg'" 5 45
  sleep 1
  rm -f $TMP/tmpmsg
  install_disk_set a;
  A_IS_NEEDED="false"
 fi
 count="1"
 if [ "'echo $DISK_SETS | cut -b$count'" = "" ]; then
  break; # we be done here :^)
 else
  count="2"
  while [ 0 ]; do
   if [ "'echo $DISK_SETS | cut -b$count'" = "" -o "'echo $DISK_SETS | cut -b$count'" = "#" ]; then
    count="'expr $count - 1'"
    break;
   else
    count="'expr $count + 1'"
   fi
  done
 fi
```

```
 diskset="'echo $DISK_SETS | cut -b1-$count'"
 count="'expr $count + 1'"
 DISK_SETS="'echo $DISK_SETS | cut -b$count-'"
 if [ "$diskset" = "a" ]; then
  continue; # we expect this to be done elsewhere
 fi
 cat << EOF > $TMP/tmpmsg

Installing package series ==>$diskset<==

EOF
 dialog --infobox "'cat $TMP/tmpmsg"' 5 45
 sleep 1
 rm -f $TMP/tmpmsg
 install_disk_set $diskset;
done
fi

if [ "$DISK_SETS" = "disk" -o "$CMD_START" = "true" ]; then
if [ -r $TMP/tagfile ]; then
 rm $TMP/tagfile
fi
dialog --clear
fi
chmod 755 $TARGET_DIR $TARGET_DIR/var $TARGET_DIR/usr
chmod 1777 $TARGET_DIR/tmp
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#
```

```
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#
#!/bin/sh

TAR=tar-1.13
$TAR --help 1> /dev/null 2> /dev/null
if [ ! $? = 0 ]; then
 TAR=tar
fi
if [ ! "'LC_MESSAGES=C $TAR --version"' = "tar (GNU tar) 1.13

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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Written by John Gilmore and Jay Fenlason." ]; then
 echo "WARNING: pkgtools are unstable with tar > 1.13."
 echo "         You should provide a \"tar-1.13\" in your \$PATH."
 sleep 5
fi

if [ $# = 0 ]; then
cat << EOF
Usage: explodepkg package_name [package_name2, ...]

Explodes a Slackware compatible software package (or any tar+gzip archive) in
the current directory.  Equivalent to (for each package listed):

  ( umask 000 ; tar xzvf package_name )

Note: This should only be used for debugging or examining packages, not for
installing them. It doesn't execute installation scripts or update the package
indexes in /var/log/packages|scripts.

EOF
```

```
fi
for PKG in $* ; do
echo "Exploding package $PKG in current directory:"
( umask 000 ; $TAR xzvf $PKG 2> /dev/null )
if [ -r install/doinst.sh ]; then
 echo
 echo "An installation script was detected in ./install/doinst.sh, but"
 echo "was not executed."
fi
done
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#
# Wed Mar 18 15:32:33 CST 1998
# Patched to avoid possible symlink attacks in /tmp.

TAR=tar-1.13
$TAR --help 1> /dev/null 2> /dev/null
if [ ! $? = 0 ]; then
 TAR=tar
fi
if [ ! "'LC_MESSAGES=C $TAR --version'" = "tar (GNU tar) 1.13

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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Written by John Gilmore and Jay Fenlason." ]; then
 echo "WARNING: pkgtools are unstable with tar > 1.13."
 echo "         You should provide a \"tar-1.13\" in your \$PATH."
```

```
 sleep 5
fi

make_install_script() {
 COUNT=1
 LINE="'sed -n "$COUNT p" $1'"
 while [ ! "$LINE" = "" ]; do
  LINKGOESIN="'echo "$LINE" | cut -f 1 -d " '"'
  LINKGOESIN="'dirname $LINKGOESIN'"
  LINKNAMEIS="'echo "$LINE" | cut -f 1 -d ' '"'
  LINKNAMEIS="'basename "$LINKNAMEIS"'"
  LINKPOINTSTO="'echo "$LINE" | cut -f 3 -d ' '"'
  echo "( cd $LINKGOESIN ; rm -rf $LINKNAMEIS )"
  echo "( cd $LINKGOESIN ; ln -sf $LINKPOINTSTO $LINKNAMEIS )"
  COUNT='expr $COUNT + 1'
  LINE="'sed -n "$COUNT p" $1'"
 done
}

usage() {
 cat << EOF

Usage: makepkg package_name.tgz

Makes a Slackware compatible "*.tgz" package containing the contents of the
current and all subdirectories. If symbolic links exist, they will be removed
and an installation script will be made to recreate them later. This script
will be called "install/doinst.sh". You may add any of your own ash-compatible
shell scripts to this file and rebuild the package if you wish.

options:      -l, --linkadd y|n (moves symlinks into doinst.sh: recommended)
            -c, --chown y|n (resets all permissions to root:root 755
                        - not generally recommended)

If these options are not set, makepkg will prompt as appropriate.
EOF
}

TMP=/tmp # This can be a hole, but I'm going to be careful about file
        # creation in there, so don't panic. :^)

# Parse options
while [ 0 ]; do
 if [ "$1" = "--linkadd" -o "$1" = "-l" ]; then
   if [ "$2" = "y" ]; then
     LINKADD=y
   elif [ "$2" = "n" ]; then
     LINKADD=n
```

```
  else
    usage
    exit 2
  fi
  shift 2
 elif [ "$1" = "--chown" -o "$1" = "-c" ]; then
  if [ "$2" = "y" ]; then
    CHOWN=y
  elif [ "$2" = "n" ]; then
    CHOWN=n
  else
    usage
    exit 2
  fi
  shift 2
 elif [ "$1" = "-h" -o "$1" = "-H" -o "$1" = "--help" -o $# = 0 ]; then
  usage
  exit 0
 else
  break
 fi
done

echo
echo "Slackware package maker, version 2.0."
PACKAGE_NAME=$1
TARGET_NAME="'dirname $PACKAGE_NAME'"
PACKAGE_NAME="'basename $PACKAGE_NAME'"
TAR_NAME="'basename $PACKAGE_NAME .tgz'"
echo
echo "Searching for symbolic links:"
# Get rid of possible pre-existing trouble:
INST='mktemp $TMP/makepkg.XXXXXX'
find . -type l -exec ls -l {} \; | while read foo ; do echo $foo ; done | cut -f 9- -d ' ' | cut -b3- | tee $INST
if [ ! "'cat $INST'" = "" ]; then
 echo
 echo "Making symbolic link creation script:"
 make_install_script $INST | tee doinst.sh
fi
echo
if [ ! "'cat $INST'" = "" ]; then
 if [ -r install/doinst.sh ]; then
  echo "Unless your existing installation script already comtains the code"
  echo "to create these links, you should append these lines to your existing"
  echo "install script. Now's your chance. :^)"
  echo
  echo "Would you like to add this stuff to the existing install script and"
  echo -n "remove the symbolic links ([y]es, [n]o)? "
```

```
 else
  echo "It is recommended that you make these lines your new installation script."
  echo
  echo "Would you like to make this stuff the install script for this package"
  echo -n "and remove the symbolic links ([y]es, [n]o)? "
 fi
 if [ ! "$LINKADD" ]; then
  read LINKADD;
  echo
 else
  echo $LINKADD
  echo
 fi
 if [ "$LINKADD" = "y" ]; then
  if [ -r install/doinst.sh ]; then
   UPDATE="t"
   cat doinst.sh >> install/doinst.sh
  else
   mkdir install
   cat doinst.sh > install/doinst.sh
  fi
  echo
  echo "Removing symbolic links:"
  find . -type l -exec rm -v {} \;
  echo
  if [ "$UPDATE" = "t" ]; then
   echo "Updating your ./install/doinst.sh..."
  else
   echo "Creating your new ./install/doinst.sh..."
  fi
 fi
else
 echo "No symbolic links were found, so we won't make an installation script."
 echo "You can make your own later in ./install/doinst.sh and rebuild the"
 echo "package if you like."
fi
rm -f doinst.sh $INST
echo
echo "This next step is optional - you can set the directories in your package"
echo "to some sane permissions. If any of the directories in your package have"
echo "special permissions, then DO NOT reset them here!"
echo
echo "Would you like to reset all directory permissions to 755 (drwxr-xr-x) and"
echo -n "directory ownerships to root.root ([y]es, [n]o)? "
if [ ! "$CHOWN" ]; then
 read CHOWN;
 echo
else
```

```
 echo $CHOWN
 echo
fi
if [ "$CHOWN" = "y" ]; then
 find . -type d -exec chmod -v 755 {} \;
 find . -type d -exec chown -v root.root {} \;
fi
echo
echo "Creating tar file $TAR_NAME.tar..."
echo
$TAR cvf $TAR_NAME.tar .
# Warn of zero-length files:
find . -type f -size 0c | while read file ; do
 echo "WARNING: zero length file $file"
done
find . -type f -name '*.gz' -size 20c | while read file ; do
 echo "WARNING: possible empty gzipped file $file"
done
echo
echo "Gzipping $TAR_NAME.tar..."
gzip -9 $TAR_NAME.tar
echo
echo "Renaming $TAR_NAME.tar.gz to $PACKAGE_NAME..."
mv $TAR_NAME.tar.gz $PACKAGE_NAME
if [ ! "$TARGET_NAME" = "." ]; then
 echo
 echo "Moving $PACKAGE_NAME to $TARGET_NAME..."
 mv $PACKAGE_NAME $TARGET_NAME
fi
echo
echo "Package creation complete."
echo
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#

# Wed, 27 Apr 1994 00:06:50 -0700 (PDT)
# Optimization by David Hinds.

SOURCE_DIR=/var/log/mount
ASK="tagfiles"
if [ -L /bin/chmod -a -L /bin/chown ]; then # probably on the bootdisk using busybox
TARGET_DIR=/mnt
TMP=/mnt/var/log/setup/tmp
if mount | grep "on /mnt" 1> /dev/null 2>&1 ; then # good
 true
else # bad
 echo
 echo
 echo "You can't run pkgtool from the rootdisk until you've mounted your Linux"
 echo "partitions beneath /mnt. Here are some examples of this:"
 echo
 echo "If your root partition is /dev/hda1, and is using ext2fs, you would type:"
 echo "mount /dev/hda1 /mnt -t ext2"
 echo
 echo "Then, supposing your /usr partition is /dev/hda2, you must do this:"
 echo "mount /dev/hda2 /mnt/usr -t ext2"
 echo
 echo "Please mount your Linux partitions and then run pkgtool again."
 echo
 exit
fi
else
TARGET_DIR=/
TMP=/var/log/setup/tmp
fi
if [ ! -d $TMP ]; then
mkdir -p $TMP
chmod 700 $TMP
fi
ADM_DIR=$TARGET_DIR/var/log
LOG=$TMP/PKGTOOL.REMOVED

# remove whitespace
crunch() {
```

```
 while read FOO ; do
  echo $FOO
 done
}

package_name() {
 STRING='basename $1 .tgz'
 # Check for old style package name with one segment:
 if [ "'echo $STRING | cut -f 1 -d -'" = "'echo $STRING | cut -f 2 -d -'" ]; then
  echo $STRING
 else # has more than one dash delimited segment
  # Count number of segments:
  INDEX=1
  while [ ! "'echo $STRING | cut -f $INDEX -d -'" = "" ]; do
   INDEX='expr $INDEX + 1'
  done
  INDEX='expr $INDEX - 1' # don't include the null value
  # If we don't have four segments, return the old-style (or out of spec) package name:
  if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
   echo $STRING
  else # we have four or more segments, so we'll consider this a new-style name:
   NAME='expr $INDEX - 3'
   NAME="'echo $STRING | cut -f 1-$NAME -d -'"
   echo $NAME
   # cruft for later ;)
   #VER='expr $INDEX - 2'
   #VER="'echo $STRING | cut -f $VER -d -'"
   #ARCH='expr $INDEX - 1'
   #ARCH="'echo $STRING | cut -f $ARCH -d -'"
   #BUILD="'echo $STRING | cut -f $INDEX -d -'"
  fi
 fi
}

remove_packages() {
for pkg_name in $*
do
 if [ -r $ADM_DIR/packages/$pkg_name ]; then
  dialog --title "PACKAGE REMOVAL IN PROGRESS" --cr-wrap --infobox \
"\nRemoving package $pkg_name.\n\
\n\
Since each file must be checked \
against the contents of every other installed package to avoid wiping out \
areas of overlap, this process can take quite some time. If you'd like to \
watch the progress, flip over to another virtual console and type:\n\
\n\
tail -f $TMP/PKGTOOL.REMOVED\n" 13 60
  export ROOT=$TARGET_DIR
```

```
 removepkg $pkg_name >> $LOG 2> /dev/null
 else
  echo "No such package: $pkg_name. Can't remove." >> $LOG
 fi
done
}

# Here, we read the list of arguments passed to the pkgtool script.
if [ $# -gt 0 ]; then # there are arguments to the command
while [ $# -gt 0 ]; do
 case "$1" in
 "-sets")
  DISK_SETS='echo $2 | tr "[A-Z]" "[a-z]"' ; shift 2 ;;
 "-source_mounted")
  SOURCE_MOUNTED="always" ; shift 1 ;;
 "-ignore_tagfiles")
  ASK="never" ; shift 1 ;;
 "-tagfile")
  USETAG=$2 ; shift 2 ;;
 "-source_dir")
  SOURCE_DIR=$2 ; shift 2 ;;
 "-target_dir")
  TARGET_DIR=$2
  ADM_DIR=$TARGET_DIR/var/log
  shift 2 ;;
 "-source_device")
  SOURCE_DEVICE=$2 ; shift 2 ;;
 esac
done
else  # there were no arguments, so we'll get the needed information from the
    # user and then go on.
CMD_START="true"
rm -f $TMP/SeT*
while [ 0 ]; do
 dialog --title "Slackware Package Tool (pkgtool version 9.0.0)" \
--menu "\nWelcome to the Slackware package tool.\n\
\nWhich option would you like?\n" 17 75 7 \
"Current" "Install packages from the current directory" \
"Other" "Install packages from some other directory" \
"Floppy" "Install packages from floppy disks" \
"Remove" "Remove packages that are currently installed" \
"View" "View the list of files contained in a package" \
"Setup" "Choose Slackware installation scripts to run again" \
"Exit" "Exit Pkgtool" 2> $TMP/reply
 if [ ! $? = 0 ]; then
  rm -f $TMP/reply
  dialog --clear
  exit
```

```
 fi
 REPLY="'cat $TMP/reply"'
 rm -f $TMP/reply
 if [ "$REPLY" = "Exit" ]; then
  dialog --clear
  exit
 fi
 if [ "$REPLY" = "Setup" ]; then
   echo 'dialog --title "SELECT SYSTEM SETUP SCRIPTS" --item-help --checklist \
   "Please use the spacebar to select the setup scripts to run.  Hit enter when you \
are done selecting to run the scripts." 17 70 9 \' > $TMP/setupscr
   for script in $ADM_DIR/setup/setup.* ; do
     BLURB='grep '#BLURB' $script | cut -b8-'
     if [ "$BLURB" = "" ]; then
       BLURB="\"\""
     fi
     echo " \"'basename $script | cut -f2- -d .'\" $BLURB \"no\" $BLURB \\" >> $TMP/setupscr
   done
   echo "2> $TMP/return" >> $TMP/setupscr
   . $TMP/setupscr
   if [ ! "'cat $TMP/return"' = "" ]; then
     # Run each script:
     for script in 'cat $TMP/return' ; do
       scrpath=$ADM_DIR/setup/setup.'echo $script | tr -d \"'
       rootdevice="'mount | head -1 | cut -f 1 -d ' ""
       ( COLOR=on ; cd $TARGET_DIR ; . $scrpath / $rootdevice )
     done
   fi
   rm -f $TMP/return $TMP/setupscr
   continue
 fi # end Setup
 if [ "$REPLY" = "View" ]; then
  DEFITEM=""
  export DEFITEM
  dialog --title "SCANNING" --infobox "Please wait while \
Pkgtool scans your system to determine which packages you have \
installed and prepares a list for you." 0 0
   echo 'dialog $DEFITEM --item-help --menu "Please select the package you wish to view." 17 68 10 \' >
$TMP/viewscr
   for name in 'ls $ADM_DIR/packages' ; do
    pkg_name='package_name $name'
    BLURB="'sed -n \"/$pkg_name:/{s/\\"//g;p;q;}\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"'
    # Let's have some backward compatibility with the interim beta (for now):
    if [ "$BLURB" = "" ]; then
     BLURB="'sed -n \"/$name:/{s/\\"//g;p;q;}\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"'
    fi
    echo " \"$name\" \"$BLURB\" \"View information about package $name\" \\" >> $TMP/viewscr
   done
```

```
  echo "2> $TMP/return" >> $TMP/viewscr
  while [ 0 ]; do
   . $TMP/viewscr
   if [ ! "'cat $TMP/return'" = "" ]; then
    DEFITEM="--default-item 'cat $TMP/return'"
    dialog --title "CONTENTS OF PACKAGE: 'cat $TMP/return'" --no-shadow --textbox "$ADM_DIR/packages/'cat
$TMP/return'" \
    0 0 2> /dev/null
   else
    break
   fi
  done
  rm -f $TMP/return $TMP/viewscr $TMP/tmpmsg
  # This will clean up after most defective packages:
  chmod 755 /
  chmod 1777 /tmp
  continue
 fi
 if [ "$REPLY" = "Remove" ]; then
  dialog --title "SCANNING" --infobox "Please wait while Pkgtool scans \
your system to determine which packages you have installed and prepares \
a list for you." 0 0
  # end section
  cat << EOF > $TMP/rmscript
dialog --title "SELECT PACKAGES TO REMOVE" --item-help --checklist \
"Please select the \
packages you wish to Remove. Use the \
spacebar to select packages to delete, and the UP/DOWN arrow keys to \
scroll up and down through the entire list." 20 75 11 \\
EOF
  for name in 'ls $ADM_DIR/packages' ; do
   pkg_name='package_name $name'
   BLURB="'sed -n \"/$pkg_name:/{s/\\"//g;p;q;}\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch'"
   # Let's have some backward compatibility with the interim beta (for now):
   if [ "$BLURB" = "" ]; then
    BLURB="'sed -n \"/$name:/{s/\\"//g;p;q;}\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch'"
   fi
   echo " \"$name\" \"$BLURB\" off \"Select/Unselect removing package $name\" \\" >> $TMP/rmscript
  done
  echo "2> $TMP/return" >> $TMP/rmscript
  if [ -L $LOG -o -r $LOG ]; then
    rm -f $LOG
  fi
  cat /dev/null > $LOG
  chmod 600 $LOG
  chmod 700 $TMP/rmscript
  export ADM_DIR;
  $TMP/rmscript
```

```
  remove_packages 'cat $TMP/return | tr -d "\042"'
  if [ "'cat $TMP/PKGTOOL.REMOVED'" = "" ]; then
   rm -f $TMP/PKGTOOL.REMOVED
   dialog --title "NO PACKAGES REMOVED" --msgbox "Hit OK to return \
to the main menu." 5 40
  else
   dialog --title "PACKAGE REMOVAL COMPLETE" --msgbox "The packages have \
been removed. A complete log of the files that were removed has been created \
in $TMP: PKGTOOL.REMOVED." 0 0
  fi
  rm -f $TMP/rmscript $TMP/return $TMP/tmpmsg $TMP/SeT*
  chmod 755 /
  chmod 1777 /tmp
# No, return to the main menu:
#   exit
 elif [ "$REPLY" = "Floppy" ]; then
  dialog --title "SELECT FLOPPY DRIVE" --menu "Which floppy drive would \
you like to install from?" \
11 70 4 \
"/dev/fd0u1440" "1.44 MB first floppy drive" \
"/dev/fd1u1440" "1.44 MB second floppy drive" \
"/dev/fd0h1200" "1.2 MB first floppy drive" \
"/dev/fd1h1200" "1.2 MB second floppy drive" 2> $TMP/wdrive
  if [ $? = 1 ]; then
   dialog --clear
   exit
  fi
  SOURCE_DEVICE="'cat $TMP/wdrive'"
  rm -f $TMP/wdrive
  cat << EOF > $TMP/tmpmsg

Enter the names of any disk sets you would like to install.
Separate the sets with a space, like this: a b oi x

To install packages from one disk, hit [enter] without typing
anything.

EOF
  dialog --title "SOFTWARE SELECTION" --inputbox "'cat $TMP/tmpmsg'" 13 70 2> $TMP/sets
  DISK_SETS="'cat $TMP/sets'"
  rm -f $TMP/sets
  if [ "$DISK_SETS" = "" ]; then
   DISK_SETS="disk"
  else
   DISK_SETS='echo $DISK_SETS | sed 's/ /#/g"
   DISK_SETS="#$DISK_SETS"
  fi
  break;
```

```
 elif [ "$REPLY" = "Other" ]; then
  dialog --title "SELECT SOURCE DIRECTORY" --inputbox "Please enter the name of the directory that you wish
to \
install packages from:" 10 50 2> $TMP/pkgdir
  if [ $? = 1 ]; then
   rm -f $TMP/pkgdir $TMP/SeT*
   dialog --clear
   exit
  fi
  SOURCE_DIR="'cat $TMP/pkgdir'"
  SOURCE_MOUNTED="always"
  DISK_SETS="disk"
  chmod 755 $TARGET_DIR
  chmod 1777 $TARGET_DIR/tmp
  rm -f $TMP/pkgdir
  if [ ! -d $SOURCE_DIR ]; then
   dialog --title "DIRECTORY NOT FOUND" --msgbox "The directory you want to \
install from ($SOURCE_DIR) \
does not seem to exist. Please check the directory and then try again." \
10 50
   dialog --clear
   exit
  fi
  break;
 else # installing from current directory
  SOURCE_MOUNTED="always"
  SOURCE_DIR="$PWD"
  DISK_SETS="disk"
  chmod 755 $TARGET_DIR
  chmod 1777 $TARGET_DIR/tmp
  break;
 fi
done
fi
if [ "$DISK_SETS" = "disk" ]; then
ASK="always"
fi

mount_the_source() {
# is the source supposed to be mounted already?
if [ "$SOURCE_MOUNTED" = "always" ]; then
 # The source should already be mounted, so we test it
 if [ ! -d $SOURCE_DIR ]; then # the directory is missing
  cat << EOF > $TMP/tmpmsg

Your source device cannot be accessed properly.

Please be sure that it is mounted on $SOURCE_DIR,
```

```
and that the Slackware disks are found in subdirectories
of $SOURCE_DIR like specified.

EOF
  dialog --title "MOUNT ERROR" --msgbox "'cat $TMP/tmpmsg'" 11 67
  rm -f $TMP/tmpmsg
  exit 1;
 fi
 return 0;
fi
dialog --title "INSERT DISK" --menu "Please insert disk $1 and \
press ENTER to continue." \
11 50 3 \
"Continue" "Continue with the installation" \
"Skip" "Skip the current disk series" \
"Quit" "Abort the installation process" 2> $TMP/reply
if [ ! $? = 0 ]; then
 REPLY="Quit"
else
 REPLY="'cat $TMP/reply'"
fi
rm -f $TMP/reply
if [ "$REPLY" = "Skip" ]; then
 return 1;
fi
if [ "$REPLY" = "Quit" ]; then
  dialog --title "ABORTING" --msgbox "Aborting software installation." 5 50
  chmod 755 $TARGET_DIR
  chmod 1777 $TARGET_DIR/tmp
  exit 1;
fi;
# Old line:
# mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
# New ones: (thanks to Andy Schwierskott!)
go_on=y
not_successfull_mounted=1
while [ "$go_on" = y -a "$not_successfull_mounted" = 1 ]; do
 mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
 not_successfull_mounted=$?
 if [ "$not_successfull_mounted" = 1 ]; then
  mount_answer=x
  while [ "$mount_answer" != "y" -a "$mount_answer" != "q" ] ; do
   dialog --title "MOUNT PROBLEM" --menu "Media was not successfully \
mounted! Do you want to \
retry, or quit?" 10 60 2 \
"Yes" "Try to mount the disk again" \
"No" "No, abort." 2> $TMP/mntans
   mount_answer="'cat $TMP/mntans'"
```

```
  rm -f $TMP/mntans
  if [ "$mount_answer" = "Yes" ]; then
   mount_answer="y"
  else
   mount_answer="q"
  fi
 done
 go_on=$mount_answer
fi
done
test $not_successfull_mounted = 0
}

umount_the_source() {
if [ ! "$SOURCE_MOUNTED" = "always" ]; then
 umount $SOURCE_DEVICE 1> /dev/null 2>&1
fi;
}

install_disk() {
mount_the_source $1
if [ $? = 1 ]; then
 umount_the_source;
 return 1;
fi
CURRENT_DISK_NAME="$1"
PACKAGE_DIR=$SOURCE_DIR
if [ "$SOURCE_MOUNTED" = "always" -a ! "$DISK_SETS" = "disk" ]; then
  PACKAGE_DIR=$PACKAGE_DIR/$1
fi

# If this directory is missing or contains no *.tgz files, bail.
if [ ! -d $PACKAGE_DIR ]; then
 return 1
fi
if ls $PACKAGE_DIR/*.tgz 1> /dev/null 2> /dev/null ; then
 true
else
 return 1
fi

#
# look for tagfile for this series and copy into $TMP/tagfile
#
touch $TMP/tagfile
if [ ! "$DISK_SETS" = "disk" ]; then
 if [ -r $TMP/SeTtagext ]; then
  if [ -r $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' ]; then
```

```
 cat $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' >> $TMP/tagfile
 else
  if [ -r $PACKAGE_DIR/tagfile ]; then
   cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
  fi
 fi

#
# Do we need to follow a custom path to the tagfiles?
#
elif [ -r $TMP/SeTtagpath ]; then
 custom_path='cat $TMP/SeTtagpath'
 short_path='basename $PACKAGE_DIR'

 # If tagfile exists at the specified custom path, copy it over.
 if [ -r $custom_path/$short_path/tagfile ]; then
  cat $custom_path/$short_path/tagfile >> $TMP/tagfile

 else # well, I guess we'll use the default one then.
  if [ -r $PACKAGE_DIR/tagfile ]; then
   cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
  fi
 fi
#
# We seem to be testing for this too often... maybe this code should
# be optimized a little...
#
elif [ -r $PACKAGE_DIR/tagfile ]; then
 cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
fi

#
# Execute menus if in QUICK mode:
#
if [ -r $TMP/SeTQUICK -a -r $PACKAGE_DIR/maketag ]; then
 if [ ! "$MAKETAG" = "" -a -r $PACKAGE_DIR/$MAKETAG ]; then # use alternate maketag
  sh $PACKAGE_DIR/$MAKETAG
 else
  sh $PACKAGE_DIR/maketag
 fi
 if [ -r $TMP/SeTnewtag ]; then
  mv $TMP/SeTnewtag $TMP/tagfile
 fi
fi

#
# Protect tagfile from hacker attack:
#
```

```
 if [ -r $TMP/tagfile ]; then
  chmod 600 $TMP/tagfile
 fi

fi #  ! "$DISK_SETS" = "disk"

# It's possible that the tagfile was specified on the command line.  If that's
# the case, then we'll just override whatever we figured out up above.
if [ ! "$USETAG" = "" ]; then
  cat $USETAG > $TMP/tagfile
fi

# If there's a catalog file present, use it to check for missing files.
# If not, forget about that and install whatever's there.
if [ "$1" = "single_disk" -o -r $PACKAGE_DIR/disk$1 -o -r $PACKAGE_DIR/package-list.txt ]; then
 if [ -r $PACKAGE_DIR/package-list.txt ]; then
  CATALOG_FILE=$PACKAGE_DIR/package-list.txt
 else
  CATALOG_FILE='basename $PACKAGE_DIR/disk*';
 fi
 if [ -r $PACKAGE_DIR/$CATALOG_FILE -a ! -d $PACKAGE_DIR/$CATALOG_FILE ]; then
  if grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE 1> /dev/null 2>&1 ; then
   # First we check for missing packages...
   for PKGTEST in 'grep "^CONTENTS:" $PACKAGE_DIR/$CATALOG_FILE | cut -f2- -d : 2> /dev/null' ; do
    # This is not a perfect test.  (say emacs is missing but emacs-nox is not)
    if ls $PACKAGE_DIR/$PKGTEST*.tgz 1> /dev/null 2> /dev/null ; then # found something like it
     true
    else
     cat << EOF > $TMP/tmpmsg

WARNING!!!

While looking through your index file ($CATALOG_FILE),
I noticed that you might be missing a package:

$PKGTEST-\*-\*-\*.tgz

that is supposed to be on this disk (disk $1). You may go
on with the installation if you wish, but if this is a
crucial file I'm making no promises that your machine will
boot.

EOF
     dialog --title "FILE MISSING FROM YOUR DISK" --msgbox \
"'cat $TMP/tmpmsg"' 17 67
    fi
   done # checking for missing packages
   # Now we test for extra packages:
```

```
  ALLOWED="'grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE | cut -b10- 2> /dev/null'"
  for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
   BASE="'basename $PACKAGE_FILENAME .tgz'"
   BASE="'package_name $BASE'"
   if echo $ALLOWED | grep $BASE 1> /dev/null 2>&1 ; then
    true
   else
    cat << EOF > $TMP/tmpmsg

WARNING!!!

While looking through your index file ($CATALOG_FILE),
I noticed that you have this extra package:

($BASE.tgz)

that I don't recognize. Please be sure this package is
really supposed to be here, and is not left over from an
old version of Slackware. Sometimes this can happen at the
archive sites.

EOF
    dialog --title "EXTRA FILE FOUND ON YOUR DISK" \
--msgbox "'cat $TMP/tmpmsg'" 17 67
    rm -f $TMP/tmpmsg
   fi
  done
 fi
fi # check for missing/extra packages

# Install the packages:
for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
 if [ "$PACKAGE_FILENAME" = "$PACKAGE_DIR/*.tgz" ]; then
  continue;
 fi
 if [ "$ASK" = "never" ]; then # install the package
  installpkg -root $TARGET_DIR -infobox -tagfile $TMP/tagfile $PACKAGE_FILENAME
  ERROR=$?
 elif [ "$ASK" = "tagfiles" ]; then
  installpkg -root $TARGET_DIR -menu -tagfile $TMP/tagfile $PACKAGE_FILENAME
  ERROR=$?
 else # ASK should be = always here, and that's how we'll treat it
  installpkg -root $TARGET_DIR -menu -ask -tagfile $TMP/tagfile $PACKAGE_FILENAME
  ERROR=$?
 fi
 # Check for abort:
 if [ "$ERROR" = "99" ]; then
```

```
 umount_the_source;
 chmod 755 $TARGET_DIR
 chmod 1777 $TARGET_DIR/tmp
 exit 1;
 fi
done
OUTTAHERE="false"
if [ -r $PACKAGE_DIR/install.end ]; then
 OUTTAHERE="true"
fi
umount_the_source;
if [ "$OUTTAHERE" = "true" ]; then
 return 1;
fi
}

install_disk_set() { # accepts one argument: the series name in lowercase.
SERIES_NAME=$1
CURRENT_DISK_NUMBER="1";
while [ 0 ]; do
 # Don't start numbering the directories until 2:
 if [ $CURRENT_DISK_NUMBER = 1 ]; then
   DISKTOINSTALL=$SERIES_NAME
 else
   DISKTOINSTALL=$SERIES_NAME$CURRENT_DISK_NUMBER
 fi
 install_disk $DISKTOINSTALL
 if [ ! $? = 0 ]; then # install.end was found, or the user chose
      # to quit installing packages.
  return 0;
 fi
 CURRENT_DISK_NUMBER='expr $CURRENT_DISK_NUMBER + 1'
done;
}

# /* main() */ ;)
if [ "$DISK_SETS" = "disk" ]; then
install_disk single_disk;
ASK="always"
else
touch $TMP/tagfile
chmod 600 $TMP/tagfile
if echo $DISK_SETS | grep "#a#" 1> /dev/null 2>&1; then
 A_IS_NEEDED="true"
else
 A_IS_NEEDED="false"
fi
while [ 0 ];
```

```
do
 while [ 0 ]; # strip leading '#'s
 do
  if [ "'echo $DISK_SETS | cut -b1'" = "#" ]; then
   DISK_SETS="'echo $DISK_SETS | cut -b2-'"
  else
   break;
  fi
 done
 if [ "$A_IS_NEEDED" = "true" ]; then
  cat << EOF > $TMP/tmpmsg

--- Installing package series ==>a<==

EOF
  dialog --infobox "'cat $TMP/tmpmsg'" 5 45
  sleep 1
  rm -f $TMP/tmpmsg
  install_disk_set a;
  A_IS_NEEDED="false"
 fi
 count="1"
 if [ "'echo $DISK_SETS | cut -b$count'" = "" ]; then
  break; # we be done here :^)
 else
  count="2"
  while [ 0 ]; do
   if [ "'echo $DISK_SETS | cut -b$count'" = "" -o "'echo $DISK_SETS | cut -b$count'" = "#" ]; then
    count="'expr $count - 1'"
    break;
   else
    count="'expr $count + 1'"
   fi
  done
 fi
 diskset="'echo $DISK_SETS | cut -b1-$count'"
 count="'expr $count + 1'"
 DISK_SETS="'echo $DISK_SETS | cut -b$count-'"
 if [ "$diskset" = "a" ]; then
  continue; # we expect this to be done elsewhere
 fi
 cat << EOF > $TMP/tmpmsg

Installing package series ==>$diskset<==

EOF
 dialog --infobox "'cat $TMP/tmpmsg'" 5 45
 sleep 1
```

```
 rm -f $TMP/tmpmsg
 install_disk_set $diskset;
done
fi

if [ "$DISK_SETS" = "disk" -o "$CMD_START" = "true" ]; then
if [ -r $TMP/tagfile ]; then
 rm $TMP/tagfile
fi
dialog --clear
fi
chmod 755 $TARGET_DIR $TARGET_DIR/var $TARGET_DIR/usr
chmod 1777 $TARGET_DIR/tmp
#!/bin/sh
# Slackware remove package script
#
# Revision 1.8 Thu Nov 22 14:00:13 PST 2001 volkerding Rel $
# - Move $TMP underneath $ROOT
# - Understand the idea of a base package name, so that packages
#   can be removed with any of these notations:
#   removepkg foo-1.0-i386-1.tgz
#   removepkg foo-1.0-i386-1
#   removepkg foo.tgz
#   removepkg foo
#
# Revision 1.7  2001/03/30 12:36:28 volkerding
# - Strip extra ".tgz" from input names.
#
# Revision 1.6  1999/03/25 18:26:41 volkerding
# - Use external $ROOT variable, like installpkg.
#
# Revision 1.5.1  1998/03/18 15:37:28 volkerding
# - Since removepkg is always run by root, the temp directory has been
#   moved from /tmp to a private directory to avoid symlink attacks from
#   malicious users.
#
# Revision 1.5  1997/06/26 12:09:53  franke
# - Fixed old bug in TRIGGER regex setting
# - -preserve/-copy options now preserve non-unique files
#   and empty directories also
#
# Revision 1.4  1997/06/09 13:21:36  franke
# - Package file preserve (-preserve, -copy) added.
# - Don't execute "rm -rf" lines from doinst.sh, removing links explicit.
# - Warning on no longer existing files added.
# - Warning on files changed after package installation added.
# - Intermediate file preserve (-keep) added.
# - Check for required files/links now done on a combined list.
```

```
# - Write access to /var/log/{packages,scripts} no longer necessary for -warn.
#
# Revision 1.3  1997/06/08 13:03:05  franke
# Merged with revision 1.1.1.1
#
# Revision 1.2  1996/06/01 20:04:26  franke
# Delete empty directories & formated manual pages added
#
# Revision 1.1.1.1  1995/12/18 21:20:42  volkerding
# Original Version from Slackware 3.1
#
# Revision 1.1  1995/06/05 22:49:11  volkerding
# Original Version from Slackware 3.0
#

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#  ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#

# Make sure there's a proper temp directory:
TMP=$ROOT/var/log/setup/tmp
# If the $TMP directory doesn't exist, create it:
if [ ! -d $TMP ]; then
 rm -rf $TMP # make sure it's not a symlink or something stupid
 mkdir -p $TMP
 chmod 700 $TMP # no need to leave it open
fi
ADM_DIR=$ROOT/var/log
PRES_DIR=$TMP/preserved_packages
```

```
cat_except() {
( cd "$1" && cat 'ls * | sed "/^$2\$/d"' )
}

extract_links() {
sed -n 's,^( *cd \([^ ;][^ ;]*\) *; *rm -rf \([^ )][^ )]*\) *) *$,\1/\2,p'
}

preserve_file() {
if [ "$PRESERVE" = "true" ]; then
 F="'basename "$1"'"
 D="'dirname "$1"'"
 if [ ! -d "$PRES_DIR/$PKGNAME/$D" ]; then
   mkdir -p "$PRES_DIR/$PKGNAME/$D" || return 1
 fi
 cp -p "$ROOT/$D/$F" "$PRES_DIR/$PKGNAME/$D" || return 1
fi
return 0
}

preserve_dir() {
if [ "$PRESERVE" = "true" ]; then
 if [ ! -d "$PRES_DIR/$PKGNAME/$1" ]; then
   mkdir -p "$PRES_DIR/$PKGNAME/$1" || return 1
 fi
fi
return 0
}

keep_files() {
while read FILE ; do
 if [ ! -d "$ROOT/$FILE" ]; then
  if [ -r "$ROOT/$FILE" ]; then
   echo "  --> $ROOT/$FILE was found in another package. Skipping."
   preserve_file "$FILE"
  else
   if [ "'echo $FILE | cut -b1-8"' != "install/" ]; then
    echo "WARNING: Nonexistent $ROOT/$FILE was found in another package. Skipping."
   fi
  fi
 else
  preserve_dir "$FILE"
 fi
done
}

keep_links() {
while read LINK ; do
```

```
 if [ -L "$ROOT/$LINK" ]; then
  echo "  --> $ROOT/$LINK (symlink) was found in another package. Skipping."
 else
  echo "WARNING: Nonexistent $ROOT/$LINK (symlink) was found in another package. Skipping."
 fi
done
}

delete_files() {
while read FILE ; do
 if [ ! -d "$ROOT/$FILE" ]; then
  if [ -r "$ROOT/$FILE" ]; then
   if [ "$ROOT/$FILE" -nt "$ADM_DIR/packages/$PKGNAME" ]; then
    echo "WARNING: $ROOT/$FILE changed after package installation."
   fi
   if [ ! "$WARN" = "true" ]; then
    echo "  --> Deleting $ROOT/$FILE"
    preserve_file "$FILE" && rm -f "$ROOT/$FILE"
   else
    echo "  --> $ROOT/$FILE would be deleted"
    preserve_file "$FILE"
   fi
  else
   echo "  --> $ROOT/$FILE no longer exists. Skipping."
  fi
 else
  preserve_dir "$FILE"
 fi
done
}

delete_links() {
while read LINK ; do
 if [ -L "$ROOT/$LINK" ]; then
  if [ ! "$WARN" = "true" ]; then
   echo "  --> Deleting symlink $ROOT/$LINK"
   rm -f $ROOT/$LINK
  else
   echo "  --> $ROOT/$LINK (symlink) would be deleted"
  fi
 else
  echo "  --> $ROOT/$LINK (symlink) no longer exists. Skipping."
 fi
done
}

delete_dirs() {
sort -r | \
```

```
while read DIR ; do
 if [ -d "$ROOT/$DIR" ]; then
  if [ ! "$WARN" = "true" ]; then
   if [ 'ls -a "$ROOT/$DIR" | wc -l' -eq 2 ]; then
    echo "  --> Deleting empty directory $ROOT/$DIR"
    rmdir $ROOT/$DIR
   else
    echo "WARNING: Unique directory $ROOT/$DIR contains new files"
   fi
  else
   echo "  --> $ROOT/$DIR (dir) would be deleted if empty"
  fi
 fi
done
}

delete_cats() {
sed -n 's,/man\(./[^/]*$\),/cat\1,p'  | \
while read FILE ; do
 if [ -f "$ROOT/$FILE" ]; then
  if [ ! "$WARN" = "true" ]; then
   echo "  --> Deleting $ROOT/$FILE (fmt man page)"
   rm -f $ROOT/$FILE
  else
   echo "  --> $ROOT/$FILE (fmt man page) would be deleted"
  fi
 fi
done
}

package_name() {
 STRING='basename $1 .tgz'
 # Check for old style package name with one segment:
 if [ "'echo $STRING | cut -f 1 -d -'" = "'echo $STRING | cut -f 2 -d -'" ]; then
  echo $STRING
 else # has more than one dash delimited segment
  # Count number of segments:
  INDEX=1
  while [ ! "'echo $STRING | cut -f $INDEX -d -'" = "" ]; do
   INDEX='expr $INDEX + 1'
  done
  INDEX='expr $INDEX - 1' # don't include the null value
  # If we don't have four segments, return the old-style (or out of spec) package name:
  if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
   echo $STRING
  else # we have four or more segments, so we'll consider this a new-style name:
   NAME='expr $INDEX - 3'
   NAME="'echo $STRING | cut -f 1-$NAME -d -'"
```

```
    echo $NAME
    # cruft for later ;)
    #VER='expr $INDEX - 2'
    #VER="'echo $STRING | cut -f $VER -d -'"
    #ARCH='expr $INDEX - 1'
    #ARCH="'echo $STRING | cut -f $ARCH -d -'"
    #BUILD="'echo $STRING | cut -f $INDEX -d -'"
  fi
 fi
}

# Conversion to 'comm' utility by Mark Wisdom.
# is pretty nifty! :^)
remove_packages() {
for PKGLIST in $*
do
 PKGNAME='basename $PKGLIST .tgz'
 echo
 # If we don't have a package match here, then we will attempt to find
 # a package using the long name format (name-version-arch-build) for
 # which the base package name was given.  On a properly-managed machine,
 # there should only be one package installed with a given basename, but
 # we don't enforce this policy.  If there's more than one, only one will
 # be removed.  If you want to remove them all, you'll need to run
 # removepkg again until it removes all the same-named packages.
 if [ ! -e $ADM_DIR/packages/$PKGNAME ]; then
  SHORT="'package_name $PKGNAME'"
  for long_package in $ADM_DIR/packages/${PKGNAME}* ; do
   if [ "'package_name $PKGNAME'" = "'package_name $long_package'" ]; then
    PKGNAME="'basename $long_package'"
   fi
  done
 fi
 if [ -r $ADM_DIR/packages/$PKGNAME ]; then
  if [ ! "$WARN" = true ]; then
   echo "Removing package $ADM_DIR/packages/$PKGNAME..."
  fi
  if fgrep "./" $ADM_DIR/packages/$PKGNAME 1> /dev/null 2>&1; then
   TRIGGER="^\.\/"
  else
   TRIGGER="FILE LIST:"
  fi
  if [ ! "$WARN" = true ]; then
   echo "Removing files:"
  fi
  sed -n "/$TRIGGER/,/^$/p" < $ADM_DIR/packages/$PKGNAME | \
   fgrep -v "FILE LIST:" | sort -u > $TMP/delete_list$$
  # Pat's new-new && improved pre-removal routine.
```

```
 cat_except $ADM_DIR/packages $PKGNAME | sort -u > $TMP/required_list$$
 if [ -r $ADM_DIR/scripts/$PKGNAME ]; then
  extract_links < $ADM_DIR/scripts/$PKGNAME | sort -u > $TMP/del_link_list$$
  cat_except $ADM_DIR/scripts $PKGNAME | extract_links | \
   sort -u > $TMP/required_links$$
  mv $TMP/required_list$$ $TMP/required_files$$
  sort -u $TMP/required_links$$ $TMP/required_files$$ > $TMP/required_list$$
  comm -12 $TMP/del_link_list$$ $TMP/required_list$$ | keep_links
  comm -23 $TMP/del_link_list$$ $TMP/required_list$$ | delete_links
 else
  cat $ADM_DIR/scripts/* | extract_links | \
   sort -u > $TMP/required_links$$
  mv $TMP/required_list$$ $TMP/required_files$$
  sort -u $TMP/required_links$$ $TMP/required_files$$ >$TMP/required_list$$
 fi
 comm -12 $TMP/delete_list$$ $TMP/required_list$$ | keep_files
 comm -23 $TMP/delete_list$$ $TMP/required_list$$ > $TMP/uniq_list$$
 delete_files < $TMP/uniq_list$$
 delete_dirs < $TMP/uniq_list$$
 delete_cats < $TMP/uniq_list$$
 if [ ! "$KEEP" = "true" ]; then
  rm -f $TMP/delete_list$$ $TMP/required_files$$ $TMP/uniq_list$$
  rm -f $TMP/del_link_list$$ $TMP/required_links$$ $TMP/required_list$$
 fi
 if [ "$PRESERVE" = "true" ]; then
  if [ -r $ADM_DIR/scripts/$PKGNAME ]; then
   if [ ! -d "$PRES_DIR/$PKGNAME/install" ]; then
    mkdir -p "$PRES_DIR/$PKGNAME/install"
   fi
   cp -p $ADM_DIR/scripts/$PKGNAME $PRES_DIR/$PKGNAME/install/doinst.sh
  fi
 fi
 if [ ! "$WARN" = "true" ]; then
  for DIR in $ADM_DIR/removed_packages $ADM_DIR/removed_scripts ; do
   if [ ! -d $DIR ] ; then mkdir -p $DIR ; chmod 755 $DIR ; fi
  done
  mv $ADM_DIR/packages/$PKGNAME $ADM_DIR/removed_packages
  if [ -r $ADM_DIR/scripts/$PKGNAME ]; then
   mv $ADM_DIR/scripts/$PKGNAME $ADM_DIR/removed_scripts
  fi
 fi
else
 echo "No such package: $ADM_DIR/packages/$PKGNAME. Can't remove."
fi
done
}

if [ "$#" = "0" ]; then
```

```
 echo "Usage: 'basename $0' [-copy] [-keep] [-preserve] [-warn] packagename ..."; exit 1
fi

while : ; do
case "$1" in
 -copy) WARN=true; PRESERVE=true; shift;;
 -keep) KEEP=true; shift;;
 -preserve) PRESERVE=true; shift;;
 -warn) WARN=true; shift;;
 -*) echo "Usage: 'basename $0' [-copy] [-keep] [-preserve] [-warn] packagename ..."; exit 1;;
 *) break
esac
done

if [ "$WARN" = "true" ]; then
echo "Only warning... not actually removing any files."
if [ "$PRESERVE" = "true" ]; then
 echo "Package contents is copied to $PRES_DIR."
fi
echo "Here's what would be removed (and left behind) if you"
echo "removed the package(s):"
echo
else
if [ "$PRESERVE" = "true" ]; then
 echo "Package contents is copied to $PRES_DIR."
fi
fi

remove_packages $*

#!/bin/sh
# Copyright 1999  Patrick Volkerding, Moorhead, Minnesota, USA
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```

```
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#  OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
#  ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
# Modified to handle either old 8.3 or new package-version-arch-build.tgz
# packages, Sat Nov 17 14:25:58 PST 2001 volkerdi
#
# Rewritten to clean out _all_ old packages of a given basename, not just
# the first one found, Thu Apr  4 01:01:05 PST 2002 volkerdi
#
# Added --install-new and --reinstall, Fri May 31 14:11:14 PDT 2002 volkerdi

usage() {
cat << EOF

Usage: upgradepkg newpackage [newpackage2 ... ]
     upgradepkg oldpackage%newpackage [oldpackage2%newpackage2 ... ]

Upgradepkg upgrades a Slackware .tgz package from an older version to a
newer one.  It does this by INSTALLING the new package onto the system, and
then REMOVING any files from the old package that aren't in the new package.
If the old and new packages have the same name, a single argument is all that
is required.  If the packages have different names, supply the name of the
old package followed by a percent symbol (%), then the name of the new package.
Do not add any extra whitespace between pairs of old/new package names.

Before upgrading a package, save any configuration files (such as in /etc)
that you wish to keep.  Sometimes these will be preserved, but it depends on
the package structure.  If you want to force new versions of the config files
to be installed, remove the old ones manually prior to running upgradepkg.

To upgrade in a directory other than / (such as /mnt):

  ROOT=/mnt upgradepkg package.tgz

EOF
}

# Make sure there's a proper temp directory:
TMP=/var/log/setup/tmp
# If the $TMP directory doesn't exist, create it:
if [ ! -d $TMP ]; then
 rm -rf $TMP # make sure it's not a symlink or something stupid
 mkdir $TMP
 chmod 700 $TMP # no need to leave it open
fi

# $ROOT defined?
```

```
if [ -d "$ROOT" ]; then
 export ROOT
fi

# --help or no args?
if [ "$1" = "" -o "$1" = "--help" -o "$1" = "-?" ]; then
 usage;
 exit 1;
fi

# Arg processing loop.  These must come before any packages are listed.
while [ 0 ]; do
 if [ "$1" = "--no-paranoia" ]; then
   # Enable --no-paranoia mode.  This is so not-recommended that we're
   # not even going to document it. ;)   If a file used to be directly
   # managed and now is moved into place, using --no-paranoia will cause
   # it to improperly disappear.  It does slightly speed things up, though.
   # Don't use it.
   NOT_PARANOID="true"
   shift 1
 elif [ "$1" = "--install-new" ]; then
   # Install packages that do not already have an installed version.
   # The usual default is to skip them.
   INSTALL_NEW="yes"
   shift 1
 elif [ "$1" = "--reinstall" ]; then
   # Reinstall packages even if the installed one is the same version.
   REINSTALL="true"
   shift 1
 elif [ "$1" = "--verbose" -o "$1" = "-v" ]; then
   # We're adding a --verbose mode that doesn't filter removepkg as much
   VERBOSE="verbose"
   shift 1
 else # no more args
   break;
 fi
done # processing args

ERRCODE=0

# Main processing loop:
while [ ! "$1" = "" ]; do

# Figure out the names of the old and new packages:
OLD='echo $1 | cut -f 1 -d '%"
NEW='echo $1 | cut -f 2 -d '%"
INCOMINGDIR='dirname $NEW'
OLD='basename $OLD .tgz'
```

```
NEW='basename $NEW .tgz'

# Here's a function to figure out the package name from one of those
# new long filenames.  We'll need this to double check the name of the
# old package.

package_name() {
 STRING='basename $1 .tgz'
 # Check for old style package name with one segment:
 if [ "'echo $STRING | cut -f 1 -d -'" = "'echo $STRING | cut -f 2 -d -'" ]; then
   echo $STRING
 else # has more than one dash delimited segment
   # Count number of segments:
   INDEX=1
   while [ ! "'echo $STRING | cut -f $INDEX -d -'" = "" ]; do
     INDEX='expr $INDEX + 1'
   done
   INDEX='expr $INDEX - 1' # don't include the null value
   # If we don't have four segments, return the old-style (or out of spec) package name:
   if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
     echo $STRING
   else # we have four or more segments, so we'll consider this a new-style name:
     NAME='expr $INDEX - 3'
     NAME="'echo $STRING | cut -f 1-$NAME -d -'"
     echo $NAME
     # cruft for later ;)
     #VER='expr $INDEX - 2'
     #VER="'echo $STRING | cut -f $VER -d -'"
     #ARCH='expr $INDEX - 1'
     #ARCH="'echo $STRING | cut -f $ARCH -d -'"
     #BUILD="'echo $STRING | cut -f $INDEX -d -'"
   fi
 fi
}

# Check and fix the old package name:
if [ ! -r $ROOT/var/log/packages/$OLD ]; then
 SHORT="'package_name $OLD'"
 if ls $ROOT/var/log/packages/$SHORT* 1> /dev/null 2> /dev/null ; then
   for installed_package in $ROOT/var/log/packages/$SHORT* ; do
     if [ "'package_name $installed_package'" = "$SHORT" ]; then # found one
       OLD="'basename $installed_package'"
       break
     fi
   done
 fi
fi
```

```
# Test to see if both the old and new packages are where we expect them
# to be -- skip to the next package (or package pair) if anything's wrong:

if [ ! -r $ROOT/var/log/packages/$OLD ]; then
 if [ ! "$INSTALL_NEW" = "yes" ]; then
   echo
   echo "Error:  there is no installed package named $OLD."
   echo "        (looking for $ROOT/var/log/packages/$OLD)"
   echo
   ERRCODE=1
 else # --install-new was given, so install the new package:
   cat << EOF

+==============================================================================
| Installing new package $INCOMINGDIR/$NEW.tgz
+==============================================================================

EOF
   installpkg $INCOMINGDIR/$NEW.tgz
 fi
 shift 1
 continue;
elif [ ! -r "$INCOMINGDIR/$NEW.tgz" ]; then
 echo
 echo "Error:  incoming package $INCOMINGDIR/$NEW.tgz not found."
 echo
 shift 1
 ERRCODE=1
 continue;
fi

# Unless --reinstall was given, compare the package names
# and skip any exact matches:
if [ ! "$REINSTALL" = "true" ]; then
 if [ "$OLD" = "$NEW" ]; then
   cat << EOF

+==============================================================================
| Skipping package $NEW (already installed)
+==============================================================================

EOF
   shift 1
   continue;
 fi
fi

# Showtime.  Let's do the upgrade.  First, we will rename all the
```

```
# installed packages with this basename to make them easy to remove later:

TIMESTAMP='date +%Y-%m-%d,%T'
SHORT="'package_name $OLD"'
for installed_package in $ROOT/var/log/packages/$SHORT* ; do
 if [ "'package_name $installed_package"' = "$SHORT" ]; then
  mv $installed_package ${installed_package}-upgraded-$TIMESTAMP
 fi
done
for installed_script in $ROOT/var/log/scripts/$SHORT* ; do
 if [ "'package_name $installed_script"' = "$SHORT" ]; then
  if [ -r $installed_script ]; then
   mv $installed_script ${installed_script}-upgraded-$TIMESTAMP
  fi
 fi
done

# Print a banner for the current upgrade:
cat << EOF

+==============================================================================
| Upgrading $OLD package using $INCOMINGDIR/$NEW.tgz
+==============================================================================

EOF

# Next, the new package is pre-installed:
if [ "$VERBOSE" = "verbose" ]; then
 installpkg $INCOMINGDIR/$NEW.tgz
else
 echo "Pre-installing package $NEW..."
 installpkg $INCOMINGDIR/$NEW.tgz 1> /dev/null
fi

# Now, the leftovers from the old package(s) can go.  Pretty simple, huh? :)
if [ -d "$ROOT" ]; then
 ( cd $ROOT/var/log/packages
  for rempkg in *-$TIMESTAMP ; do
   if [ "$VERBOSE" = "verbose" ]; then
    ROOT=$ROOT removepkg $rempkg
   else
    ROOT=$ROOT removepkg $rempkg | grep -v "Skipping\." | grep -v "Removing files:"
   fi
  done
 )
else
 ( cd /var/log/packages
  for rempkg in *-$TIMESTAMP ; do
```

```
    if [ "$VERBOSE" = "verbose" ]; then
      removepkg $rempkg
    else
      removepkg $rempkg | grep -v "Skipping\." | grep -v "Removing files:"
    fi
  done
 )
fi
echo

# Again!  Again!
# Seriously, the reinstalling of a package can be crucial if any files
# shift location, so we should always reinstall as the final step:
if [ ! "$NOT_PARANOID" = "true" ]; then
 installpkg $INCOMINGDIR/$NEW.tgz
fi

echo "Package $OLD upgraded with new package $INCOMINGDIR/$NEW.tgz."
ERRCODE=0

# Process next parameter:
shift 1

done

echo
exit $ERRCODE
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#
```

```
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Written by John Gilmore and Jay Fenlason
```

2.284 Pod-Simple 3.28

2.284.1 Available under license :

```
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```

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```
 "license" : [
   "perl_5"
 ]
```

2.285 POE 1.35

2.285.1 Available under license :

from POE.pm

```
# Copyrights and documentation are after __END__.

<snip>

=head1 AUTHORS & COPYRIGHT

POE is the combined effort of quite a lot of people.  This is an
incomplete list of some early contributors.  A more complete list can
be found in POE's change log.

=over 2

=item Ann Barcomb

Ann Barcomb is <kudra@domaintje.com>, aka C<kudra>.  Ann contributed
large portions of POE::Simple and the code that became the ReadWrite
support in POE::Component::Server::TCP.  Her ideas also inspired
Client::TCP component, introduced in version 0.1702.

=item Artur Bergman

Artur Bergman is <sky@cpan.org>.  He contributed many hours' work into
POE and quite a lot of ideas.  Years later, I decide he's right and
actually implement them.

Artur is the author of Filter::HTTPD and Filter::Reference, as well as
bits and pieces throughout POE.  His feedback, testing, design and
inspiration have been instrumental in making POE what it is today.

Artur is investing his time heavily into perl 5's iThreads and PONIE
at the moment.  This project has far-reaching implications for POE's
```

future.

=item Jos Boumans

Jos Boumans is <kane@cpan.org>, aka C<kane>. Jos is a major driving force behind the POE::Simple movement and has helped inspire the POE::Components for TCP clients and servers.

=item Matt Cashner

Matt Cashner is <sungo@pobox.com>, aka C<sungo>. Matt is one of POE's core developers. He's spearheaded the movement to simplify POE for new users, flattening the learning curve and making the system more accessible to everyone. He uses the system in mission critical applications, folding feedback and features back into the distribution for everyone's enjoyment.

=item Andrew Chen

Andrew Chen is <achen-poe@micropixel.com>. Andrew is the resident POE/Windows guru. He contributes much needed testing for Solaris on the SPARC and Windows on various Intel platforms.

=item Douglas Couch

Douglas Couch is <dscouch@purdue.edu>. Douglas helped port and maintain POE for Windows early on.

=item Jeffrey Goff

Jeffrey Goff is <jgoff@blackboard.com>. Jeffrey is the author of several POE modules, including a tokenizing filter and a component for managing user information, PoCo::UserBase. He's also co-author of "A Beginner's Introduction to POE" at www.perl.com.

=item Philip Gwyn

Philip Gwyn is <gwynp@artware.qc.ca>. He extended the Wheels I/O abstraction to support hot-swappable filters, and he eventually convinced Rocco that unique session and kernel IDs were a good thing.

Philip also enhanced L<POE::Filter::Reference|POE::Filter::Reference> to support different serialization methods. He has also improved POE's quality by finding and fixing several bugs. He provided POE a much needed code review around version 0.06.

Lately, Philip tracked down the race condition in signal handling and fixed it with the signal pipe.

=item Arnar M. Hrafnkelsson

Arnar is <addi@umich.edu>. Addi tested POE and L<POE::Component::IRC|POE::Component::IRC> on
Windows, finding bugs and testing fixes. He appears throughout the Changes
file. He has also written "cpoe", which is a POE-like library for C.

=item Dave Paris

Dave Paris is <dparis@w3works.com>. Dave tested and benchmarked POE
around version 0.05, discovering some subtle (and not so subtle)
timing problems. The pre-forking server sample was his idea.
Versions 0.06 and later scaled to higher loads because of his work.
He has contributed a lot of testing and feedback, much of which is
tagged in the Changes file as a-mused. The man is scarily good at
testing and troubleshooting.

=item Dieter Pearcey

Dieter Pearcey is <dieter@bullfrog.perlhacker.org>. He goes by several
Japanese nicknames. Dieter's current area of expertise is in Wheels and
Filters. He greatly improved L<POE::Wheel::FollowTail|POE::Wheel::FollowTail>, and his Filter
contributions include the basic Block filter, as well as Stackable,
RecordBlock, Grep and Map.

=item Plixer International

Plixer International is at L<http://plixer.com/>. Their sponsorship
has helped POE 1.300 and beyond be significantly more robust using
iThreads, especially when using fork() in Windows.

=item Robert Seifer

Robert Seifer is <e-mail unknown>. He rotates IRC nicknames
regularly.

Robert contributed entirely too much time, both his own and his
computers, towards the detection and eradication of a memory
corruption bug that POE tickled in earlier Perl versions. In the end,
his work produced a simple compile-time hack that worked around a
problem relating to anonymous subs, scope and @{} processing.

=item Matt Sergeant

Matt contributed C<POE::Kernel::Poll>, a more efficient way to watch
multiple files than select(). It's since been moved to
L<POE::Loop::IO_Poll|POE::Loop::IO_Poll>.

=item Richard Soderberg

Richard Soderberg is <poe@crystalflame.net>, aka C<coral>. Richard is
a collaborator on several side projects involving POE. His work
provides valuable testing and feedback from a user's point of view.

=item Dennis Taylor

Dennis Taylor is <dennis@funkplanet.com>. Dennis has been testing,
debugging and patching bits here and there, such as Filter::Line which
he improved by leaps in 0.1102. He's also the author of
L<POE::Component::IRC|POE::Component::IRC>, the widely popular POE-based successor to his
wildly popular L<Net::IRC|Net::IRC> library.

=item David Davis

David Davis, aka Xantus is <xantus@cpan.org>. David contributed patches
to the HTTPD filter, and added CALLER_STATE to L<POE::Session|POE::Session>. He is the
author of L<Sprocket>, a networking framework built on POE.

=item Others?

Please contact the author if you've been forgotten and would like to
be included here.

Z<TODO - This section has fallen into disrepair. A POE historian needs
to cull the CHANGES for the names of major contributors.>

=back

=head2 Author

=over 2

=item Rocco Caputo

Rocco Caputo is <rcaputo@cpan.org>. POE is his brainchild. He wishes
to thank you for your interest, and he has more thanks than he can
count for all the people who have contributed. POE would not be
nearly as cool without you.

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=back

Thank you for reading!

=cut

rocco // vim: ts=2 sw=2 expandtab
TODO - Edit.
from /mylib/svn-log.perl

#!/usr/bin/env perl

This program is Copyright 2005 by Rocco Caputo. All rights are
reserved. This program is free software. It may be modified, used,
and redistributed under the same terms as Perl itself.

Generate a nice looking change log from the subversion logs for a
Perl project. The log is also easy for machines to parse.

<snip>
from META.yml

---
abstract: 'Portable, event-loop agnostic eventy networking and multitasking.'
author:
 - 'Rocco Caputo <rcaputo@cpan.org>'
build_requires:
 POE::Test::Loops: 1.350
configure_requires:
 Module::Build: 0.36
 POE::Test::Loops: 1.350
generated_by: 'Module::Build version 0.3607'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: POE
no_index:
 directory:
   - mylib
   - t
provides:
 POE:
   file: lib/POE.pm
   version: 1.350
 POE::Component:
   file: lib/POE/Component.pm
   version: 1.350

POE::Component::Client::TCP:
  file: lib/POE/Component/Client/TCP.pm
  version: 1.350
POE::Component::Server::TCP:
  file: lib/POE/Component/Server/TCP.pm
  version: 1.350
POE::Driver:
  file: lib/POE/Driver.pm
  version: 1.350
POE::Driver::SysRW:
  file: lib/POE/Driver/SysRW.pm
  version: 1.350
POE::Filter:
  file: lib/POE/Filter.pm
  version: 1.350
POE::Filter::Block:
  file: lib/POE/Filter/Block.pm
  version: 1.350
POE::Filter::Grep:
  file: lib/POE/Filter/Grep.pm
  version: 1.350
POE::Filter::HTTPD:
  file: lib/POE/Filter/HTTPD.pm
  version: 1.350
POE::Filter::Line:
  file: lib/POE/Filter/Line.pm
  version: 1.350
POE::Filter::Map:
  file: lib/POE/Filter/Map.pm
  version: 1.350
POE::Filter::RecordBlock:
  file: lib/POE/Filter/RecordBlock.pm
  version: 1.350
POE::Filter::Reference:
  file: lib/POE/Filter/Reference.pm
  version: 1.350
POE::Filter::Stackable:
  file: lib/POE/Filter/Stackable.pm
  version: 1.350
POE::Filter::Stream:
  file: lib/POE/Filter/Stream.pm
  version: 1.350
POE::Kernel:
  file: lib/POE/Kernel.pm
  version: 1.350
POE::Loop:
  file: lib/POE/Loop.pm
  version: 1.350

POE::Loop::IO_Poll:
  file: lib/POE/Loop/IO_Poll.pm
  version: 1.350
POE::Loop::PerlSignals:
  file: lib/POE/Loop/PerlSignals.pm
  version: 1.350
POE::Loop::Select:
  file: lib/POE/Loop/Select.pm
  version: 1.350
POE::NFA:
  file: lib/POE/NFA.pm
  version: 1.350
POE::Pipe:
  file: lib/POE/Pipe.pm
  version: 1.350
POE::Pipe::OneWay:
  file: lib/POE/Pipe/OneWay.pm
  version: 1.350
POE::Pipe::TwoWay:
  file: lib/POE/Pipe/TwoWay.pm
  version: 1.350
POE::Queue:
  file: lib/POE/Queue.pm
  version: 1.350
POE::Queue::Array:
  file: lib/POE/Queue/Array.pm
  version: 1.350
POE::Resource:
  file: lib/POE/Resource.pm
  version: 1.350
POE::Resource::Aliases:
  file: lib/POE/Resource/Aliases.pm
  version: 1.350
POE::Resource::Events:
  file: lib/POE/Resource/Events.pm
  version: 1.350
POE::Resource::Extrefs:
  file: lib/POE/Resource/Extrefs.pm
  version: 1.350
POE::Resource::FileHandles:
  file: lib/POE/Resource/FileHandles.pm
  version: 1.350
POE::Resource::SIDs:
  file: lib/POE/Resource/SIDs.pm
  version: 1.350
POE::Resource::Sessions:
  file: lib/POE/Resource/Sessions.pm
  version: 1.350

```
 POE::Resource::Signals:
   file: lib/POE/Resource/Signals.pm
   version: 1.350
 POE::Resources:
   file: lib/POE/Resources.pm
   version: 1.350
 POE::Session:
   file: lib/POE/Session.pm
   version: 1.350
 POE::Wheel:
   file: lib/POE/Wheel.pm
   version: 1.350
 POE::Wheel::Curses:
   file: lib/POE/Wheel/Curses.pm
   version: 1.350
 POE::Wheel::FollowTail:
   file: lib/POE/Wheel/FollowTail.pm
   version: 1.350
 POE::Wheel::ListenAccept:
   file: lib/POE/Wheel/ListenAccept.pm
   version: 1.350
 POE::Wheel::ReadLine:
   file: lib/POE/Wheel/ReadLine.pm
   version: 1.350
 POE::Wheel::ReadLine::Keymap:
   file: lib/POE/Wheel/ReadLine.pm
 POE::Wheel::ReadWrite:
   file: lib/POE/Wheel/ReadWrite.pm
   version: 1.350
 POE::Wheel::Run:
   file: lib/POE/Wheel/Run.pm
   version: 1.350
 POE::Wheel::SocketFactory:
   file: lib/POE/Wheel/SocketFactory.pm
   version: 1.350
requires:
 Carp: 0
 Errno: 1.09
 Exporter: 0
 File::Spec: 0.87
 IO: 1.24
 IO::Handle: 1.27
 IO::Tty: 1.08
 POE::Test::Loops: 1.350
 POSIX: 1.02
 Socket: 1.7
 Storable: 2.16
 Test::Harness: 2.26
```

Time::HiRes: 1.59
resources:
homepage: http://poe.perl.org/
license: http://dev.perl.org/licenses/
repository: https://github.com/rcaputo/poe
version: 1.350
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2.286 POE-Test-Loops 1.35

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2.287 POE-XS-Queue-Array 0.0060

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from Array.pm

<snip>

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=head1 AUTHOR

Tony Cook <tonyc@cpan.org>

=cut

From META.yml

```
--- #YAML:1.0
name:               POE-XS-Queue-Array
version:            0.006
abstract:           XS version of POE::Queue::Array
license:            perl
author:
  - Tony Cook <tonyc@cpan.org>
generated_by:       ExtUtils::MakeMaker version 6.42
distribution_type:  module
requires:
  POE:                      0.29
meta-spec:
  url:     http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
```

From README

<snip>

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2.288 portmap 6.0

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.\"
.\"   from: @(#)portmap.8 5.3 (Berkeley) 3/16/91
.\" $Id: portmap.8,v 1.2 2004/04/03 09:30:21 herbert Exp $
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2.289 procps 3.2.8

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The reason we have a separate public license for some libraries is that

they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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2.290 protobuf 2.4.1

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  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only
    once per string per serialization call.
  * Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
  * Added CodedInputStream.getTotalBytesRead().
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2.293 pyparsing 2.0.1

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2.294 python 2.7.6

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```
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
```

BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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2.295 readline 5.2

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2.296 Regexp-Common 2.122

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2.297 Return-Value 1.666001

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2.298 rpm 4.2.1

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2.299 rpm/db_and_rpmdb 4.2.1

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```
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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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[This is the first released version of the library GPL. It is
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with the library, after making changes to the library and recompiling
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this

will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General

Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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That's all there is to it!
Id

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RRDTOOL - Round Robin Database Tool
A tool for fast logging of numerical data graphical display
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2.303 run-parts 1.0

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2.304 Safe 2.33

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2.305 Scalar-List-Utils 1.22

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From README

This distribution is a replacement for the builtin distribution.

This package contains a selection of subroutines that people have
expressed would be nice to have in the perl core, but the usage would not
really be high enough to warrant the use of a keyword, and the size so
small such that being individual extensions would be wasteful.

After unpacking the distribution, to install this module type

```
perl Makefile.PL
make
make test
make install
```

KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will
show up as tests 8 and 9 of dualvar.t failing

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when it starts in an interactive mode:

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
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That's all there is to it!

2.306 Schedule-Cron 0.99

2.306.1 Available under license :

from /lib/Schedule/Cron.pm

<snip>

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=head1 AUTHOR

... roland

=cut

1;

From META.yml

```
---
name: Schedule-Cron
version: 0.99
author:
 - Roland Huss (roland@cpan.org)
abstract: cron-like scheduler for Perl subroutines
license: perl
resources:
 license: http://dev.perl.org/licenses/
build_requires:
 Test: 0
 Test::More: 0
requires:
 Data::Dumper: 0
 Time::ParseDate: 99.00
recommends:
 Module::Build: 0
 ioctl.ph: 0
 sys::ioctl.ph: 0
configure_requires:
 Module::Build: 0.34
provides:
 Schedule::Cron:
   file: lib/Schedule/Cron.pm
   version: 0.99
generated_by: Module::Build version 0.34
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
```

From README

<snip>

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<signature of Ty Coon>, 1 April 1989
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2.307 scrub 2.2

2.307.1 Available under license :

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2.308 sed 4.1.5

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2.309 Set-Crontab 1.02

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From Crontab.pm

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2.310 Set-Infinite 0.63

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when it starts in an interactive mode:

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.311 Set-Scalar 1.26

2.311.1 Available under license :

from lib/Set/Scalar.pm

=head1 AUTHOR

Jarkko Hietaniemi <jhi@iki.fi>

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=cut

1;
From META.yml

---
abstract: unknown
author:
 - 'Jarkko Hietaniemi <jhi@iki.fi>'
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120630'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Set-Scalar
no_index:
 directory:
   - t
   - inc
requires: {}
version: 1.26
    The "Artistic License"

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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2.312 shadow 4.1.4.2

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2.315 smtpclient 1.0.0

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L I C E N S E

SMTPclient -- simple SMTP client

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2.317 Socket-GetAddrInfo 0.21

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Socket6.pm and Socket6.xs are based on perl5.005_55-v6-19990721 written by KAME Project.

gai.h, getaddrinfo.c and getnameinfo.c are based on ssh-1.2.27-IPv6-1.5 written by KIKUCHI Takahiro <kick@kyoto.wide.ad.jp>.

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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.320 sshfs-fuse 2.5

2.320.1 Available under license :

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 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

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2.321 Storable 2.21

2.321.1 Available under license :

from /t/forgive.t
==========

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#
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#
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in the README file that comes with the distribution.
#
Original Author: Ulrich Pfeifer
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#

from README
==========

                Storable 2.14
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```
+============================================================================
| Storable is distributed as a module, but is also part of the official
| Perl core distribution, as of perl 5.8.
| Maintenance is now done by the perl5-porters.  We thank Raphael
| Manfredi for providing us with this very useful module.
+============================================================================
```

The Storable extension brings persistency to your data.

You may recursively store to disk any data structure, no matter how
complex and circular it is, provided it contains only SCALAR, ARRAY,
HASH (possibly tied) and references (possibly blessed) to those items.

At a later stage, or in another program, you may retrieve data from
the stored file and recreate the same hiearchy in memory. If you
had blessed references, the retrieved references are blessed into
the same package, so you must make sure you have access to the
same perl class than the one used to create the relevant objects.

There is also a dclone() routine which performs an optimized mirroring
of any data structure, preserving its topology.

Objects (blessed references) may also redefine the way storage and
retrieval is performed, and/or what deep cloning should do on those
objects.

To compile this extension, run:

```
perl Makefile.PL [PERL_SRC=...where you put perl sources...]
make
make install
```

There is an embeded POD manual page in Storable.pm.

Storable was written by Raphael Manfredi <Raphael_Manfredi@pobox.com>
Maitainance is now done by the perl5-porters <perl5-porters@perl.org>

Please e-mail us with problems, bug fixes, comments and complaints,
although if you have complements you should send them to Raphael.
Please don't e-mail Raphael with problems, as he no longer works on
Storable, and your message will be delayed while he forwards it to us.

Thanks to (in chronological order):

Jarkko Hietaniemi <jhi@iki.fi>
Ulrich Pfeifer <pfeifer@charly.informatik.uni-dortmund.de>
Benjamin A. Holzman <bah@ecnvantage.com>
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Albert N. Micheev <Albert.N.Micheev@f80.n5049.z2.fidonet.org>
Marc Lehmann <pcg@opengroup.org>
Justin Banks <justinb@wamnet.com>
Jarkko Hietaniemi <jhi@iki.fi> (AGAIN, as perl 5.7.0 Pumpkin!)

for their contributions.

A Japanese translation of this man page is available at the Japanized
Perl Resources Project <https://sourceforge.jp/projects/perldocjp/>.

The perl5-porters would like to thank

Raphael Manfredi <Raphael_Manfredi@pobox.com>

According to the perl5.8 Changes file, the following people have helped
bring you this Storable release:

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Tim Bunce <Tim.Bunce@pobox.com>
VMSperlers
Yitzchak Scott-Thoennes <sthoenna@efn.org>

If I've missed you out, please accept my apologies, and e-mail your patch to perl5-porters@perl.org.

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2.325 Sub-Uplevel 0.22

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2.328 Sys-Hwloc/examples subpart 0.1

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DAMAGE.

2.329 Sys-Syslog 0.32

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```
---
abstract: 'Perl interface to the UNIX syslog(3) calls'
author:
 - 'Sebastien Aperghis-Tramoni <sebastien@aperghis.net>'
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Sys-Syslog
no_index:
 directory:
   - t
   - inc
requires:
 Carp: 0
 Fcntl: 0
 File::Basename: 0
 File::Spec: 0
 POSIX: 0
 Socket: 0
 Test::More: 0
 XSLoader: 0
resources:
 repository: https://github.com/maddingue/Sys-Syslog.git
version: 0.32
NAME

   Sys::Syslog - Perl interface to the UNIX syslog(3) calls


DESCRIPTION

   Sys::Syslog is an interface to the UNIX syslog(3) program.
   Call syslog() with a string priority and a list of printf() args
   just like syslog(3).
```

INSTALLATION

To install this module, run the following commands:

```
$ perl Makefile.PL
$ make
$ make test
$ make install
```

An ANSI-compliant compiler is required to compile the extension.

Sys::Syslog should work on any Perl since 5.6.0. This module is regularly compiled and tested by the CPAN Testers on various combinations of Perl and operating systems.

See also the corresponding CPAN Testers page:
http://testers.cpan.org/show/Sys-Syslog.html

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

```
perldoc Sys::Syslog
```

You can also look for information at:

Search CPAN
http://search.cpan.org/dist/Sys-Syslog/

MetaCPAN
https://metacpan.org/module/Sys::Syslog

CPAN Request Tracker:
http://rt.cpan.org/NoAuth/Bugs.html?Dist=Sys-Syslog

AnnoCPAN, annotated CPAN documentation:
http://annocpan.org/dist/Sys-Syslog

CPAN Ratings:
http://cpanratings.perl.org/d/Sys-Syslog

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from Syslog.pm
==========

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Version 1, February 1989

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2.330 sysfsutils 2.1.0

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the version number 2.1.]

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2.331 sysklogd 1.5

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2.334 sysvinit 2.88dsf

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).

*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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2.335 tar 1.27.1

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2.338 Task-Weaken 1.03

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.Op Fl 8EFKLacdfrx
.Op Fl X Ar authtype
.Op Fl b Ar hostalias
.Op Fl e Ar escapechar
.Op Fl k Ar realm
.Op Fl l Ar user
.Op Fl n Ar tracefile
.Oo
.Ar host
.Op Ar port
.Oc
.Sh DESCRIPTION
The
.Nm
command
is used to communicate with another host using the
.Tn TELNET
protocol.
If
.Nm
is invoked without the
.Ar host
argument, it enters command mode,
indicated by its prompt
.Pq Nm telnet\&> .
In this mode, it accepts and executes the commands listed below.
If it is invoked with arguments, it performs an
.Ic open
command with those arguments.
.Pp
The options are as follows:
.Bl -tag -width Ds
.It Fl 8
Specifies an 8-bit data path.
This causes an attempt to negotiate the
.Dv TELNET BINARY
option on both input and output.
.It Fl E
Stops any character from being recognized as an escape character.
.It Fl F
If Kerberos 5 authentication is being used, the
.Fl F
option allows the local credentials to be forwarded
to the remote system, including any credentials that
have already been forwarded into the local environment.
.It Fl K
Specifies no automatic login to the remote system.
.It Fl L

Specifies an 8-bit data path on output.
This causes the BINARY option to be negotiated on output.
.It Fl X Ar atype
Disables the
.Ar atype
type of authentication.
.It Fl a
Attempt automatic login.
Currently, this sends the user name via the
.Ev USER
variable
of the
.Ev ENVIRON
option if supported by the remote system.
The name used is that of the current user as returned by
.Xr getlogin 2
if it agrees with the current user ID,
otherwise it is the name associated with the user ID.
.It Fl b Ar hostalias
Uses
.Xr bind 2
on the local socket to bind it to an aliased address (see
.Xr ifconfig 8
and the "alias" specifier) or to the address of
another interface than the one naturally chosen by
.Xr connect 2 .
This can be useful when connecting to services which use IP addresses
for authentication and reconfiguration of the server is undesirable (or
impossible).
.It Fl c
Disables the reading of the user's
.Pa \&.telnetrc
file.
(See the
.Ic toggle skiprc
command on this man page.)
.It Fl d
Sets the initial value of the
.Ic debug
toggle to
.Dv TRUE .
.It Fl e Ar escapechar
Sets the initial
.Nm
escape character to
.Ar escapechar Ns .
If
.Ar escapechar

is omitted, then
there will be no escape character.
.It Fl f
If Kerberos 5 authentication is being used, the
.Fl f
option allows the local credentials to be forwarded to the remote system.
.It Fl k Ar realm
If Kerberos authentication is being used, the
.Fl k
option requests that
.Nm
obtain tickets for the remote host in
realm
.Ar realm
instead of the remote host's realm, as determined
by
.Xr krb_realmofhost 3 .
.It Fl l Ar user
When connecting to the remote system, if the remote system
understands the
.Ev ENVIRON
option, then
.Ar user
will be sent to the remote system as the value for the variable USER.
This option implies the
.Fl a
option.
This option may also be used with the
.Ic open
command.
.It Fl n Ar tracefile
Opens
.Ar tracefile
for recording trace information.
See the
.Ic set tracefile
command below.
.It Fl r
Specifies a user interface similar to
.Xr rlogin 1 .
In this
mode, the escape character is set to the tilde (~) character,
unless modified by the
.Fl e
option.
.It Fl x
Turns on encryption of the data stream if Kerberos is used.
.It Ar host

Indicates the official name, an alias, or the Internet address
of a remote host.
.It Ar port
Indicates a port number (address of an application).
If a number is not specified, the default
.Nm
port is used.
.El
.Pp
When in rlogin mode, a line of the form ~.
disconnects from the
remote host; ~ is the telnet escape character.
Similarly, the line ~^Z suspends the telnet session.
The line ~^] escapes to the normal telnet escape prompt.
.Pp
Once a connection has been opened,
.Nm
will attempt to enable the
.Dv TELNET LINEMODE
option.
If this fails,
.Nm
will revert to one of two input modes:
either "character at a time"
or "old line by line"
depending on what the remote system supports.
.Pp
When
.Dv LINEMODE
is enabled, character processing is done on the
local system, under the control of the remote system.
When input
editing or character echoing is to be disabled, the remote system
will relay that information.
The remote system will also relay
changes to any special characters that happen on the remote
system, so that they can take effect on the local system.
.Pp
In "character at a time" mode, most
text typed is immediately sent to the remote host for processing.
.Pp
In "old line by line" mode, all text is echoed locally,
and (normally) only completed lines are sent to the remote host.
The "local echo character" (initially "^E") may be used
to turn off and on the local echo
(this would mostly be used to enter passwords
without the password being echoed).
.Pp

If the
.Dv LINEMODE
option is enabled, or if the
.Ic localchars
toggle is
.Dv TRUE
(the default for "old line by line"; see below),
the user's
.Ic quit ,
.Ic intr ,
and
.Ic flush
characters are trapped locally, and sent as
.Tn TELNET
protocol sequences to the remote side.
If
.Dv LINEMODE
has ever been enabled, then the user's
.Ic susp
and
.Ic eof
are also sent as
.Tn TELNET
protocol sequences,
and
.Ic quit
is sent as a
.Dv TELNET ABORT
instead of
.Dv BREAK .
There are options (see
.Ic toggle
.Ic autoflush
and
.Ic toggle
.Ic autosynch
below)
which cause this action to flush subsequent output to the terminal
(until the remote host acknowledges the
.Tn TELNET
sequence) and flush previous terminal input
(in the case of
.Ic quit
and
.Ic intr) .
.Pp
While connected to a remote host,
.Nm

command mode may be entered by typing the
.Nm
"escape character" (initially "^]").
When in command mode, the normal terminal editing conventions are available.
Note that the escape character will return to the command mode of the initial
invocation of
.Nm
that has the controlling terminal.
Use the
.Cm send escape
command to switch to command mode in subsequent
.Nm
processes on remote hosts.
.Pp
The following
.Nm
commands are available.
Only enough of each command to uniquely identify it need be typed
(this is also true for arguments to the
.Ic mode ,
.Ic set ,
.Ic toggle ,
.Ic unset ,
.Ic slc ,
.Ic environ ,
and
.Ic display
commands).
.Bl -tag -width "mode type"
.It Ic auth Ar argument Op Ar ...
The
.Ic auth
command manipulates the information sent through the
.Dv TELNET AUTHENTICATE
option.
Valid arguments for the
.Ic auth
command are as follows:
.Bl -tag -width "disable type"
.It Ic disable Ar type
Disables the specified
.Ar type
of authentication.
To obtain a list of available types, use the
.Ic auth disable \&?
command.
.It Ic enable Ar type
Enables the specified

.Ar type
of authentication.
To obtain a list of available types, use the
.Ic auth enable \&?
command.
.It Ic status
Lists the current status of the various types of
authentication.
.El
.It Ic close
Close a
.Tn TELNET
session and return to command mode.
.It Ic display Ar argument Op Ar ...
Displays all, or some, of the
.Ic set
and
.Ic toggle
values (see below).
.It Ic encrypt Ar argument Op Ar ...
The
.Ic encrypt
command manipulates the information sent through the
.Dv TELNET ENCRYPT
option that's available when Kerberos is used.
.Pp
Valid arguments for the encrypt command are as follows:
.Bl -tag -width Ar
.It Ic disable Ar type Ic [input|output]
Disables the specified
.Ar type
of encryption.
If you omit
.Ic input
and
.Ic output ,
both input and output
are disabled.
To obtain a list of available types, use the
.Ic encrypt disable \&?
command.
.It Ic enable Ar type Ic [input|output]
Enables the specified
.Ar type
of encryption.
If you omit
.Ic input
and

.Ic output ,
both input and output are
enabled.
To obtain a list of available types, use the
.Ic encrypt enable \&?
command.
.It Ic input
This is the same as the
.Ic encrypt start input
command.
.It Ic -input
This is the same as the
.Ic encrypt stop input
command.
.It Ic output
This is the same as the
.Ic encrypt start output
command.
.It Ic -output
This is the same as the
.Ic encrypt stop output
command.
.It Ic start Ic [input|output]
Attempts to start encryption.
If you omit
.Ic input
and
.Ic output ,
both input and output are enabled.
To obtain a list of available types, use the
.Ic encrypt enable \&?
command.
.It Ic status
Lists the current status of encryption.
.It Ic stop Ic [input|output]
Stops encryption.
If you omit
.Ic input
and
.Ic output ,
encryption is on both input and output.
.It Ic type Ar type
Sets the default type of encryption to be used
with later
.Ic encrypt start
or
.Ic encrypt stop
commands.

.El
.It Ic environ Ar arguments Op Ar ...
The
.Ic environ
command is used to manipulate the
variables that may be sent through the
.Dv TELNET ENVIRON
option.
The initial set of variables is taken from the users
environment, with only the
.Ev DISPLAY
and
.Ev PRINTER
variables being exported by default.
The
.Ev USER
variable is also exported if the
.Fl a
or
.Fl l
options are used.
.br
Valid arguments for the
.Ic environ
command are:
.Bl -tag -width Fl
.It Ic define Ar variable value
Define the variable
.Ar variable
to have a value of
.Ar value .
Any variables defined by this command are automatically exported.
The
.Ar value
may be enclosed in single or double quotes so
that tabs and spaces may be included.
.It Ic undefine Ar variable
Remove
.Ar variable
from the list of environment variables.
.It Ic export Ar variable
Mark the variable
.Ar variable
to be exported to the remote side.
.It Ic unexport Ar variable
Mark the variable
.Ar variable
to not be exported unless

explicitly asked for by the remote side.
.It Ic list
List the current set of environment variables.
Those marked with a
.Cm *
will be sent automatically,
other variables will only be sent if explicitly requested.
.It Ic \&?
Prints out help information for the
.Ic environ
command.
.El
.It Ic logout
Sends the
.Dv TELNET LOGOUT
option to the remote side.
This command is similar to a
.Ic close
command; however, if the remote side does not support the
.Dv LOGOUT
option, nothing happens.
If, however, the remote side does support the
.Dv LOGOUT
option, this command should cause the remote side to close the
.Tn TELNET
connection.
If the remote side also supports the concept of
suspending a user's session for later reattachment,
the logout argument indicates that you
should terminate the session immediately.
.It Ic mode Ar type
.Ar type
is one of several options, depending on the state of the
.Tn TELNET
session.
The remote host is asked for permission to go into the requested mode.
If the remote host is capable of entering that mode, the requested
mode will be entered.
.Bl -tag -width Ar
.It Ic character
Disable the
.Dv TELNET LINEMODE
option, or, if the remote side does not understand the
.Dv LINEMODE
option, then enter "character at a time" mode.
.It Ic line
Enable the
.Dv TELNET LINEMODE

option, or, if the remote side does not understand the
.Dv LINEMODE
option, then attempt to enter "old-line-by-line" mode.
.It Ic isig Pq Ic \-isig
Attempt to enable (disable) the
.Dv TRAPSIG
mode of the
.Dv LINEMODE
option.
This requires that the
.Dv LINEMODE
option be enabled.
.It Ic edit Pq Ic \-edit
Attempt to enable (disable) the
.Dv EDIT
mode of the
.Dv LINEMODE
option.
This requires that the
.Dv LINEMODE
option be enabled.
.It Ic softtabs Pq Ic \-softtabs
Attempt to enable (disable) the
.Dv SOFT_TAB
mode of the
.Dv LINEMODE
option.
This requires that the
.Dv LINEMODE
option be enabled.
.It Ic litecho Pq Ic \-litecho
Attempt to enable (disable) the
.Dv LIT_ECHO
mode of the
.Dv LINEMODE
option.
This requires that the
.Dv LINEMODE
option be enabled.
.It Ic \&?
Prints out help information for the
.Ic mode
command.
.El
.It Xo
.Ic open Ar host
.Op Fl l Ar user
.Oo Op Fl

.Ar port Oc
.Xc
Open a connection to the named host.
If no port number
is specified,
.Nm
will attempt to contact a
.Tn TELNET
server at the default port.
The host specification may be either a host name (see
.Xr hosts 5)
or an Internet address specified in the "dot notation" (see
.Xr inet 3) .
The
.Fl l
option may be used to specify the user name
to be passed to the remote system via the
.Ev ENVIRON
option.
When connecting to a non-standard port,
.Nm
omits any automatic initiation of
.Tn TELNET
options.
When the port number is preceded by a minus sign,
the initial option negotiation is done.
After establishing a connection, the file
.Pa \&.telnetrc
in the
user's home directory is opened.
Lines beginning with a "#" are
comment lines.
Blank lines are ignored.
Lines that begin
without whitespace are the start of a machine entry.
The first thing on the line is the name of the machine that is
being connected to.
The rest of the line, and successive
lines that begin with whitespace are assumed to be
.Nm
commands and are processed as if they had been typed
in manually to the
.Nm
command prompt.
.It Ic quit
Close any open
.Tn TELNET
session and exit

.Nm telnet .
An end-of-file (in command mode) will also close a session and exit.
.It Ic send Ar arguments
Sends one or more special character sequences to the remote host.
The following are the arguments which may be specified
(more than one argument may be specified at a time):
.Bl -tag -width escape
.It Ic abort
Sends the
.Dv TELNET ABORT
(Abort
processes)
sequence.
.It Ic ao
Sends the
.Dv TELNET AO
(Abort Output) sequence, which should cause the remote system to flush
all output
.Em from
the remote system
.Em to
the user's terminal.
.It Ic ayt
Sends the
.Dv TELNET AYT
(Are You There)
sequence, to which the remote system may or may not choose to respond.
.It Ic brk
Sends the
.Dv TELNET BRK
(Break) sequence, which may have significance to the remote
system.
.It Ic ec
Sends the
.Dv TELNET EC
(Erase Character)
sequence, which should cause the remote system to erase the last character
entered.
.It Ic el
Sends the
.Dv TELNET EL
(Erase Line)
sequence, which should cause the remote system to erase the line currently
being entered.
.It Ic eof
Sends the
.Dv TELNET EOF
(End Of File)

sequence.
.It Ic eor
Sends the
.Dv TELNET EOR
(End of Record)
sequence.
.It Ic escape
Sends the current
.Nm
escape character (initially "^]").
.It Ic ga
Sends the
.Dv TELNET GA
(Go Ahead)
sequence, which likely has no significance to the remote system.
.It Ic getstatus
If the remote side supports the
.Dv TELNET STATUS
command,
.Ic getstatus
will send the subnegotiation to request that the server send
its current option status.
.It Ic ip
Sends the
.Dv TELNET IP
(Interrupt Process) sequence, which should cause the remote
system to abort the currently running process.
.It Ic nop
Sends the
.Dv TELNET NOP
(No OPeration)
sequence.
.It Ic susp
Sends the
.Dv TELNET SUSP
(SUSPend process)
sequence.
.It Ic synch
Sends the
.Dv TELNET SYNCH
sequence.
This sequence causes the remote system to discard all previously typed
(but not yet read) input.
This sequence is sent as
.Tn TCP
urgent
data (and may not work if the remote system is a
.Bx 4.2

system -- if
it doesn't work, a lower case "r" may be echoed on the terminal).
.It Ic do Ar cmd
Sends the
.Dv TELNET DO
.Ar cmd
sequence.
.Ar cmd
can be either a decimal number between 0 and 255,
or a symbolic name for a specific
.Dv TELNET
command.
.Ar cmd
can also be either
.Ic help
or
.Ic \&?
to print out help information, including
a list of known symbolic names.
.It Ic dont Ar cmd
Sends the
.Dv TELNET DONT
.Ar cmd
sequence.
.Ar cmd
can be either a decimal number between 0 and 255,
or a symbolic name for a specific
.Dv TELNET
command.
.Ar cmd
can also be either
.Ic help
or
.Ic \&?
to print out help information, including
a list of known symbolic names.
.It Ic will Ar cmd
Sends the
.Dv TELNET WILL
.Ar cmd
sequence.
.Ar cmd
can be either a decimal number between 0 and 255,
or a symbolic name for a specific
.Dv TELNET
command.
.Ar cmd
can also be either

.Ic help
or
.Ic \&?
to print out help information, including
a list of known symbolic names.
.It Ic wont Ar cmd
Sends the
.Dv TELNET WONT
.Ar cmd
sequence.
.Ar cmd
can be either a decimal number between 0 and 255,
or a symbolic name for a specific
.Dv TELNET
command.
.Ar cmd
can also be either
.Ic help
or
.Ic \&?
to print out help information, including
a list of known symbolic names.
.It Ic \&?
Prints out help information for the
.Ic send
command.
.El
.It Ic set Ar argument value
.It Ic unset Ar argument value
The
.Ic set
command will set any one of a number of
.Nm
variables to a specific value or to
.Dv TRUE .
The special value
.Ic off
turns off the function associated with
the variable; this is equivalent to using the
.Ic unset
command.
The
.Ic unset
command will disable or set to
.Dv FALSE
any of the specified functions.
The values of variables may be interrogated with the
.Ic display

command.
The variables which may be set or unset, but not toggled, are
listed here.
In addition, any of the variables for the
.Ic toggle
command may be explicitly set or unset using
the
.Ic set
and
.Ic unset
commands.
.Bl -tag -width escape
.It Ic ayt
If
.Tn TELNET
is in
.Ic localchars
mode, or
.Dv LINEMODE
is enabled, and the status character is typed, a
.Dv TELNET AYT
sequence (see
.Ic send ayt
preceding) is sent to the
remote host.
The initial value for the "Are You There"
character is the terminal's status character.
.It Ic echo
This is the value (initially "^E") which, when in
"line by line" mode, toggles between doing local echoing
of entered characters (for normal processing), and suppressing
echoing of entered characters (for entering, say, a password).
.It Ic eof
If
.Nm
is operating in
.Dv LINEMODE
or "old line by line" mode, entering this character
as the first character on a line will cause this character to be
sent to the remote system.
The initial value of the
.Ic eof
character is taken to be the terminal's
.Ic eof
character.
.It Ic erase
If
.Nm

is in
.Ic localchars
mode (see
.Ic toggle
.Ic localchars
below),
and if
.Nm
is operating in "character at a time" mode, then when this
character is typed, a
.Dv TELNET EC
sequence (see
.Ic send
.Ic ec
above)
is sent to the remote system.
The initial value for the
.Ic erase
character is taken to be
the terminal's
.Ic erase
character.
.It Ic escape
This is the
.Nm
escape character (initially "^[") which causes entry
into
.Nm
command mode (when connected to a remote system).
.It Ic flushoutput
If
.Nm
is in
.Ic localchars
mode (see
.Ic toggle
.Ic localchars
below)
and the
.Ic flushoutput
character is typed, a
.Dv TELNET AO
sequence (see
.Ic send
.Ic ao
above)
is sent to the remote host.
The initial value for the

.Ic flush
character is taken to be
the terminal's
.Ic flush
character.
.It Ic forw1
.It Ic forw2
If
.Tn TELNET
is operating in
.Dv LINEMODE ,
these are the
characters that, when typed, cause partial lines to be
forwarded to the remote system.
The initial value for
the forwarding characters are taken from the terminal's
eol and eol2 characters.
.It Ic interrupt
If
.Nm
is in
.Ic localchars
mode (see
.Ic toggle
.Ic localchars
below)
and the
.Ic interrupt
character is typed, a
.Dv TELNET IP
sequence (see
.Ic send
.Ic ip
above)
is sent to the remote host.
The initial value for the
.Ic interrupt
character is taken to be
the terminal's
.Ic intr
character.
.It Ic kill
If
.Nm
is in
.Ic localchars
mode (see
.Ic toggle

.Ic localchars
below),
and if
.Nm
is operating in "character at a time" mode, then when this
character is typed, a
.Dv TELNET EL
sequence (see
.Ic send
.Ic el
above)
is sent to the remote system.
The initial value for the
.Ic kill
character is taken to be
the terminal's
.Ic kill
character.
.It Ic lnext
If
.Nm
is operating in
.Dv LINEMODE
or "old line by line" mode, then this character is taken to
be the terminal's
.Ic lnext
character.
The initial value for the
.Ic lnext
character is taken to be
the terminal's
.Ic lnext
character.
.It Ic quit
If
.Nm
is in
.Ic localchars
mode (see
.Ic toggle
.Ic localchars
below)
and the
.Ic quit
character is typed, a
.Dv TELNET BRK
sequence (see
.Ic send

.Ic brk
above)
is sent to the remote host.
The initial value for the
.Ic quit
character is taken to be
the terminal's
.Ic quit
character.
.It Ic reprint
If
.Nm
is operating in
.Dv LINEMODE
or old line by line" mode, then this character is taken to
be the terminal's
.Ic reprint
character.
The initial value for the
.Ic reprint
character is taken to be
the terminal's
.Ic reprint
character.
.It Ic rlogin
This is the rlogin escape character.
If set, the normal
.Tn TELNET
escape character is ignored unless it is
preceded by this character at the beginning of a line.
This character, at the beginning of a line, followed by
a "." closes the connection; when followed by a ^Z it
suspends the
.Nm
command.
The initial state is to
disable the
.Ic rlogin
escape character.
.It Ic start
If the
.Dv TELNET TOGGLE-FLOW-CONTROL
option has been enabled,
then this character is taken to
be the terminal's
.Ic start
character.
The initial value for the

.Ic start
character is taken to be
the terminal's
.Ic start
character.
.It Ic stop
If the
.Dv TELNET TOGGLE-FLOW-CONTROL
option has been enabled,
then this character is taken to
be the terminal's
.Ic stop
character.
The initial value for the
.Ic stop
character is taken to be
the terminal's
.Ic stop
character.
.It Ic susp
If
.Nm
is in
.Ic localchars
mode, or
.Dv LINEMODE
is enabled, and the
.Ic suspend
character is typed, a
.Dv TELNET SUSP
sequence (see
.Ic send
.Ic susp
above)
is sent to the remote host.
The initial value for the
.Ic suspend
character is taken to be
the terminal's
.Ic suspend
character.
.It Ic tracefile
This is the file to which the output, caused by
.Ic netdata
or
.Ic option
tracing being
.Dv TRUE ,

will be written.
If it is set to
.Dq Fl ,
then tracing information will be written to standard output (the default).
.It Ic worderase
If
.Nm
is operating in
.Dv LINEMODE
or "old line by line" mode, then this character is taken to
be the terminal's
.Ic worderase
character.
The initial value for the
.Ic worderase
character is taken to be
the terminal's
.Ic worderase
character.
.It Ic \&?
Displays the legal
.Ic set
.Pq Ic unset
commands.
.El
.It Ic skey Ar sequence challenge
The
.Ic skey
command computes a response to the S/Key challenge.
See
.Xr skey 1
for more information on the S/Key system.
.It Ic slc Ar state
The
.Ic slc
command (Set Local Characters) is used to set
or change the state of the special
characters when the
.Dv TELNET LINEMODE
option has
been enabled.
Special characters are characters that get mapped to
.Tn TELNET
commands sequences (like
.Ic ip
or
.Ic quit)
or line editing characters (like

.Ic erase
and
.Ic kill) .
By default, the local special characters are exported.
.Bl -tag -width Fl
.It Ic check
Verify the current settings for the current special characters.
The remote side is requested to send all the current special
character settings, and if there are any discrepancies with
the local side, the local side will switch to the remote value.
.It Ic export
Switch to the local defaults for the special characters.
The local default characters are those of the local terminal at
the time when
.Nm
was started.
.It Ic import
Switch to the remote defaults for the special characters.
The remote default characters are those of the remote system
at the time when the
.Tn TELNET
connection was established.
.It Ic \&?
Prints out help information for the
.Ic slc
command.
.El
.It Ic status
Show the current status of
.Nm telnet .
This includes the peer one is connected to, as well
as the current mode.
.It Ic toggle Ar arguments Op Ar ...
Toggle (between
.Dv TRUE
and
.Dv FALSE)
various flags that control how
.Nm
responds to events.
These flags may be set explicitly to
.Dv TRUE
or
.Dv FALSE
using the
.Ic set
and
.Ic unset

commands listed above.
More than one argument may be specified.
The state of these flags may be interrogated with the
.Ic display
command.
Valid arguments are:
.Bl -tag -width Ar
.It Ic authdebug
Turns on debugging information for the authentication code.
.It Ic autoflush
If
.Ic autoflush
and
.Ic localchars
are both
.Dv TRUE ,
then when the
.Ic ao
or
.Ic quit
characters are recognized (and transformed into
.Tn TELNET
sequences; see
.Ic set
above for details),
.Nm
refuses to display any data on the user's terminal
until the remote system acknowledges (via a
.Dv TELNET TIMING MARK
option)
that it has processed those
.Tn TELNET
sequences.
The initial value for this toggle is
.Dv TRUE
if the terminal user had not
done an "stty noflsh", otherwise
.Dv FALSE
(see
.Xr stty 1) .
.It Ic autodecrypt
When the
.Dv TELNET ENCRYPT
option is negotiated, by
default the actual encryption (decryption) of the data
stream does not start automatically.
The
.Ic autoencrypt

.Pq Ic autodecrypt
command states that encryption of the
output (input) stream should be enabled as soon as
possible.
.Pp
.It Ic autologin
If the remote side supports the
.Dv TELNET AUTHENTICATION
option
.Tn TELNET
attempts to use it to perform automatic authentication.
If the
.Dv AUTHENTICATION
option is not supported, the user's login
name are propagated through the
.Dv TELNET ENVIRON
option.
This command is the same as specifying
.Ar a
option on the
.Ic open
command.
.It Ic autosynch
If
.Ic autosynch
and
.Ic localchars
are both
.Dv TRUE ,
then when either the
.Ic intr
or
.Ic quit
character is typed (see
.Ic set
above for descriptions of the
.Ic intr
and
.Ic quit
characters), the resulting
.Tn TELNET
sequence sent is followed by the
.Dv TELNET SYNCH
sequence.
This procedure
.Em should
cause the remote system to begin throwing away all previously
typed input until both of the

.Tn TELNET
sequences have been read and acted upon.
The initial value of this toggle is
.Dv FALSE .
.It Ic binary
Enable or disable the
.Dv TELNET BINARY
option on both input and output.
.It Ic inbinary
Enable or disable the
.Dv TELNET BINARY
option on input.
.It Ic outbinary
Enable or disable the
.Dv TELNET BINARY
option on output.
.It Ic crlf
If this is
.Dv TRUE ,
then carriage returns will be sent as
.Li <CR><LF> .
If this is
.Dv FALSE ,
then carriage returns will be send as
.Li <CR><NUL> .
The initial value for this toggle is
.Dv FALSE .
.It Ic crmod
Toggle carriage return mode.
When this mode is enabled, most carriage return characters received from
the remote host will be mapped into a carriage return followed by
a line feed.
This mode does not affect those characters typed by the user, only
those received from the remote host.
This mode is not very useful unless the remote host
only sends carriage return, but never line feeds.
The initial value for this toggle is
.Dv FALSE .
.It Ic debug
Toggles socket level debugging (useful only to the superuser).
The initial value for this toggle is
.Dv FALSE .
.It Ic encdebug
Turns on debugging information for the encryption code.
.It Ic localchars
If this is
.Dv TRUE ,
then the

.Ic flush ,
.Ic interrupt ,
.Ic quit ,
.Ic erase ,
and
.Ic kill
characters (see
.Ic set
above) are recognized locally, and transformed into (hopefully) appropriate
.Tn TELNET
control sequences
(respectively
.Ic ao ,
.Ic ip ,
.Ic brk ,
.Ic ec ,
and
.Ic el ;
see
.Ic send
above).
The initial value for this toggle is
.Dv TRUE
in "old line by line" mode,
and
.Dv FALSE
in "character at a time" mode.
When the
.Dv LINEMODE
option is enabled, the value of
.Ic localchars
is ignored, and assumed to always be
.Dv TRUE .
If
.Dv LINEMODE
has ever been enabled, then
.Ic quit
is sent as
.Ic abort ,
and
.Ic eof
and
.Ic suspend
are sent as
.Ic eof
and
.Ic susp
(see

.Ic send
above).
.It Ic netdata
Toggles the display of all network data (in hexadecimal format).
The initial value for this toggle is
.Dv FALSE .
.It Ic options
Toggles the display of some internal
.Nm
protocol processing (having to do with
.Tn TELNET
options).
The initial value for this toggle is
.Dv FALSE .
.It Ic prettydump
When the
.Ic netdata
toggle is enabled, if
.Ic prettydump
is enabled the output from the
.Ic netdata
command will be formatted in a more user readable format.
Spaces are put between each character in the output, and the
beginning of any
.Tn TELNET
escape sequence is preceded by a '*' to aid in locating them.
.It Ic skiprc
When the skiprc toggle is
.Dv TRUE ,
.Tn TELNET
skips the reading of the
.Pa \&.telnetrc
file in the user's home
directory when connections are opened.
The initial value for this toggle is
.Dv FALSE .
.It Ic termdata
Toggles the display of all terminal data (in hexadecimal format).
The initial value for this toggle is
.Dv FALSE .
.It Ic verbose_encrypt
When the
.Ic verbose_encrypt
toggle is
.Dv TRUE ,
.Nm
prints out a message each time encryption is enabled or
disabled.

The initial value for this toggle is
.Dv FALSE .
.It Ic \&?
Displays the legal
.Ic toggle
commands.
.El
.It Ic z
Suspend
.Nm telnet .
This command only works when the user is using the
.Xr csh 1 .
.It Ic \&! Op Ar command
Execute a single command in a subshell on the local
system.
If
.Ar command
is omitted, then an interactive
subshell is invoked.
.It Ic \&? Op Ar command
Get help.
With no arguments,
.Nm
prints a help summary.
If a command is specified,
.Nm
will print the help information for just that command.
.El
.Sh ENVIRONMENT
.Nm
uses at least the
.Ev HOME ,
.Ev SHELL ,
.Ev DISPLAY ,
and
.Ev TERM
environment variables.
Other environment variables may be propagated
to the other side via the
.Dv TELNET ENVIRON
option.
.Sh FILES
.Bl -tag -width ~/.telnetrc -compact
.It Pa ~/.telnetrc
user customized telnet startup values
.El
.Sh HISTORY
The

.Nm
command appeared in
.Bx 4.2 .
.Sh NOTES
On some remote systems, echo has to be turned off manually when in
"old line by line" mode.
.Pp
In "old line by line" mode or
.Dv LINEMODE
the terminal's
.Ic eof
character is only recognized (and sent to the remote system)
when it is the first character on a line.
.Pp
Source routing is not supported yet for IPv6.

2.342 Template-Toolkit 2.22

2.342.1 Available under license :

Template Toolkit

Version 2.22

21st July 2009

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modify it under the same terms as Perl itself.

HACKER'S GUIDE

Please hack on the Template Toolkit. It has been designed to be
extensible and has literally dozens of programmer hooks that you can
tap into to do all sorts of cool things. The object oriented
architecture allows you to create your own subclassed modules to
implement your own services, providers, filters, plugins, and so on.

The Template::Manual::Internals document gives a brief overview of the
architecture. Unfortunately, it's not as complete as it could be,
but the code is well documented and generally easy to follow. Don't
be afraid to use the source, Luke.

The internals document also contains information about preparing and
applying patches, updating the documentation and various other

useful tips.

AUTHOR

The Template Toolkit was written by Andy Wardley <abw@wardley.org>
with the invaluable assistance and contributions from many other
people. See Template::Manual::Credits for details.

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Template Toolkit

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21st July 2009

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QUICK INSTALL

If you have the CPAN module installed then you can install the Template
Toolkit like this from the command line:

```
$ cpan Template
```

Otherwise you can install from source code. The latest version of the Template
Toolkit can be retrieved from:

http://www.cpan.org/modules/by-module/Template/

Fetch and install AppConfig 1.56 if you don't already have it installed.
Available from CPAN in:

http://www.cpan.org/authors/Andy_Wardley/

To install the Template Toolkit from the command line:

```
$ tar zxf Template-Toolkit-2.22.tar.gz
$ cd Template-Toolkit-2.22
$ perl Makefile.PL
$ make
$ make test
$ make install
```

The Makefile.PL will prompt for any additional configuration options.

For further details, see the sections below on CONFIGURATION, BUILDING AND TESTING, and INSTALLATION. The Template Toolkit web site also has further information about installation.

```
http://template-toolkit.org/download/index.html
```

PREREQUISITES

The Template Toolkit is written entirely in Perl and should run on any platform on which Perl is available. It requires Perl 5.006 or later.

The 'ttree' utility uses the AppConfig module (version 1.56 or above) for parsing command line options and configuration files. It is available from CPAN:

```
http://www.cpan.org/authors/Andy_Wardley/
```

The Template Toolkit implements a "plugin" architecture which allow you to incorporate the functionality of virtually any Perl module into your templates. A number of plugin modules are included with the distribution for adding extra functionality or interfacing to external CPAN modules. You don't need to install any of these external modules unless you plan to use those particular plugins. See Template::Plugins and Template::Manual::Plugins for further details.

OBTAINING AND INSTALLING THE TEMPLATE TOOLKIT

The latest release version of the Template Toolkit can be downloaded from any CPAN site:

```
http://www.cpan.org/modules/by-module/Template/
```

Interim and development versions may also be available, along with
other useful information, news, publications, mailing list archives,
etc., from the Template Toolkit web site:

  http://template-toolkit.org/

The Template Toolkit is distributed as a gzipped tar archive file:

  Template-Toolkit-<version>.tar.gz

where <version> represents the current version number, e.g. 2.22.

To install the Template Toolkit, unpack the distribution archive to
create an installation directory. Something like this:

  $ tar zxf Template-Toolkit-2.22.tar.gz
or
  $ gunzip Template-Toolkit-2.22.tar.gz
  $ tar xf Template-Toolkit-2.22.tar

You can then 'cd' into the directory created,

  $ cd Template-Toolkit-2.22

and perform the usual Perl installation procedure:

  $ perl Makefile.PL
  $ make
  $ make test
  $ make install   # may need root access

The Makefile.PL performs various sanity checks and then prompts for a
number of configuration items. The following CONFIGURATION section
covers this in greater detail.

If you choose to install the optional components then you may need to
perform some post-installation steps to ensure that the template
libraries, HTML documentation and examples can be correctly viewed via
your web browser. The INSTALLATION section covers this.

INSTALLING ON MICROSOFT WIN32 PLATFORMS

For advice on using Perl under Microsoft Windows, have a look here:

  http://win32.perl.org/

If you're using Strawberry Perl then you can install the Template Toolkit using the CPAN module as described above.

If you're using ActivePerl then you can install it using the Perl Package Manager (ppm) with the pre-compiled packages built by Chris Winters. For further details, see:

  http://openinteract.sourceforge.net/
  http://activestate.com/

If you prefer, you can manually install the Template Toolkit on Win32 systems by following the instructions in this installation guide. However, please note that you are likely to encounter problems using 'make' and should instead download and use 'nmake' as a replacement. This is available from Microsoft's ftp site.

  ftp://ftp.microsoft.com/Softlib/MSLFILES/nmake15.exe

In this case, you should substitute 'nmake' for 'make' in all the instructions contained herein.

CONFIGURATION

This section covers the configuration of the Template Toolkit via the Makefile.PL program. If you've successfully run this and didn't have any problems answering any of the questions then you probably don't need to read this section.

The Makefile.PL Perl program performs the module configuration and generates the Makefile which can then be used to build, test and install the Template Toolkit.

  $ perl Makefile.PL

The Template Toolkit now boasts a high-speed implementation of Template::Stash written in XS. You can choose to build this as an optional module for using explicitly as an alternative to the regular pure-perl stash module. In additional, you can opt to use the XS Stash as the default, typically making the Template Toolkit run twice as fast!

When prompted, answer 'y' or 'n' to build and optionally use the XS Stash module by default:

  Do you want to build the XS Stash module? [y]
  Do you want to use the XS Stash for all Templates? [n]

BUILDING AND TESTING

This section describes the "make" and "make test" commands which build
and test the Template Toolkit. If you ran these without incident,
then you can probably skip this section.

The 'make' command will build the Template Toolkit modules in the
usual manner.

```
  make
```

The 'make test' command runs the test scripts in the 't' subdirectory.

```
  make test
```

You can set the TEST_VERBOSE flag when running 'make test' to see the
results of the individual tests:

```
  make test TEST_VERBOSE=1
```

INSTALLATION

This section describes the final installation of the Template Toolkit
via the "make install" and covers any additional steps you may need to
take if you opted to build the HTML documentation and/or examples.

The 'make install' will install the modules and scripts on your
system. You may need administrator privileges to perform this task.
Alternately you can can install the Template Toolkit to a local
directory (see ExtUtils::MakeMaker for full details), e.g.

```
  $ perl Makefile.PL PREFIX=/home/abw/
```

Don't forget to update your PERL5LIB environment variable if you do
this, or add a line to your script to tell Perl where to find the files,
e.g.

```
  use lib qw( /home/abw/lib/perl5/site_perl/5.10.0 );
```

AUTHOR

The Template Toolkit was written by Andy Wardley <abw@wardley.org> with

the invaluable assistance and contributions from many other people.
See Template::Manual::Credits for details.

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the same terms as Perl itself.

```
--- #YAML:1.0
name:               Template-Toolkit
version:            2.22
abstract:           comprehensive template processing system
author:
  - Andy Wardley <abw@wardley.org>
license:            perl
distribution_type:  module
configure_requires:
  ExtUtils::MakeMaker:  0
requires:
  AppConfig:     1.56
  File::Spec:    0.8
  File::Temp:    0.12
  Scalar::Util:  0
no_index:
  directory:
    - t
    - inc
generated_by:       ExtUtils::MakeMaker version 6.48
meta-spec:
  url:      http://module-build.sourceforge.net/META-spec-v1.4.html
  version:  1.4
```

Template Toolkit

Version 2.22

21st July 2009

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modify it under the same terms as Perl itself.

INSTALLATION

If you have the CPAN module installed then you can install the Template Toolkit from the command line like so:

```
$ cpan Template
```

Please see the separate INSTALL file for further information on installing the Template Toolkit, including what to do if you don't have the CPAN module installed, and/or installation on MS Windows.

DESCRIPTION

The Template Toolkit is a collection of modules which implement a fast, flexible, powerful and extensible template processing system. It was originally designed and remains primarily useful for generating dynamic web content, but it can be used equally well for processing any other kind of text based documents: HTML, XML, POD, PostScript, LaTeX, and so on.

It can be used as a stand-alone Perl module or embedded within an Apache/mod_perl server for generating highly configurable dynamic web content. A number of Perl scripts are also provided which can greatly simplify the process of creating and managing static web content and other offline document systems.

WHAT'S NEW?

Version 2.22 is mostly a bug fixing release. The XS Stash now works with utf8 data. Tests that were failing on Win32 platforms have been fixed. Pod coverage and quality tests have been disabled except for release testing. The Autoformat plugin has been moved into a separate distribution.

Version 2.21 featured a complete clean-out of all the old HTML documentation, examples, libraries and other cruft that was way out of date and badly unloved. A new version of the HTML documentation is available for download from http://tt2.org/download/index.html#html_docs. v2.21 also fixes a memory leak in the XS Stash.

Version 2.21 also adds the STRICT option which reports the use of undefined variable values. The ANYCASE option has been improved so that you can write things like 'data.last' without the 'last' bit being interpreted as the LAST keyword. The xml filter is also new, providing a slightly more rigourous

version of the html filter for use in XML documents.

Version 2.20 fixed all known bugs. It also added the Scalar and Assert plugins. The HTML documentation, examples, libraries and other bits and pieces are still provided with the distribution, but are no longer installed by the Makefile.PL. If you want them (and very few people do, it seems), then you'll need to dig them out of the distribution by yourself (or uncomment the commented-out lines in Makefile.PL that handle the installation). This has been done in an effort to simplify the installation process. All of the HTML documentation is available online at http://tt2.org/

Version 2.19 fixed some minor bugs in both Perl and XS versions of the Template Stash, and fixed a problem with a test in the test suite failing under Win32. It also added the url filter as a version of what the uri filter used to do before we fixed it to do the right thing.

Version 2.18 fixes a number of minor bugs. It also includes a modification to the parser grammar so that you can write expressions as arguments to subroutine, method or vmethod calls.

Versions 2.17 and 2.16 were interim releases by Adam Kennedy who took care of some installation problems on Mac OSX while Andy was busy elsewhere.

Version 2.15 is a major maintenance release. It applies all outstanding patches and closes all open bugs listed on http://rt.cpan.org/ It includes:

* XS Stash: enhancements include support for tied hashes/arrays and "fallback" methods on objects (e.g. accessing hash and list items and calling virtual methods)

* Virtual Methods: added the scalar.remove, scalar.substr, hash.delete, hash.items, hash.pairs, list.import and list.hash virtual methods. Added support for backreferences to scalar.replace and other improvements to list.push, list.unshift, list.hash, hash.list

* Plugins: Added Math plugin, Bug fixes and enhancements to File, Image, URL and String plugins. Moved DBI, XML and GD plugins into separate distributions.

* Numerous other bug fixes, enhancements, documentation updates, all described in detail in the Changes file.

More significant is what's not in version 2.15. The DBI plugin has been moved into a separate Template-DBI distribution, the GD plugins into Template-GD, the XML plugins into Template-XML, and the Latex filters into Template-Latex. This has been done in an effort to make

the Template Toolkit core distribution smaller, cleaner and easier to configure and install.

Version 2.14 added Unicode support to TT, a full set of command line options for tpage, the 'caller' and 'callers' items to each template component, some enhancements to the XML::Simple plugin, and a number of minor bug fixes.

See the Changes file for further details of the changes in these and earlier releases.

GENERAL FEATURES

Some of the key features of the Template Toolkit are listed below. See the documentation for further detail.

* simple but powerful template language

* promotes a clear separation between application functionality and presentation elements

* variable substitution allows binding to any Perl data types (scalars, hashes, lists, subs, objects)

* conditional blocks (IF/UNLESS/ELSIF/ELSE, SWITCH/CASE)

* loops and iterators (FOREACH, WHILE)

* file/template inclusion (INSERT, INCLUDE, PROCESS, WRAPPER)

* definition of local template components (BLOCK)

* post-processing filters (FILTER)

* plugin module architecture for easy extensibility (USE)

* embedded Perl can be optionally enabled (PERL/RAWPERL)

* full exception handling (TRY/THROW/CATCH/FINAL)

* user-defined macros (MACRO)

* definition of template metadata (META)

* virtual methods for complex data types (e.g. list.size, hash.keys, etc.)

* numerous configuration options

* modular OO architecture allows extensive customisation

* fast LALR(1) parser modules compiles templates according to a
  YACC-like grammar.

* templates compiled to Perl code for efficient runtime execution

* in-memory and on-disk caching of compiled templates

* simple front end module (Template.pm) for ease of use

* numerous plugin modules: CGI, DBI, XML, URL, Date, Table, etc

* standard filters for html, case folding, regex search and replace, etc.

DOCUMENTATION

The Template Toolkit is provided with enough documentation to keep all
but the most voracious reader happy for quite some time.

The 'Changes' file in the distribution directory documents all visible
changes between versions of the Template Toolkit. See the section
'VERSION COMPATABILITY' below for further details.

The 'TODO' file, also in the distribution directory, lists known bugs,
planned enhancements and possible new features for future versions.

The 'INSTALL' file covers the configuration and installation process.

The rest of the documentation is distributed in Pod format. The Pod pages
are installed when you 'make install' and can be viewed using 'perldoc',
e.g.

  perldoc Template

If you're using a Unix based system then the pages should also be
converted to manpages suring the 'make install'. Thus, you can also:

  man Template

(the man pages shouldn't have any problems relating to older versions)

The documentation is also available in HTML format at the TT web site:

http://tt2.org/docs/

The documentation is now split into several sections. The 'Template' page is now much shorter, containing information relating to the specifics of using the Template module, and a brief summary of everything else. Information relating more generally to the Template Toolkit, features, syntax of the template language, plugins and so forth, has been split up into a number of Template::Manual::* pages. Template::Manual provides the index for the manual.

```
perldoc Template::Manual
```

Individual sections can be viewed as, for example,

```
perldoc Template::Manual::Syntax
perldoc Template::Manual::Directives
perldoc Template::Manual::Plugins
```

The Template::Tutorial provides an index to the tutorial documents. There are currently 2 tutorials, on generating web content, and on creating and using data files.

```
perldoc Template::Tutorial
perldoc Template::Tutorial::Web
perldoc Template::Tutorial::Datafile
```

Each of the various modules that comprise the Template Toolkit has its own associated documention. The 'Template::Modules' manpage lists these modules along with a brief description of their functions.

```
perldoc Template::Modules
```

See the individual pages for further detail:

```
perldoc Template::Context
perldoc Template::Parser
perldoc Template::Provider
```

If you're interested in the internals of the Template Toolkit and want to know more about how it all works, then you might like to have a look at the following:

```
perldoc Template::Manual::Internals
```

This document also contains important information for people wishing to hack on the Template Toolkit.

The final bit of good news is that there is now a FAQ for the Template

Toolkit.

  perldoc Template::FAQ

It's now got a few question in it, and better still, some answers!
Further contributions welcome.

Most of the documentation is stable and reliable. Where it's not then
it's usually marked as such. In particular, the documentation for the
internals (Template::Manual::Internals) and FAQ (Template::FAQ) are
perpetually under construction.

SUPPORT

The Template Toolkit mailing list provides a forum for discussing
issues relating to the use and abuse of the Template Toolkit. There
are a number of knowledgeable and helpful individuals who frequent the
list (including the author) who can often offer help or suggestions.
Please respect their time and patience by checking the documentation
and/or mailing list archives before asking questions that may already
have been answered.

To subscribe to the mailing list, send an email to:

  templates-request@template-toolkit.org

with the message 'subscribe' in the body. You can also use the web
interface to subscribe or browse the archives:

  http://mail.template-toolkit.org/mailman/listinfo/templates

A low-volume, moderated mailing list exists for announcements about new
releases of the Template Toolkit and related products. To subscribe, send
an email to:

  templates-announce-request@template-toolkit.org

with the message 'subscribe' in the body. A web interface also exists
for subscription and browsing the archives:

  http://mail.template-toolkit.org/mailman/listinfo/templates-announce

For information about commercial support and consultancy for the Template
Toolkit, please contact the author.

AUTHOR

The Template Toolkit was written by Andy Wardley <abw@wardley.org> with
the invaluable assistance and contributions from many other people.
See Template::Manual::Credits for details.

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The "Artistic License"

Preamble

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.343 termcap-compat 1.2.3

2.343.1 Available under license :

This is the Debian GNU/Linux termcap-compat package,

This package was put together by Christian Hudon
<chrish@debian.org> by combining the following packages:

ftp://sunsite.unc.edu/pub/Linux/GCC/termcap-2.0.8.tar.gz
 (for the libtermcap.so shared library)
http://www.ccil.org/~esr/terminfo/termtypes.tc.gz
 (for the termcap database file, more information available
  on http://www.ccil.org/~esr/ncurses.html)

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As for the ncurses termcap database... (quoting from the termcap file itself)

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#
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#
Some information has been merged in from a terminfo file SCO distributes.
It has an obnoxious boilerplate copyright which I'm ignoring because they
took so much of the content from the ancestral BSD versions of this file
and didn't attribute it, thereby violating the BSD Regents' copyright.
#
Not that anyone should care. However many valid functions copyrights may
serve, putting one on a termcap/terminfo file with hundreds of anonymous
contributors makes about as much sense as copyrighting a wall-full of
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2.344 Test-Assertions 1.054

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2.345 Test-Deep 0.11

2.345.1 Available under license :

```
---
abstract: unknown
author:
 - 'Fergal Daly <fergal@esatclear.ie>'
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'
license: unknown
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Test-Deep
no_index:
 directory:
   - t
   - inc
requires:
 List::Util: 1.09
 Scalar::Util: 1.09
 Test::More: 0
 Test::NoWarnings: 0.02
 Test::Tester: 0.04
version: 0.110
from Deep.pm


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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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2.346 Test-Fatal 0.0080

2.346.1 Available under license :

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<signature of Ty Coon>, 1 April 1989
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2.347 Test-NoWarnings 1.04

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library `Frob' (a library for tweaking knobs) written by James
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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2.348 Test-Simple 0.98

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```
--- #YAML:1.0
name:               Test-Simple
version:            0.98
abstract:           Basic utilities for writing tests.
author:
  - Michael G Schwern <schwern@pobox.com>
license:            perl
distribution_type:  module
configure_requires:
  ExtUtils::MakeMaker:  0
build_requires:
  ExtUtils::MakeMaker:  0
requires:
  perl:          5.006
  Test::Harness:  2.03
resources:
  bugtracker:   http://github.com/schwern/test-more/issues
  homepage:     http://test-more.googlecode.com
  license:      http://dev.perl.org/licenses/
  MailingList:  http://groups.google.com/group/test-more-users
```

repository: http://github.com/schwern/test-more/tree/master
no_index:
directory:
- t
- inc
generated_by: ExtUtils::MakeMaker version 6.57_06
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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2.349 Test-Tester 0.108

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The End

NAME

Test::Tester - Ease testing test modules built with Test::Builder

SYNOPSIS

```
use Test::Tester tests => 6;

use Test::MyStyle;

check_test(
  sub {
    is_mystyle_eq("this", "that", "not eq");
  },
  {
```

```
    ok => 0, # expect this to fail
    name => "not eq",
    diag => "Expected: 'this'\nGot: 'that'",
   }
  );
```

or

```
  use Test::Tester;

  use Test::More tests => 3;
  use Test::MyStyle;

  my ($premature, @results) = run_tests(
    sub {
     is_database_alive("dbname");
    }
  );

  # now use Test::More::like to check the diagnostic output

  like($results[0]->{diag}, "/^Database ping took \\d+ seconds$"/, "diag");
```

DESCRIPTION

If you have written a test module based on Test::Builder then Test::Tester allows you to test it with the minimum of effort.

HOW TO USE (THE EASY WAY)

From version 0.08 Test::Tester no longer requires you to included anything special in your test modules. All you need to do is

```
  use Test::Tester;
```

in your test script before any other Test::Builder based modules and away you go.

Other modules based on Test::Builder can be used to help with the testing. In fact you can even use functions from your module to test other functions from the same module (while this is possible it is probably not a good idea, if your module has bugs, then using it to test itself may give the wrong answers).

The easiest way to test is to do something like

```
  check_test(
    sub { is_mystyle_eq("this", "that", "not eq") },
    {
      ok => 0, # we expect the test to fail
```

```
    name => "not eq",
    diag => "Expected: 'this'\nGot: 'that'",
   }
 );
```

this will execute the is_mystyle_eq test, capturing it's results and checking that they are what was expected.

You may need to examine the test results in a more flexible way, for example, the diagnostic output may be quite long or complex or it may involve something that you cannot predict in advance like a timestamp. In this case you can get direct access to the test results:

```
 my ($premature, @results) = run_tests(
  sub {
   is_database_alive("dbname");
  }
 );

 like($result[0]->{diag}, "/^Database ping took \\d+ seconds$"/, "diag");
```

We cannot predict how long the database ping will take so we use Test::More's like() test to check that the diagnostic string is of the right form.

HOW TO USE (THE HARD WAY)

This is here for backwards compatibility only

Make your module use the Test::Tester::Capture object instead of the Test::Builder one. How to do this depends on your module but assuming that your module holds the Test::Builder object in $Test and that all your test routines access it through $Test then providing a function something like this

```
 sub set_builder
 {
  $Test = shift;
 }
```

should allow your test scripts to do

```
 Test::YourModule::set_builder(Test::Tester->capture);
```

and after that any tests inside your module will captured.

TEST RESULTS

The result of each test is captured in a hash. These hashes are the same as the hashes returned by Test::Builder->details but with a couple of extra

fields.

These fields are documented in Test::Builder in the details() function

ok
  Did the test pass?

actual_ok
  Did the test really pass? That is, did the pass come from
  Test::Builder->ok() or did it pass because it was a TODO test?

name
  The name supplied for the test.

type
  What kind of test? Possibilities include, skip, todo etc. See
  Test::Builder for more details.

reason
  The reason for the skip, todo etc. See Test::Builder for more details.

These fields are exclusive to Test::Tester.

diag
  Any diagnostics that were output for the test. This only includes
  diagnostics output after the test result is declared.

  Note that Test::Builder ensures that any diagnostics end in a \n and it in
  earlier versions of Test::Tester it was essential that you have the final
  \n in your expected diagnostics. From version 0.10 onwards, Test::Tester
  will add the \n if you forgot it. It will not add a \n if you are
  expecting no diagnostics. See below for help tracking down hard to find
  space and tab related problems.

depth
  This allows you to check that your test module is setting the correct
  value for $Test::Builder::Level and thus giving the correct file and line
  number when a test fails. It is calculated by looking at caller() and
  $Test::Builder::Level. It should count how many subroutines there are
  before jumping into the function you are testing. So for example in

    run_tests(sub { my_test_function("a", "b") });

  the depth should be 1 and in

    sub deeper { my_test_function("a", "b") }

    run_tests(sub { deeper() });

depth should be 2, that is 1 for the sub {} and one for deeper(). This might seem a little complex but if your tests look like the simple examples in this doc then you don't need to worry as the depth will always be 1 and that's what Test::Tester expects by default.

Note: if you do not specify a value for depth in check_test() then it automatically compares it against 1, if you really want to skip the depth test then pass in undef.

Note: depth will not be correctly calculated for tests that run from a signal handler or an END block or anywhere else that hides the call stack.

Some of Test::Tester's functions return arrays of these hashes, just like Test::Builder->details. That is, the hash for the first test will be array element 1 (not 0). Element 0 will not be a hash it will be a string which contains any diagnostic output that came before the first test. This should usually be empty, if it's not, it means something output diagnostics before any test results showed up.

SPACES AND TABS

Appearances can be deceptive, especially when it comes to emptiness. If you are scratching your head trying to work out why Test::Tester is saying that your diagnostics are wrong when they look perfectly right then the answer is probably whitespace. From version 0.10 on, Test::Tester surrounds the expected and got diag values with single quotes to make it easier to spot trailing whitesapce. So in this example

```
# Got diag (5 bytes):
# 'abcd '
# Expected diag (4 bytes):
# 'abcd'
```

it is quite clear that there is a space at the end of the first string.
Another way to solve this problem is to use colour and inverse video on an ANSI terminal, see below COLOUR below if you want this.

Unfortunately this is sometimes not enough, neither colour nor quotes will help you with problems involving tabs, other non-printing characters and certain kinds of problems inherent in Unicode. To deal with this, you can switch Test::Tester into a mode whereby all "tricky" characters are shown as \{xx}. Tricky characters are those with ASCII code less than 33 or higher than 126. This makes the output more difficult to read but much easier to find subtle differences between strings. To turn on this mode either call show_space() in your test script or set the TESTTESTERSPACE environment variable to be a true value. The example above would then look like

```
# Got diag (5 bytes):
```

```
  # abcd\x{20}
  # Expected diag (4 bytes):
  # abcd
```

COLOUR

If you prefer to use colour as a means of finding tricky whitespace characters then you can set the TESTTESTCOLOUR environment variable to a comma separated pair of colours, the first for the foreground, the second for the background. For example "white,red" will print white text on a red background. This requires the Term::ANSIColor module. You can specify any colour that would be acceptable to the Term::ANSIColor::color function.

If you spell colour differently, that's no problem. The TESTTESTERCOLOR variable also works (if both are set then the British spelling wins out).

EXPORTED FUNCTIONS

```
($premature, @results) = run_tests(\&test_sub)
```

\&test_sub is a reference to a subroutine.

run_tests runs the subroutine in $test_sub and captures the results of any tests inside it. You can run more than 1 test inside this subroutine if you like.

$premature is a string containing any diagnostic output from before the first test.

@results is an array of test result hashes.

```
cmp_result(\%result, \%expect, $name)
```

\%result is a ref to a test result hash.

\%expect is a ref to a hash of expected values for the test result.

cmp_result compares the result with the expected values. If any differences are found it outputs diagnostics. You may leave out any field from the expected result and cmp_result will not do the comparison of that field.

```
cmp_results(\@results, \@expects, $name)
```

\@results is a ref to an array of test results.

\@expects is a ref to an array of hash refs.

cmp_results checks that the results match the expected results and if any differences are found it outputs diagnostics. It first checks that the number of elements in \@results and \@expects is the same. Then it goes through each result checking it against the expected result as in cmp_result() above.

($premature, @results) = check_tests(\&test_sub, \@expects, $name)
\&test_sub is a reference to a subroutine.

\@expect is a ref to an array of hash refs which are expected test results.

check_tests combines run_tests and cmp_tests into a single call. It also checks if the tests died at any stage.

It returns the same values as run_tests, so you can further examine the test results if you need to.

($premature, @results) = check_test(\&test_sub, \%expect, $name)
\&test_sub is a reference to a subroutine.

\%expect is a ref to an hash of expected values for the test result.

check_test is a wrapper around check_tests. It combines run_tests and cmp_tests into a single call, checking if the test died. It assumes that only a single test is run inside \&test_sub and include a test to make sure this is true.

It returns the same values as run_tests, so you can further examine the test results if you need to.

show_space()
Turn on the escaping of characters as described in the SPACES AND TABS section.

HOW IT WORKS

Normally, a test module (let's call it Test:MyStyle) calls Test::Builder->new to get the Test::Builder object. Test::MyStyle calls methods on this object to record information about test results. When Test::Tester is loaded, it replaces Test::Builder's new() method with one which returns a Test::Tester::Delegate object. Most of the time this object behaves as the real Test::Builder object. Any methods that are called are delegated to the real Test::Builder object so everything works perfectly. However once we go into test mode, the method calls are no longer passed to the real Test::Builder object, instead they go to the Test::Tester::Capture object. This object seems exactly like the real Test::Builder object, except, instead of outputting test results and diagnostics, it just records all the information for later analysis.

SEE ALSO

Test::Builder the source of testing goodness. Test::Builder::Tester for an alternative approach to the problem tackled by Test::Tester - captures the strings output by Test::Builder. This means you cannot get separate access to the individual pieces of information and you must predict exactly what your test will output.

AUTHOR

This module is copyright 2005 Fergal Daly <fergal@esatclear.ie>, some parts are based on other people's work.

Plan handling lifted from Test::More. written by Michael G Schwern <schwern@pobox.com>.

Test::Tester::Capture is a cut down and hacked up version of Test::Builder. Test::Builder was written by chromatic <chromatic@wgz.org> and Michael G Schwern <schwern@pobox.com>.

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<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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2.351 Text-CSV 1.16

2.351.1 Available under license :

```
--- #YAML:1.0
name:               Text-CSV
version:            1.16
abstract:           comma-separated values manipulator (using XS or PurePerl)
author:
  - Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>
license:            perl
distribution_type:  module
configure_requires:
  ExtUtils::MakeMaker:  0
requires:
  IO::Handle:     0
  Test::Harness:  0
  Test::More:     0
no_index:
  directory:
    - t
    - inc
generated_by:       ExtUtils::MakeMaker version 6.48
```

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
Text::CSV version 1.16
==========

comma-separated values manipulator

INSTALLATION

To install this module type the following:

 perl Makefile.PL
 make
 make test
 make install

DEPENDENCIES

Test::More

DESCRIPTION

Text::CSV provides facilities for the composition and decomposition of comma-separated values. An instance of the Text::CSV class can combine fields into a CSV string and parse a CSV string into fields.

The module accepts either strings or files as input and can utilize any user-specified characters as delimiters, separators, and escapes so it is perhaps better called ASV (anything separated values) rather than just CSV.

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

2.352 Text-Glob 0.09

2.352.1 Available under license :

---
abstract: 'match globbing patterns against text'
author:
 - 'Richard Clamp <richardc@unixbeard.net>'
build_requires:
 Test::More: 0
configure_requires:
 Module::Build: 0.36
generated_by: 'Module::Build version 0.3603'
license: perl

meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Text-Glob
provides:
 Text::Glob:
   file: lib/Text/Glob.pm
   version: 0.09
resources:
 license: http://dev.perl.org/licenses/
version: 0.09
From Glob.pm
================

=head1 AUTHOR

Richard Clamp <richardc@unixbeard.net>

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=head1 SEE ALSO

L<File::Glob>, glob(3)

=cut
Freom META.yml

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abstract: 'match globbing patterns against text'
author:
 - 'Richard Clamp <richardc@unixbeard.net>'
build_requires:
 Test::More: 0
configure_requires:
 Module::Build: 0.36
generated_by: 'Module::Build version 0.3603'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html

version: 1.4
name: Text-Glob
provides:
Text::Glob:
file: lib/Text/Glob.pm
version: 0.09
resources:
license: http://dev.perl.org/licenses/
version: 0.09
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This is free software, and you are welcome to redistribute it
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<signature of Ty Coon>, 1 April 1989
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2.353 Text-Markdown 1.000031

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2.355 Text-Unidecode 0.04

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2.356 tftp-hpa 0.29

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From tftp/main.c

/* $OpenBSD: main.c,v 1.4 1997/01/17 07:13:30 millert Exp $ */
/* $NetBSD: main.c,v 1.6 1995/05/21 16:54:10 mycroft Exp $ */

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<snip>

2.357 threadpool 0_2_5

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2.358 Tie-EncryptedHash 1.24

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```
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##
## Tie::EncryptedHash - A tied hash with encrypted fields.
##
## Copyright (c) 2000, Vipul Ved Prakash.  All rights reserved.
## This code is based on Damian Conway's Tie::SecureHash.
##
## $Id: EncryptedHash.pm,v 1.8 2000/09/02 19:23:00 vipul Exp vipul $
## vi:expandtab=1;ts=4;

package Tie::EncryptedHash;
snip...

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at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
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That's all there is to it!

2.359 time 1.7

2.359.1 Available under license :

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2.361 Time-Out 0.11

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2.362 TimeDate 1.2

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```
--- #YAML:1.0
name:           TimeDate
version:        1.20
abstract:       ~
author:
  - Graham Barr <gbarr@pobox.com>
```

```
license:            perl
distribution_type:  module
configure_requires:
  ExtUtils::MakeMaker:  0
requires:  {}
resources:
  repository:  http://github.com/gbarr/perl-TimeDate
no_index:
  directory:
    - t
    - inc
generated_by:       ExtUtils::MakeMaker version 6.48
meta-spec:
  url:      http://module-build.sourceforge.net/META-spec-v1.4.html
  version:  1.4
```

This is the perl5 TimeDate distribution. It requires perl version 5.003
or later

This distribution replaces my earlier GetDate distribution, which was
only a date parser. The date parser contained in this distribution is
far superior to the yacc based parser, and a *lot* fatser.

The parser contained here will only parse absolute dates, if you want a
date parser that can parse relative dates then take a look at the Time
modules by David Muir on CPAN.

You install the library by running these commands:

```
 perl Makefile.PL
 make
 make test
 make install
```

Please report any bugs/suggestions to <gbarr@pobox.com>

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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2.363 tomcat-connectors 1.2.40

2.363.1 Available under license :

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PCRE is a library of functions to support regular expressions whose syntax
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Written by: Philip Hazel <ph10@cam.ac.uk>

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!IFDEF APACHE20_HOME
APR_LIB=libapr.lib
APU_LIB=libaprutil.lib
OUTDIR=.\Release20
INTDIR=.\Release20
APACHE2_HOME=$(APACHE20_HOME)
!ELSE
!IFDEF APACHE24_HOME
APACHE2_HOME=$(APACHE24_HOME)
OUTDIR=.\Release24
INTDIR=.\Release24
!ELSE
!IFDEF APACHE22_HOME
APACHE2_HOME=$(APACHE22_HOME)
OUTDIR=.\Release22
INTDIR=.\Release22
!ENDIF
!ENDIF
APR_LIB=libapr-1.lib
APU_LIB=libaprutil-1.lib
!ENDIF
!IFNDEF APACHE2_HOME
!ERROR Missing APACHE2_HOME environment variable.
!ENDIF

TARGET=mod_jk$(SO_VERSION)$(SO_HTTPD_VERSION)
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe
ARCH=X86

ALL : "$(OUTDIR)\$(TARGET).so"
```

```
CLEAN :
 -@erase "$(INTDIR)\jk.res"
 -@erase "$(INTDIR)\jk_ajp12_worker.obj"
 -@erase "$(INTDIR)\jk_ajp13.obj"
 -@erase "$(INTDIR)\jk_ajp13_worker.obj"
 -@erase "$(INTDIR)\jk_ajp14.obj"
 -@erase "$(INTDIR)\jk_ajp14_worker.obj"
 -@erase "$(INTDIR)\jk_ajp_common.obj"
 -@erase "$(INTDIR)\jk_connect.obj"
 -@erase "$(INTDIR)\jk_context.obj"
 -@erase "$(INTDIR)\jk_lb_worker.obj"
 -@erase "$(INTDIR)\jk_map.obj"
 -@erase "$(INTDIR)\jk_md5.obj"
 -@erase "$(INTDIR)\jk_msg_buff.obj"
 -@erase "$(INTDIR)\jk_pool.obj"
 -@erase "$(INTDIR)\jk_shm.obj"
 -@erase "$(INTDIR)\jk_sockbuf.obj"
 -@erase "$(INTDIR)\jk_status.obj"
 -@erase "$(INTDIR)\jk_uri_worker_map.obj"
 -@erase "$(INTDIR)\jk_url.obj"
 -@erase "$(INTDIR)\jk_util.obj"
 -@erase "$(INTDIR)\jk_worker.obj"
 -@erase "$(INTDIR)\mod_jk.obj"
 -@erase "$(INTDIR)\mod_jk_src.idb"
 -@erase "$(INTDIR)\mod_jk_src.pdb"
 -@erase "$(OUTDIR)\mod_jk.exp"
 -@erase "$(OUTDIR)\mod_jk.lib"
 -@erase "$(OUTDIR)\$(TARGET).pdb"
 -@erase "$(OUTDIR)\$(TARGET).so"

"$(OUTDIR)" :
   if not exist "$(OUTDIR)/$(NULL)" mkdir "$(OUTDIR)"

BSC32=bscmake.exe
BSC32_FLAGS=/nologo /o"$(OUTDIR)\$(TARGET).bsc"
BSC32_SBRS= \

LINK32=link.exe
LINK32_FLAGS=libhttpd.lib $(APR_LIB) $(APU_LIB) kernel32.lib user32.lib advapi32.lib mswsock.lib
ws2_32.lib $(EXTRA_LIBS) /nologo /base:"0x6A6B0000" /subsystem:windows /dll /incremental:no
/pdb:"$(OUTDIR)\$(TARGET).pdb" /debug /machine:$(ARCH) /out:"$(OUTDIR)\$(TARGET).so"
/implib:"$(OUTDIR)\mod_jk.lib" /libpath:"$(APACHE2_HOME)\lib" /opt:ref
LINK32_OBJS= \
 "$(INTDIR)\jk_ajp12_worker.obj" \
 "$(INTDIR)\jk_ajp13.obj" \
 "$(INTDIR)\jk_ajp13_worker.obj" \
 "$(INTDIR)\jk_ajp14.obj" \
```

```
 "$(INTDIR)\jk_ajp14_worker.obj" \
 "$(INTDIR)\jk_ajp_common.obj" \
 "$(INTDIR)\jk_connect.obj" \
 "$(INTDIR)\jk_context.obj" \
 "$(INTDIR)\jk_lb_worker.obj" \
 "$(INTDIR)\jk_map.obj" \
 "$(INTDIR)\jk_md5.obj" \
 "$(INTDIR)\jk_msg_buff.obj" \
 "$(INTDIR)\jk_pool.obj" \
 "$(INTDIR)\jk_shm.obj" \
 "$(INTDIR)\jk_sockbuf.obj" \
 "$(INTDIR)\jk_status.obj" \
 "$(INTDIR)\jk_uri_worker_map.obj" \
 "$(INTDIR)\jk_url.obj" \
 "$(INTDIR)\jk_util.obj" \
 "$(INTDIR)\jk_worker.obj" \
 "$(INTDIR)\jk.res" \
 "$(INTDIR)\mod_jk.obj"

"$(OUTDIR)\$(TARGET).so" : "$(OUTDIR)" $(DEF_FILE) $(LINK32_OBJS)
   $(LINK32) @<<
 $(LINK32_FLAGS) $(LINK32_OBJS)
<<
 @IF EXIST $(OUTDIR)\$(TARGET).manifest \
  mt -nologo -manifest $(OUTDIR)\$(TARGET).manifest -outputresource:$(OUTDIR)\$(TARGET).so;2


CPP_PROJ=-nologo -MD -W3 -O2 -Ob2 -Oy- -Zi -EHsc /I "..\common" /I "$(APACHE2_HOME)\include" /D
"NDEBUG" /D "WIN32" /D "_WINDOWS" $(CFLAGS) /Fo"$(INTDIR)\\" /Fd"$(INTDIR)\mod_jk_src" /FD /c

.c{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.c{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
```

```
<<

.cpp{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

MTL_PROJ=/nologo /D "NDEBUG" /mktyplib203 /win32
RSC_PROJ=/l 0x409 /fo"$(INTDIR)\jk.res" /i "..\common" /d BASENAME="mod_jk" /d "NDEBUG"

SOURCE=..\common\jk.rc

"$(INTDIR)\jk.res" : $(SOURCE) "$(INTDIR)"
  $(RSC) $(RSC_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp12_worker.c

"$(INTDIR)\jk_ajp12_worker.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp13.c

"$(INTDIR)\jk_ajp13.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp13_worker.c

"$(INTDIR)\jk_ajp13_worker.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp14.c

"$(INTDIR)\jk_ajp14.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp14_worker.c

"$(INTDIR)\jk_ajp14_worker.obj" : $(SOURCE) "$(INTDIR)"
```

```
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp_common.c

"$(INTDIR)\jk_ajp_common.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_connect.c

"$(INTDIR)\jk_connect.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_context.c

"$(INTDIR)\jk_context.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_lb_worker.c

"$(INTDIR)\jk_lb_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_map.c

"$(INTDIR)\jk_map.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_md5.c

"$(INTDIR)\jk_md5.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_msg_buff.c

"$(INTDIR)\jk_msg_buff.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_pool.c

"$(INTDIR)\jk_pool.obj" : $(SOURCE) "$(INTDIR)"
```

```
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_shm.c

"$(INTDIR)\jk_shm.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_sockbuf.c

"$(INTDIR)\jk_sockbuf.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_status.c

"$(INTDIR)\jk_status.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_uri_worker_map.c

"$(INTDIR)\jk_uri_worker_map.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_url.c

"$(INTDIR)\jk_url.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_util.c

"$(INTDIR)\jk_util.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_worker.c

"$(INTDIR)\jk_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=.\mod_jk.c

"$(INTDIR)\mod_jk.obj" : $(SOURCE) "$(INTDIR)"
```

```
 $(CPP) $(CPP_PROJ) $(SOURCE)
#
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# contributor license agreements.  See the NOTICE file distributed with
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# limitations under the License.
#

#
# NetWare Makefile for mod_jk (uses build system of Apache 2.x - gnu make)
# created by Guenter Knauf <fuankg@apache.org>
#

#
# Declare the sub-directories to be built here
#

SUBDIRS = \
 $(EOLIST)

#
# Get the 'head' of the build environment.  This includes default targets and
# paths to tools
#

include $(AP_WORK)/build/NWGNUhead.inc

#
# build this level's files

#
# Make sure all needed macro's are defined
#

JKCOMMON = ../common

#
# These directories will be at the beginning of the include list, followed by
```

```
# INCDIRS
#
XINCDIRS += \
  $(JKCOMMON) \
  $(APR)/include \
  $(APRUTIL)/include \
  $(AP_WORK)/include \
  $(NWOS) \
  $(EOLIST)

#
# These flags will come after CFLAGS
#
XCFLAGS  += \
  $(EOLIST)

#
# These defines will come after DEFINES
#
XDEFINES += \
  -D__NOVELL_LIBC__ \
  -D_POSIX_SOURCE \
  $(EOLIST)

#
# These flags will be added to the link.opt file
#
XLFLAGS  += \
  $(EOLIST)

#
# These values will be appended to the correct variables based on the value of
# RELEASE
#
ifeq "$(RELEASE)" "debug"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif
```

```
ifeq "$(RELEASE)" "noopt"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

ifeq "$(RELEASE)" "release"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

#
# These are used by the link target if an NLM is being generated
# This is used by the link 'name' directive to name the nlm.  If left blank
# TARGET_nlm (see below) will be used.
#
NLM_NAME = mod_jk

#
# This is used by the link '-desc ' directive.
# If left blank, NLM_NAME will be used.
#
NLM_DESCRIPTION = Apache $(VERSION_STR) plugin for Tomcat $(JK_VERSION_STR)

#
# This is used by the link '-copy ' directive.
# If left blank, the ASF copyright defined in NWGNUtail.inc will be used.
#
NLM_COPYRIGHT =

#
```

```
# This is used by the '-threadname' directive.  If left blank,
# NLM_NAME Thread will be used.
#
NLM_THREAD_NAME = JK Module

#
# If this is specified, it will override VERSION value in
# $(AP_WORK)\build\NWGNUenvironment.inc
#
NLM_VERSION = $(JK_VERSION)

#
# If this is specified, it will override the default of 64K
#
NLM_STACK_SIZE = 49152



#
# If this is specified it will be used by the link '-entry' directive
#
NLM_ENTRY_SYM = _LibCPrelude

#
# If this is specified it will be used by the link '-exit' directive
#
NLM_EXIT_SYM = _LibCPostlude

#
# If this is specified it will be used by the link '-check' directive
#
NLM_CHECK_SYM =

#
# If these are specified it will be used by the link '-flags' directive
#
NLM_FLAGS = AUTOUNLOAD, PSEUDOPREEMPTION

#
# If this is specified it will be linked in with the XDCData option in the def
# file instead of the default of $(NWOS)/apache.xdc.  XDCData can be disabled
# by setting APACHE_UNIPROC in the environment
#
XDCDATA  =

#
# If there is an NLM target, put it here
#
TARGET_nlm = \
```

```
 $(OBJDIR)/$(NLM_NAME).nlm \
 $(EOLIST)

#
# If there is an LIB target, put it here
#
TARGET_lib = \
 $(EOLIST)

#
# These are the OBJ files needed to create the NLM target above.
# Paths must all use the '/' character
#
FILES_nlm_objs = \
 $(OBJDIR)/jk_nwmain.o \
 $(OBJDIR)/jk_ajp12_worker.o \
 $(OBJDIR)/jk_ajp13.o \
 $(OBJDIR)/jk_ajp13_worker.o \
 $(OBJDIR)/jk_ajp14.o \
 $(OBJDIR)/jk_ajp14_worker.o \
 $(OBJDIR)/jk_ajp_common.o \
 $(OBJDIR)/jk_connect.o \
 $(OBJDIR)/jk_context.o \
 $(OBJDIR)/jk_lb_worker.o \
 $(OBJDIR)/jk_map.o \
 $(OBJDIR)/jk_md5.o \
 $(OBJDIR)/jk_msg_buff.o \
 $(OBJDIR)/jk_pool.o \
 $(OBJDIR)/jk_shm.o \
 $(OBJDIR)/jk_sockbuf.o \
 $(OBJDIR)/jk_status.o \
 $(OBJDIR)/jk_uri_worker_map.o \
 $(OBJDIR)/jk_url.o \
 $(OBJDIR)/jk_util.o \
 $(OBJDIR)/jk_worker.o \
 $(OBJDIR)/mod_jk.o \
 $(EOLIST)

#
# These are the LIB files needed to create the NLM target above.
# These will be added as a library command in the link.opt file.
#
FILES_nlm_libs = \
 $(NOVELLLIBC)/imports/libcpre.o \
 $(EOLIST)

#
# These are the modules that the above NLM target depends on to load.
```

```
# These will be added as a module command in the link.opt file.
#
FILES_nlm_modules = \
 aprlib \
 libc \
 $(EOLIST)

#
# If the nlm has a msg file, put it's path here
#
FILE_nlm_msg =

#
# If the nlm has a hlp file put it's path here
#
FILE_nlm_hlp =

#
# If this is specified, it will override $(NWOS)\copyright.txt.
#
FILE_nlm_copyright =

#
# Any additional imports go here
#
FILES_nlm_Ximports = \
 @aprlib.imp \
 @httpd.imp \
 @libc.imp \
 @ws2nlm.imp \
 $(EOLIST)

#
# Any symbols exported to here
#
FILES_nlm_exports = \
 jk_module \
 $(EOLIST)

#
# These are the OBJ files needed to create the LIB target above.
# Paths must all use the '/' character
#
FILES_lib_objs = \
 $(EOLIST)

#
# implement targets and dependancies (leave this section alone)
```

```
#

libs :: $(OBJDIR) $(TARGET_lib)

nlms :: libs $(TARGET_nlm)

#
# Updated this target to create necessary directories and copy files to the
# correct place.  (See $(AP_WORK)\build\NWGNUhead.inc for examples)
#
install :: nlms FORCE
 copy $(OBJDIR)\*.nlm $(INSTALL)\Apache2\modules\*.*

#
# Any specialized rules here
#

vpath %.c $(JKCOMMON)

$(OBJDIR)/version.inc: $(JKCOMMON)/jk_version.h $(OBJDIR)
 @echo Creating $@
 @awk -f ../../support/get_ver.awk $< > $@



#
# Include the version info retrieved from jk_version.h
#

-include $(OBJDIR)/version.inc

#
# Include the 'tail' makefile that has targets that depend on variables defined
# in this makefile
#

include $(AP_WORK)/build/NWGNUtail.inc
PGM
CRTCMOD MODULE(MOD_JK/MOD_JK) +
  SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('mod_jk.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
```

```
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp_common.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp12_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
```

```
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
  SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT' +
       'USE_SO_RCVTIMEO' + 'USE_SO_SNDTIMEO' ) +
  TEXT('jk_connect.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
  SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
```

```
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_context.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
  SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_lb_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
  SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MD5) +
  SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_md5.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
```

```
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_msg_buff.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
  SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_pool.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SOCKBUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_sockbuf.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
  SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_uri_worker_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
```

```
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
  SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_url.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
  SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_util.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_WORKER) +
  SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
      '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
  SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
```

```
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_status.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
  SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_shm.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
    MODULE(MOD_JK/MOD_JK +
          MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
          MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
          MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
          MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
          MOD_JK/JK_LB_WORK +
          MOD_JK/JK_MAP MOD_JK/JK_MD5 +
          MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
          MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
          MOD_JK/JK_URL +
          MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
          MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
    EXPORT(*SRCFILE) +
    BNDDIR() +
    TGTRLS(*CURRENT) +
    SRCFILE(MOD_JK/QSRVSRC) +
    SRCMBR(MOD_JK) +
    USRPRF(*USER) +
    BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
          QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
    TEXT('Apache Tomcat mod_jk connector module')

ENDPGM
```

```
PGM
CRTCMOD MODULE(MOD_JK/MOD_JK) +
  SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
     'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('mod_jk.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp_common.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp12_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
  SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT' 'USE_SO_RCVTIMEO' +
       'USE_SO_SNDTIMEO' ) +
  TEXT('jk_connect.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
```

```
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
  SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_context.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
  SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_lb_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
  SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MD5) +
  SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_md5.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
```

```
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_msg_buff.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
  SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_pool.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SOCKBUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_sockbuf.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
  SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_uri_worker_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
```

```
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
  SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_url.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
  SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_util.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_WORKER) +
  SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
  SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_status.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
```

```
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
  SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_shm.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
    MODULE(MOD_JK/MOD_JK +
         MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
         MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
         MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
         MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
         MOD_JK/JK_LB_WORK +
         MOD_JK/JK_MAP MOD_JK/JK_MD5 +
         MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
         MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
         MOD_JK/JK_URL +
         MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
         MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
    EXPORT(*SRCFILE) +
    BNDDIR() +
    TGTRLS(*CURRENT) +
    SRCFILE(MOD_JK/QSRVSRC) +
    SRCMBR(MOD_JK) +
    USRPRF(*USER) +
    BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
          QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
    TEXT('Apache Tomcat mod_jk connector module')

ENDPGM
```

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From native/common/ap_snprintf.c:

```
*
* cvt - IEEE floating point formatting routines.
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*
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2.365 Try-Tiny 0.11

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L<http://github.com/nothingmuch/try-tiny/>

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Yuval Kogman E<lt>nothingmuch@woobling.orgE<gt>

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2.366 tzcode 2015b

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2.367 tzdata 2015b

2.368 udev 124.0

2.368.1 Available under license :

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2.370 usbutils 007

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2.373 util-linux/libuuid 2.24

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2.374 vim 7.4

2.375 vmxnet3 1.2.0.0-k

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2.376 w3m 0.4

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From the README

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For more details and the names of other contributors, see the
doc/README* files and include/gc.h. This file describes typical use of
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#
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*/

/*
* Note that this defines a large number of tuning hooks, which can

```
* safely be ignored in nearly all cases.  For normal use it suffices
* to call only GC_MALLOC and perhaps GC_REALLOC.
* For better performance, also look at GC_MALLOC_ATOMIC, and
* GC_enable_incremental.  If you need an action to be performed
* immediately before an object is collected, look at GC_register_finalizer.
* If you are using Solaris threads, look at the end of this file.
* Everything else is best ignored unless you encounter performance
* problems.
*/

#ifndef _GC_H

# define _GC_H

/*
* Some tests for old macros.  These violate our namespace rules and will
* disappear shortly.  Use the GC_ names.
*/
#if defined(SOLARIS_THREADS) || defined(_SOLARIS_THREADS)
# define GC_SOLARIS_THREADS
#endif
#if defined(_SOLARIS_PTHREADS)
# define GC_SOLARIS_PTHREADS
#endif
#if defined(IRIX_THREADS)
# define GC_IRIX_THREADS
#endif
#if defined(DGUX_THREADS)
# if !defined(GC_DGUX386_THREADS)
#  define GC_DGUX386_THREADS
# endif
#endif
#if defined(HPUX_THREADS)
# define GC_HPUX_THREADS
#endif
#if defined(OSF1_THREADS)
# define GC_OSF1_THREADS
#endif
#if defined(LINUX_THREADS)
# define GC_LINUX_THREADS
#endif
#if defined(WIN32_THREADS)
# define GC_WIN32_THREADS
#endif
#if defined(USE_LD_WRAP)
# define GC_USE_LD_WRAP
#endif
```

```
#if !defined(_REENTRANT) && (defined(GC_SOLARIS_THREADS) \
            || defined(GC_SOLARIS_PTHREADS) \
       || defined(GC_HPUX_THREADS) \
       || defined(GC_LINUX_THREADS))
# define _REENTRANT
 /* Better late than never.  This fails if system headers that */
 /* depend on this were previously included.   */
#endif

#if defined(GC_DGUX386_THREADS) && !defined(_POSIX4A_DRAFT10_SOURCE)
# define _POSIX4A_DRAFT10_SOURCE 1
#endif

#if defined(GC_SOLARIS_PTHREADS) && !defined(GC_SOLARIS_THREADS)
#   define GC_SOLARIS_THREADS
#endif

# if defined(GC_SOLARIS_PTHREADS) || defined(GC_FREEBSD_THREADS) || \
 defined(GC_IRIX_THREADS) || defined(GC_LINUX_THREADS) || \
 defined(GC_HPUX_THREADS) || defined(GC_OSF1_THREADS) || \
 defined(GC_DGUX386_THREADS) || \
      (defined(GC_WIN32_THREADS) && defined(__CYGWIN32__))
#   define GC_PTHREADS
# endif

# define __GC
# include <stddef.h>
# ifdef _WIN32_WCE
/* Yet more kluges for WinCE */
#   include <stdlib.h>  /* size_t is defined here */
   typedef long ptrdiff_t; /* ptrdiff_t is not defined */
# endif

#if defined(__MINGW32__) && defined(_DLL) && !defined(GC_NOT_DLL)
# ifdef GC_BUILD
#   define GC_API __declspec(dllexport)
# else
#   define GC_API __declspec(dllimport)
# endif
#endif

#if (defined(__DMC__) || defined(_MSC_VER)) \
  && (defined(_DLL) && !defined(GC_NOT_DLL) \
          || defined(GC_DLL))
# ifdef GC_BUILD
#   define GC_API extern __declspec(dllexport)
# else
#   define GC_API __declspec(dllimport)
```

```
# endif
#endif

#if defined(__WATCOMC__) && defined(GC_DLL)
# ifdef GC_BUILD
#   define GC_API extern __declspec(dllexport)
# else
#   define GC_API extern __declspec(dllimport)
# endif
#endif

#ifndef GC_API
#define GC_API extern
#endif

# if defined(__STDC__) || defined(__cplusplus)
#   define GC_PROTO(args) args
  typedef void * GC_PTR;
#   define GC_CONST const
# else
#   define GC_PROTO(args) ()
  typedef char * GC_PTR;
#   define GC_CONST
#  endif

# ifdef __cplusplus
  extern "C" {
# endif


/* Define word and signed_word to be unsigned and signed types of the  */
/* size as char * or void *.  There seems to be no way to do this */
/* even semi-portably.  The following is probably no better/worse  */
/* than almost anything else.      */
/* The ANSI standard suggests that size_t and ptr_diff_t might be  */
/* better choices.  But those appear to have incorrect definitions */
/* on may systems.  Notably "typedef int size_t" seems to be both */
/* frequent and WRONG.       */
typedef unsigned long GC_word;
typedef long GC_signed_word;

/* Public read-only variables */

GC_API GC_word GC_gc_no;/* Counter incremented per collection.   */
  /* Includes empty GCs at startup.  */

GC_API int GC_parallel; /* GC is parallelized for performance on */
  /* multiprocessors.  Currently set only  */
```

```
  /* implicitly if collector is built with */
  /* -DPARALLEL_MARK and if either:  */
  /*  Env variable GC_NPROC is set to > 1, or */
  /*  GC_NPROC is not set and this is an MP. */
  /* If GC_parallel is set, incremental  */
  /* collection is only partially functional, */
  /* and may not be desirable.   */


/* Public R/W variables */

GC_API GC_PTR (*GC_oom_fn) GC_PROTO((size_t bytes_requested));
  /* When there is insufficient memory to satisfy */
  /* an allocation request, we return  */
  /* (*GC_oom_fn)().  By default this just */
  /* returns 0.     */
  /* If it returns, it must return 0 or a valid */
  /* pointer to a previously allocated heap  */
  /* object.     */

GC_API int GC_find_leak;
  /* Do not actually garbage collect, but simply */
  /* report inaccessible memory that was not */
  /* deallocated with GC_free.  Initial value */
  /* is determined by FIND_LEAK macro.  */

GC_API int GC_all_interior_pointers;
  /* Arrange for pointers to object interiors to */
  /* be recognized as valid.  May not be changed */
  /* after GC initialization.   */
  /* Initial value is determined by   */
  /* -DALL_INTERIOR_POINTERS.   */
  /* Unless DONT_ADD_BYTE_AT_END is defined, this */
  /* also affects whether sizes are increased by */
  /* at least a byte to allow "off the end" */
  /* pointer recognition.    */
  /* MUST BE 0 or 1.    */

GC_API int GC_quiet; /* Disable statistics output.  Only matters if */
  /* collector has been compiled with statistics */
  /* enabled.  This involves a performance cost, */
  /* and is thus not the default.   */

GC_API int GC_finalize_on_demand;
  /* If nonzero, finalizers will only be run in  */
  /* response to an explicit GC_invoke_finalizers */
  /* call.  The default is determined by whether */
  /* the FINALIZE_ON_DEMAND macro is defined */
```

```
  /* when the collector is built.   */

GC_API int GC_java_finalization;
  /* Mark objects reachable from finalizable  */
  /* objects in a separate postpass.  This makes */
  /* it a bit safer to use non-topologically- */
  /* ordered finalization.  Default value is */
  /* determined by JAVA_FINALIZATION macro. */

GC_API void (* GC_finalizer_notifier)();
  /* Invoked by the collector when there are  */
  /* objects to be finalized.  Invoked at most */
  /* once per GC cycle.  Never invoked unless  */
  /* GC_finalize_on_demand is set.  */
  /* Typically this will notify a finalization */
  /* thread, which will call GC_invoke_finalizers */
  /* in response.     */

GC_API int GC_dont_gc; /* Dont collect unless explicitly requested, e.g. */
  /* because it's not safe.     */

GC_API int GC_dont_expand;
  /* Dont expand heap unless explicitly requested */
  /* or forced to.    */

GC_API int GC_use_entire_heap;
 /* Causes the nonincremental collector to use the */
 /* entire heap before collecting.  This was the only  */
 /* option for GC versions < 5.0.  This sometimes */
 /* results in more large block fragmentation, since */
 /* very larg blocks will tend to get broken up  */
 /* during each GC cycle.  It is likely to result in a */
 /* larger working set, but lower collection  */
 /* frequencies, and hence fewer instructions executed */
 /* in the collector.     */

GC_API int GC_full_freq;    /* Number of partial collections between */
      /* full collections.  Matters only if */
      /* GC_incremental is set.   */
      /* Full collections are also triggered if */
      /* the collector detects a substantial */
      /* increase in the number of in-use heap */
      /* blocks.  Values in the tens are now */
      /* perfectly reasonable, unlike for  */
      /* earlier GC versions.   */

GC_API GC_word GC_non_gc_bytes;
  /* Bytes not considered candidates for collection. */
```

```
  /* Used only to control scheduling of collections. */
  /* Updated by GC_malloc_uncollectable and GC_free. */
  /* Wizards only.       */

GC_API int GC_no_dls;
  /* Don't register dynamic library data segments. */
  /* Wizards only.  Should be used only if the  */
  /* application explicitly registers all roots.  */
  /* In Microsoft Windows environments, this will  */
  /* usually also prevent registration of the  */
  /* main data segment as part of the root set.  */

GC_API GC_word GC_free_space_divisor;
  /* We try to make sure that we allocate at  */
  /* least N/GC_free_space_divisor bytes between */
  /* collections, where N is the heap size plus */
  /* a rough estimate of the root set size. */
  /* Initially, GC_free_space_divisor = 4. */
  /* Increasing its value will use less space */
  /* but more collection time.  Decreasing it */
  /* will appreciably decrease collection time */
  /* at the expense of space.   */
  /* GC_free_space_divisor = 1 will effectively */
  /* disable collections.    */

GC_API GC_word GC_max_retries;
  /* The maximum number of GCs attempted before */
  /* reporting out of memory after heap  */
  /* expansion fails.  Initially 0.  */


GC_API char *GC_stackbottom; /* Cool end of user stack.  */
   /* May be set in the client prior to */
   /* calling any GC_ routines.  This */
   /* avoids some overhead, and   */
   /* potentially some signals that can  */
   /* confuse debuggers.  Otherwise the */
   /* collector attempts to set it  */
   /* automatically.   */
   /* For multithreaded code, this is the */
   /* cold end of the stack for the */
   /* primordial thread.   */

GC_API int GC_dont_precollect;  /* Don't collect as part of   */
   /* initialization.  Should be set only */
   /* if the client wants a chance to */
   /* manually initialize the root set */
   /* before the first collection.  */
```

```
    /* Interferes with blacklisting. */
    /* Wizards only.   */

GC_API unsigned long GC_time_limit;
    /* If incremental collection is enabled, */
    /* We try to terminate collections  */
    /* after this many milliseconds.  Not a  */
    /* hard time bound.  Setting this to   */
    /* GC_TIME_UNLIMITED will essentially  */
    /* disable incremental collection while  */
    /* leaving generational collection  */
    /* enabled.      */
# define GC_TIME_UNLIMITED 999999
    /* Setting GC_time_limit to this value  */
    /* will disable the "pause time exceeded"*/
    /* tests.     */

/* Public procedures */

/* Initialize the collector.  This is only required when using thread-local
* allocation, since unlike the regular allocation routines, GC_local_malloc
* is not self-initializing.  If you use GC_local_malloc you should arrange
* to call this somehow (e.g. from a constructor) before doing any allocation.
*/
GC_API void GC_init GC_PROTO((void));

/*
* general purpose allocation routines, with roughly malloc calling conv.
* The atomic versions promise that no relevant pointers are contained
* in the object.  The nonatomic versions guarantee that the new object
* is cleared.  GC_malloc_stubborn promises that no changes to the object
* will occur after GC_end_stubborn_change has been called on the
* result of GC_malloc_stubborn. GC_malloc_uncollectable allocates an object
* that is scanned for pointers to collectable objects, but is not itself
* collectable.  The object is scanned even if it does not appear to
* be reachable.  GC_malloc_uncollectable and GC_free called on the resulting
* object implicitly update GC_non_gc_bytes appropriately.
*
* Note that the GC_malloc_stubborn support is stubbed out by default
* starting in 6.0.  GC_malloc_stubborn is an alias for GC_malloc unless
* the collector is built with STUBBORN_ALLOC defined.
*/
GC_API GC_PTR GC_malloc GC_PROTO((size_t size_in_bytes));
GC_API GC_PTR GC_malloc_atomic GC_PROTO((size_t size_in_bytes));
GC_API GC_PTR GC_malloc_uncollectable GC_PROTO((size_t size_in_bytes));
GC_API GC_PTR GC_malloc_stubborn GC_PROTO((size_t size_in_bytes));

/* The following is only defined if the library has been suitably */
```

```
/* compiled:       */
GC_API GC_PTR GC_malloc_atomic_uncollectable GC_PROTO((size_t size_in_bytes));

/* Explicitly deallocate an object.  Dangerous if used incorrectly.     */
/* Requires a pointer to the base of an object.    */
/* If the argument is stubborn, it should not be changeable when freed. */
/* An object should not be enable for finalization when it is   */
/* explicitly deallocated.      */
/* GC_free(0) is a no-op, as required by ANSI C for free.  */
GC_API void GC_free GC_PROTO((GC_PTR object_addr));

/*
* Stubborn objects may be changed only if the collector is explicitly informed.
* The collector is implicitly informed of coming change when such
* an object is first allocated.  The following routines inform the
* collector that an object will no longer be changed, or that it will
* once again be changed.  Only nonNIL pointer stores into the object
* are considered to be changes.  The argument to GC_end_stubborn_change
* must be exacly the value returned by GC_malloc_stubborn or passed to
* GC_change_stubborn.  (In the second case it may be an interior pointer
* within 512 bytes of the beginning of the objects.)
* There is a performance penalty for allowing more than
* one stubborn object to be changed at once, but it is acceptable to
* do so.  The same applies to dropping stubborn objects that are still
* changeable.
*/
GC_API void GC_change_stubborn GC_PROTO((GC_PTR));
GC_API void GC_end_stubborn_change GC_PROTO((GC_PTR));

/* Return a pointer to the base (lowest address) of an object given */
/* a pointer to a location within the object.    */
/* I.e. map an interior pointer to the corresponding bas pointer. */
/* Note that with debugging allocation, this returns a pointer to the */
/* actual base of the object, i.e. the debug information, not to */
/* the base of the user object.      */
/* Return 0 if displaced_pointer doesn't point to within a valid */
/* object.       */
GC_API GC_PTR GC_base GC_PROTO((GC_PTR displaced_pointer));

/* Given a pointer to the base of an object, return its size in bytes. */
/* The returned size may be slightly larger than what was originally */
/* requested.       */
GC_API size_t GC_size GC_PROTO((GC_PTR object_addr));

/* For compatibility with C library.  This is occasionally faster than */
/* a malloc followed by a bcopy.  But if you rely on that, either here */
/* or with the standard C library, your code is broken.  In my  */
/* opinion, it shouldn't have been invented, but now we're stuck. -HB */
```

```
/* The resulting object has the same kind as the original.  */
/* If the argument is stubborn, the result will have changes enabled. */
/* It is an error to have changes enabled for the original object. */
/* Follows ANSI comventions for NULL old_object.   */
GC_API GC_PTR GC_realloc
 GC_PROTO((GC_PTR old_object, size_t new_size_in_bytes));

/* Explicitly increase the heap size. */
/* Returns 0 on failure, 1 on success.  */
GC_API int GC_expand_hp GC_PROTO((size_t number_of_bytes));

/* Limit the heap size to n bytes.  Useful when you're debugging,  */
/* especially on systems that don't handle running out of memory well. */
/* n == 0 ==> unbounded.  This is the default.    */
GC_API void GC_set_max_heap_size GC_PROTO((GC_word n));

/* Inform the collector that a certain section of statically allocated */
/* memory contains no pointers to garbage collected memory.  Thus it  */
/* need not be scanned.  This is sometimes important if the application */
/* maps large read/write files into the address space, which could be */
/* mistaken for dynamic library data segments on some systems.  */
GC_API void GC_exclude_static_roots GC_PROTO((GC_PTR start, GC_PTR finish));

/* Clear the set of root segments.  Wizards only. */
GC_API void GC_clear_roots GC_PROTO((void));

/* Add a root segment.  Wizards only. */
GC_API void GC_add_roots GC_PROTO((char * low_address,
      char * high_address_plus_1));

/* Add a displacement to the set of those considered valid by the */
/* collector.  GC_register_displacement(n) means that if p was returned */
/* by GC_malloc, then (char *)p + n will be considered to be a valid */
/* pointer to n.  N must be small and less than the size of p.  */
/* (All pointers to the interior of objects from the stack are  */
/* considered valid in any case.  This applies to heap objects and */
/* static data.)       */
/* Preferably, this should be called before any other GC procedures. */
/* Calling it later adds to the probability of excess memory  */
/* retention.       */
/* This is a no-op if the collector was compiled with recognition of */
/* arbitrary interior pointers enabled, which is now the default. */
GC_API void GC_register_displacement GC_PROTO((GC_word n));

/* The following version should be used if any debugging allocation is */
/* being done.       */
GC_API void GC_debug_register_displacement GC_PROTO((GC_word n));
```

```
/* Explicitly trigger a full, world-stop collection.  */
GC_API void GC_gcollect GC_PROTO((void));

/* Trigger a full world-stopped collection.  Abort the collection if  */
/* and when stop_func returns a nonzero value.  Stop_func will be  */
/* called frequently, and should be reasonably fast.  This works even */
/* if virtual dirty bits, and hence incremental collection is not  */
/* available for this architecture.  Collections can be aborted faster */
/* than normal pause times for incremental collection.  However, */
/* aborted collections do no useful work; the next collection needs */
/* to start from the beginning.      */
/* Return 0 if the collection was aborted, 1 if it succeeded.  */
typedef int (* GC_stop_func) GC_PROTO((void));
GC_API int GC_try_to_collect GC_PROTO((GC_stop_func stop_func));

/* Return the number of bytes in the heap.  Excludes collector private */
/* data structures.  Includes empty blocks and fragmentation loss. */
/* Includes some pages that were allocated but never written.  */
GC_API size_t GC_get_heap_size GC_PROTO((void));

/* Return a lower bound on the number of free bytes in the heap. */
GC_API size_t GC_get_free_bytes GC_PROTO((void));

/* Return the number of bytes allocated since the last collection. */
GC_API size_t GC_get_bytes_since_gc GC_PROTO((void));

/* Return the total number of bytes allocated in this process.  */
/* Never decreases.       */
GC_API size_t GC_get_total_bytes GC_PROTO((void));

/* Enable incremental/generational collection. */
/* Not advisable unless dirty bits are   */
/* available or most heap objects are  */
/* pointerfree(atomic) or immutable.  */
/* Don't use in leak finding mode.  */
/* Ignored if GC_dont_gc is true.  */
/* Only the generational piece of this is */
/* functional if GC_parallel is TRUE  */
/* or if GC_time_limit is GC_TIME_UNLIMITED. */
/* Causes GC_local_gcj_malloc() to revert to */
/* locked allocation.  Must be called   */
/* before any GC_local_gcj_malloc() calls. */
GC_API void GC_enable_incremental GC_PROTO((void));

/* Does incremental mode write-protect pages?  Returns zero or */
/* more of the following, or'ed together:   */
#define GC_PROTECTS_POINTER_HEAP  1 /* May protect non-atomic objs. */
#define GC_PROTECTS_PTRFREE_HEAP  2
```

```
#define GC_PROTECTS_STATIC_DATA   4 /* Curently never.   */
#define GC_PROTECTS_STACK   8 /* Probably impractical.  */

#define GC_PROTECTS_NONE 0
GC_API int GC_incremental_protection_needs GC_PROTO((void));

/* Perform some garbage collection work, if appropriate. */
/* Return 0 if there is no more work to be done.  */
/* Typically performs an amount of work corresponding roughly */
/* to marking from one page.  May do more work if further */
/* progress requires it, e.g. if incremental collection is */
/* disabled.  It is reasonable to call this in a wait loop */
/* until it returns 0.      */
GC_API int GC_collect_a_little GC_PROTO((void));

/* Allocate an object of size lb bytes.  The client guarantees that */
/* as long as the object is live, it will be referenced by a pointer */
/* that points to somewhere within the first 256 bytes of the object. */
/* (This should normally be declared volatile to prevent the compiler */
/* from invalidating this assertion.)  This routine is only useful */
/* if a large array is being allocated.  It reduces the chance of  */
/* accidentally retaining such an array as a result of scanning an */
/* integer that happens to be an address inside the array.  (Actually, */
/* it reduces the chance of the allocator not finding space for such */
/* an array, since it will try hard to avoid introducing such a false */
/* reference.)  On a SunOS 4.X or MS Windows system this is recommended */
/* for arrays likely to be larger than 100K or so.  For other systems, */
/* or if the collector is not configured to recognize all interior */
/* pointers, the threshold is normally much higher.   */
GC_API GC_PTR GC_malloc_ignore_off_page GC_PROTO((size_t lb));
GC_API GC_PTR GC_malloc_atomic_ignore_off_page GC_PROTO((size_t lb));

#if defined(__sgi) && !defined(__GNUC__) && _COMPILER_VERSION >= 720
#   define GC_ADD_CALLER
#   define GC_RETURN_ADDR (GC_word)__return_address
#endif

#ifdef GC_ADD_CALLER
#  define GC_EXTRAS GC_RETURN_ADDR, __FILE__, __LINE__
#  define GC_EXTRA_PARAMS GC_word ra, GC_CONST char * s, int i
#else
#  define GC_EXTRAS __FILE__, __LINE__
#  define GC_EXTRA_PARAMS GC_CONST char * s, int i
#endif

/* Debugging (annotated) allocation.  GC_gcollect will check   */
/* objects allocated in this way for overwrites, etc.   */
GC_API GC_PTR GC_debug_malloc
```

```
 GC_PROTO((size_t size_in_bytes, GC_EXTRA_PARAMS));
GC_API GC_PTR GC_debug_malloc_atomic
 GC_PROTO((size_t size_in_bytes, GC_EXTRA_PARAMS));
GC_API GC_PTR GC_debug_malloc_uncollectable
 GC_PROTO((size_t size_in_bytes, GC_EXTRA_PARAMS));
GC_API GC_PTR GC_debug_malloc_stubborn
 GC_PROTO((size_t size_in_bytes, GC_EXTRA_PARAMS));
GC_API void GC_debug_free GC_PROTO((GC_PTR object_addr));
GC_API GC_PTR GC_debug_realloc
 GC_PROTO((GC_PTR old_object, size_t new_size_in_bytes,
    GC_EXTRA_PARAMS));

GC_API void GC_debug_change_stubborn GC_PROTO((GC_PTR));
GC_API void GC_debug_end_stubborn_change GC_PROTO((GC_PTR));
# ifdef GC_DEBUG
#   define GC_MALLOC(sz) GC_debug_malloc(sz, GC_EXTRAS)
#   define GC_MALLOC_ATOMIC(sz) GC_debug_malloc_atomic(sz, GC_EXTRAS)
#   define GC_MALLOC_UNCOLLECTABLE(sz) GC_debug_malloc_uncollectable(sz, \
      GC_EXTRAS)
#   define GC_REALLOC(old, sz) GC_debug_realloc(old, sz, GC_EXTRAS)
#   define GC_FREE(p) GC_debug_free(p)
#   define GC_REGISTER_FINALIZER(p, f, d, of, od) \
 GC_debug_register_finalizer(p, f, d, of, od)
#   define GC_REGISTER_FINALIZER_IGNORE_SELF(p, f, d, of, od) \
 GC_debug_register_finalizer_ignore_self(p, f, d, of, od)
#   define GC_REGISTER_FINALIZER_NO_ORDER(p, f, d, of, od) \
 GC_debug_register_finalizer_no_order(p, f, d, of, od)
#   define GC_MALLOC_STUBBORN(sz) GC_debug_malloc_stubborn(sz, GC_EXTRAS);
#   define GC_CHANGE_STUBBORN(p) GC_debug_change_stubborn(p)
#   define GC_END_STUBBORN_CHANGE(p) GC_debug_end_stubborn_change(p)
#   define GC_GENERAL_REGISTER_DISAPPEARING_LINK(link, obj) \
 GC_general_register_disappearing_link(link, GC_base(obj))
#   define GC_REGISTER_DISPLACEMENT(n) GC_debug_register_displacement(n)
# else
#   define GC_MALLOC(sz) GC_malloc(sz)
#   define GC_MALLOC_ATOMIC(sz) GC_malloc_atomic(sz)
#   define GC_MALLOC_UNCOLLECTABLE(sz) GC_malloc_uncollectable(sz)
#   define GC_REALLOC(old, sz) GC_realloc(old, sz)
#   define GC_FREE(p) GC_free(p)
#   define GC_REGISTER_FINALIZER(p, f, d, of, od) \
 GC_register_finalizer(p, f, d, of, od)
#   define GC_REGISTER_FINALIZER_IGNORE_SELF(p, f, d, of, od) \
 GC_register_finalizer_ignore_self(p, f, d, of, od)
#   define GC_REGISTER_FINALIZER_NO_ORDER(p, f, d, of, od) \
 GC_register_finalizer_no_order(p, f, d, of, od)
#   define GC_MALLOC_STUBBORN(sz) GC_malloc_stubborn(sz)
#   define GC_CHANGE_STUBBORN(p) GC_change_stubborn(p)
#   define GC_END_STUBBORN_CHANGE(p) GC_end_stubborn_change(p)
```

```
#   define GC_GENERAL_REGISTER_DISAPPEARING_LINK(link, obj) \
 GC_general_register_disappearing_link(link, obj)
#   define GC_REGISTER_DISPLACEMENT(n) GC_register_displacement(n)
# endif
/* The following are included because they are often convenient, and */
/* reduce the chance for a misspecifed size argument.  But calls may */
/* expand to something syntactically incorrect if t is a complicated */
/* type expression.         */
# define GC_NEW(t) (t *)GC_MALLOC(sizeof (t))
# define GC_NEW_ATOMIC(t) (t *)GC_MALLOC_ATOMIC(sizeof (t))
# define GC_NEW_STUBBORN(t) (t *)GC_MALLOC_STUBBORN(sizeof (t))
# define GC_NEW_UNCOLLECTABLE(t) (t *)GC_MALLOC_UNCOLLECTABLE(sizeof (t))

/* Finalization.  Some of these primitives are grossly unsafe.  */
/* The idea is to make them both cheap, and sufficient to build  */
/* a safer layer, closer to PCedar finalization.   */
/* The interface represents my conclusions from a long discussion */
/* with Alan Demers, Dan Greene, Carl Hauser, Barry Hayes,   */
/* Christian Jacobi, and Russ Atkinson.  It's not perfect, and  */
/* probably nobody else agrees with it.     Hans-J. Boehm  3/13/92 */
typedef void (*GC_finalization_proc)
  GC_PROTO((GC_PTR obj, GC_PTR client_data));

GC_API void GC_register_finalizer
    GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
    GC_finalization_proc *ofn, GC_PTR *ocd));
GC_API void GC_debug_register_finalizer
    GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
    GC_finalization_proc *ofn, GC_PTR *ocd));
 /* When obj is no longer accessible, invoke  */
 /* (*fn)(obj, cd).  If a and b are inaccessible, and */
 /* a points to b (after disappearing links have been */
 /* made to disappear), then only a will be  */
 /* finalized.  (If this does not create any new  */
 /* pointers to b, then b will be finalized after the */
 /* next collection.)  Any finalizable object that */
 /* is reachable from itself by following one or more */
 /* pointers will not be finalized (or collected). */
 /* Thus cycles involving finalizable objects should */
 /* be avoided, or broken by disappearing links.  */
 /* All but the last finalizer registered for an object  */
 /* is ignored.      */
 /* Finalization may be removed by passing 0 as fn. */
 /* Finalizers are implicitly unregistered just before   */
 /* they are invoked.     */
 /* The old finalizer and client data are stored in */
 /* *ofn and *ocd.     */
 /* Fn is never invoked on an accessible object,  */
```

```
 /* provided hidden pointers are converted to real  */
 /* pointers only if the allocation lock is held, and */
 /* such conversions are not performed by finalization */
 /* routines.      */
 /* If GC_register_finalizer is aborted as a result of */
 /* a signal, the object may be left with no  */
 /* finalization, even if neither the old nor new */
 /* finalizer were NULL.     */
 /* Obj should be the nonNULL starting address of an  */
 /* object allocated by GC_malloc or friends.  */
 /* Note that any garbage collectable object referenced */
 /* by cd will be considered accessible until the */
 /* finalizer is invoked.    */

/* Another versions of the above follow.  It ignores  */
/* self-cycles, i.e. pointers from a finalizable object to */
/* itself.  There is a stylistic argument that this is wrong, */
/* but it's unavoidable for C++, since the compiler may  */
/* silently introduce these.  It's also benign in that specific */
/* case.       */
/* Note that cd will still be viewed as accessible, even if it */
/* refers to the object itself.     */
GC_API void GC_register_finalizer_ignore_self
 GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
   GC_finalization_proc *ofn, GC_PTR *ocd));
GC_API void GC_debug_register_finalizer_ignore_self
 GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
   GC_finalization_proc *ofn, GC_PTR *ocd));

/* Another version of the above.  It ignores all cycles.        */
/* It should probably only be used by Java implementations.     */
/* Note that cd will still be viewed as accessible, even if it */
/* refers to the object itself.     */
GC_API void GC_register_finalizer_no_order
 GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
   GC_finalization_proc *ofn, GC_PTR *ocd));
GC_API void GC_debug_register_finalizer_no_order
 GC_PROTO((GC_PTR obj, GC_finalization_proc fn, GC_PTR cd,
   GC_finalization_proc *ofn, GC_PTR *ocd));


/* The following routine may be used to break cycles between */
/* finalizable objects, thus causing cyclic finalizable  */
/* objects to be finalized in the correct order.  Standard */
/* use involves calling GC_register_disappearing_link(&p), */
/* where p is a pointer that is not followed by finalization */
/* code, and should not be considered in determining   */
/* finalization order.      */
```

```
GC_API int GC_register_disappearing_link GC_PROTO((GC_PTR * /* link */));
 /* Link should point to a field of a heap allocated  */
 /* object obj.  *link will be cleared when obj is */
 /* found to be inaccessible.  This happens BEFORE any */
 /* finalization code is invoked, and BEFORE any  */
 /* decisions about finalization order are made.  */
 /* This is useful in telling the finalizer that  */
 /* some pointers are not essential for proper  */
 /* finalization.  This may avoid finalization cycles. */
 /* Note that obj may be resurrected by another  */
 /* finalizer, and thus the clearing of *link may */
 /* be visible to non-finalization code.    */
 /* There's an argument that an arbitrary action should  */
 /* be allowed here, instead of just clearing a pointer. */
 /* But this causes problems if that action alters, or  */
 /* examines connectivity.    */
 /* Returns 1 if link was already registered, 0  */
 /* otherwise.      */
 /* Only exists for backward compatibility.  See below: */

GC_API int GC_general_register_disappearing_link
 GC_PROTO((GC_PTR * /* link */, GC_PTR obj));
 /* A slight generalization of the above. *link is */
 /* cleared when obj first becomes inaccessible.  This */
 /* can be used to implement weak pointers easily and */
 /* safely. Typically link will point to a location */
 /* holding a disguised pointer to obj.  (A pointer  */
 /* inside an "atomic" object is effectively    */
 /* disguised.)   In this way soft   */
 /* pointers are broken before any object  */
 /* reachable from them are finalized.  Each link */
 /* May be registered only once, i.e. with one obj */
 /* value.  This was added after a long email discussion */
 /* with John Ellis.     */
 /* Obj must be a pointer to the first word of an object */
 /* we allocated.  It is unsafe to explicitly deallocate */
 /* the object containing link.  Explicitly deallocating */
 /* obj may or may not cause link to eventually be */
 /* cleared.      */
GC_API int GC_unregister_disappearing_link GC_PROTO((GC_PTR * /* link */));
 /* Returns 0 if link was not actually registered. */
 /* Undoes a registration by either of the above two */
 /* routines.      */

/* Auxiliary fns to make finalization work correctly with displaced */
/* pointers introduced by the debugging allocators.   */
GC_API GC_PTR GC_make_closure GC_PROTO((GC_finalization_proc fn, GC_PTR data));
GC_API void GC_debug_invoke_finalizer GC_PROTO((GC_PTR obj, GC_PTR data));
```

```
/* Returns !=0  if GC_invoke_finalizers has something to do.   */
GC_API int GC_should_invoke_finalizers GC_PROTO((void));

GC_API int GC_invoke_finalizers GC_PROTO((void));
 /* Run finalizers for all objects that are ready to */
 /* be finalized.  Return the number of finalizers */
 /* that were run.  Normally this is also called  */
 /* implicitly during some allocations. If  */
 /* GC-finalize_on_demand is nonzero, it must be called */
 /* explicitly.      */

/* GC_set_warn_proc can be used to redirect or filter warning messages. */
/* p may not be a NULL pointer.      */
typedef void (*GC_warn_proc) GC_PROTO((char *msg, GC_word arg));
GC_API GC_warn_proc GC_set_warn_proc GC_PROTO((GC_warn_proc p));
   /* Returns old warning procedure. */

/* The following is intended to be used by a higher level */
/* (e.g. Java-like) finalization facility.  It is expected */
/* that finalization code will arrange for hidden pointers to */
/* disappear.  Otherwise objects can be accessed after they */
/* have been collected.      */
/* Note that putting pointers in atomic objects or in   */
/* nonpointer slots of "typed" objects is equivalent to  */
/* disguising them in this way, and may have other advantages. */
# if defined(I_HIDE_POINTERS) || defined(GC_I_HIDE_POINTERS)
   typedef GC_word GC_hidden_pointer;
#   define HIDE_POINTER(p) (~(GC_hidden_pointer)(p))
#   define REVEAL_POINTER(p) ((GC_PTR)(HIDE_POINTER(p)))
   /* Converting a hidden pointer to a real pointer requires verifying */
   /* that the object still exists.  This involves acquiring the   */
   /* allocator lock to avoid a race with the collector.  */
# endif /* I_HIDE_POINTERS */

typedef GC_PTR (*GC_fn_type) GC_PROTO((GC_PTR client_data));
GC_API GC_PTR GC_call_with_alloc_lock
       GC_PROTO((GC_fn_type fn, GC_PTR client_data));

/* The following routines are primarily intended for use with a  */
/* preprocessor which inserts calls to check C pointer arithmetic. */

/* Check that p and q point to the same object.    */
/* Fail conspicuously if they don't.    */
/* Returns the first argument.      */
/* Succeeds if neither p nor q points to the heap.  */
/* May succeed if both p and q point to between heap objects. */
GC_API GC_PTR GC_same_obj GC_PROTO((GC_PTR p, GC_PTR q));
```

```
/* Checked pointer pre- and post- increment operations.  Note that */
/* the second argument is in units of bytes, not multiples of the */
/* object size.  This should either be invoked from a macro, or the */
/* call should be automatically generated.    */
GC_API GC_PTR GC_pre_incr GC_PROTO((GC_PTR *p, size_t how_much));
GC_API GC_PTR GC_post_incr GC_PROTO((GC_PTR *p, size_t how_much));

/* Check that p is visible      */
/* to the collector as a possibly pointer containing location.  */
/* If it isn't fail conspicuously.     */
/* Returns the argument in all cases.  May erroneously succeed  */
/* in hard cases.  (This is intended for debugging use with  */
/* untyped allocations.  The idea is that it should be possible, though */
/* slow, to add such a call to all indirect pointer stores.)  */
/* Currently useless for multithreaded worlds.    */
GC_API GC_PTR GC_is_visible GC_PROTO((GC_PTR p));

/* Check that if p is a pointer to a heap page, then it points to */
/* a valid displacement within a heap object.    */
/* Fail conspicuously if this property does not hold.   */
/* Uninteresting with GC_all_interior_pointers.    */
/* Always returns its argument.      */
GC_API GC_PTR GC_is_valid_displacement GC_PROTO((GC_PTR p));

/* Safer, but slow, pointer addition.  Probably useful mainly with  */
/* a preprocessor.  Useful only for heap pointers.   */
#ifdef GC_DEBUG
#   define GC_PTR_ADD3(x, n, type_of_result) \
 ((type_of_result)GC_same_obj((x)+(n), (x)))
#   define GC_PRE_INCR3(x, n, type_of_result) \
 ((type_of_result)GC_pre_incr(&(x), (n)*sizeof(*x))
#   define GC_POST_INCR2(x, type_of_result) \
 ((type_of_result)GC_post_incr(&(x), sizeof(*x))
#   ifdef __GNUC__
#      define GC_PTR_ADD(x, n) \
    GC_PTR_ADD3(x, n, typeof(x))
#      define GC_PRE_INCR(x, n) \
    GC_PRE_INCR3(x, n, typeof(x))
#      define GC_POST_INCR(x, n) \
    GC_POST_INCR3(x, typeof(x))
#   else
 /* We can't do this right without typeof, which ANSI */
 /* decided was not sufficiently useful.  Repeatedly */
 /* mentioning the arguments seems too dangerous to be */
 /* useful.  So does not casting the result.  */
#    define GC_PTR_ADD(x, n) ((x)+(n))
#   endif
```

```
#else /* !GC_DEBUG */
#   define GC_PTR_ADD3(x, n, type_of_result) ((x)+(n))
#   define GC_PTR_ADD(x, n) ((x)+(n))
#   define GC_PRE_INCR3(x, n, type_of_result) ((x) += (n))
#   define GC_PRE_INCR(x, n) ((x) += (n))
#   define GC_POST_INCR2(x, n, type_of_result) ((x)++)
#   define GC_POST_INCR(x, n) ((x)++)
#endif

/* Safer assignment of a pointer to a nonstack location. */
#ifdef GC_DEBUG
# ifdef __STDC__
#   define GC_PTR_STORE(p, q) \
 (*(void **)GC_is_visible(p) = GC_is_valid_displacement(q))
# else
#   define GC_PTR_STORE(p, q) \
 (*(char **)GC_is_visible(p) = GC_is_valid_displacement(q))
# endif
#else /* !GC_DEBUG */
#   define GC_PTR_STORE(p, q) *((p) = (q))
#endif

/* Fynctions called to report pointer checking errors */
GC_API void (*GC_same_obj_print_proc) GC_PROTO((GC_PTR p, GC_PTR q));

GC_API void (*GC_is_valid_displacement_print_proc)
 GC_PROTO((GC_PTR p));

GC_API void (*GC_is_visible_print_proc)
 GC_PROTO((GC_PTR p));



/* For pthread support, we generally need to intercept a number of  */
/* thread library calls.  We do that here by macro defining them. */

#if !defined(GC_USE_LD_WRAP) && \
  (defined(GC_PTHREADS) || defined(GC_SOLARIS_THREADS))
# include "gc_pthread_redirects.h"
#endif

# if defined(PCR) || defined(GC_SOLARIS_THREADS) || \
    defined(GC_PTHREADS) || defined(GC_WIN32_THREADS)
  /* Any flavor of threads except SRC_M3. */
/* This returns a list of objects, linked through their first  */
/* word.  Its use can greatly reduce lock contention problems, since */
/* the allocation lock can be acquired and released many fewer times. */
/* lb must be large enough to hold the pointer field.   */
/* It is used internally by gc_local_alloc.h, which provides a simpler */
```

```
/* programming interface on Linux.     */
GC_PTR GC_malloc_many(size_t lb);
#define GC_NEXT(p) (*(GC_PTR *)(p))  /* Retrieve the next element */
    /* in returned list.  */
extern void GC_thr_init(); /* Needed for Solaris/X86 */

#endif /* THREADS && !SRC_M3 */

#if defined(GC_WIN32_THREADS)
# include <windows.h>
# include <winbase.h>

 /*
  * All threads must be created using GC_CreateThread, so that they will be
  * recorded in the thread table.  For backwards compatibility, this is not
  * technically true if the GC is built as a dynamic library, since it can
  * and does then use DllMain to keep track of thread creations.  But new code
  * should be built to call GC_CreateThread.
  */
 HANDLE WINAPI GC_CreateThread(
    LPSECURITY_ATTRIBUTES lpThreadAttributes,
    DWORD dwStackSize, LPTHREAD_START_ROUTINE lpStartAddress,
    LPVOID lpParameter, DWORD dwCreationFlags, LPDWORD lpThreadId );

# if defined(_WIN32_WCE)
 /*
  * win32_threads.c implements the real WinMain, which will start a new thread
  * to call GC_WinMain after initializing the garbage collector.
  */
 int WINAPI GC_WinMain(
    HINSTANCE hInstance,
    HINSTANCE hPrevInstance,
    LPWSTR lpCmdLine,
    int nCmdShow );

#  ifndef GC_BUILD
#    define WinMain GC_WinMain
#    define CreateThread GC_CreateThread
#  endif
# endif /* defined(_WIN32_WCE) */

#endif /* defined(GC_WIN32_THREADS) */

/*
* If you are planning on putting
* the collector in a SunOS 5 dynamic library, you need to call GC_INIT()
* from the statically loaded program section.
* This circumvents a Solaris 2.X (X<=4) linker bug.
```

```
*/
#if defined(sparc) || defined(__sparc)
#   define GC_INIT() { extern end, etext; \
        GC_noop(&end, &etext); }
#else
# if defined(__CYGWIN32__) && defined(GC_USE_DLL) || defined (_AIX)
   /*
    * Similarly gnu-win32 DLLs need explicit initialization from
    * the main program, as does AIX.
    */
#   define GC_INIT() { GC_add_roots(DATASTART, DATAEND); }
# else
#   define GC_INIT()
# endif
#endif

#if !defined(_WIN32_WCE) \
   && ((defined(_MSDOS) || defined(_MSC_VER)) && (_M_IX86 >= 300) \
      || defined(_WIN32) && !defined(__CYGWIN32__) && !defined(__CYGWIN__))
 /* win32S may not free all resources on process exit.  */
 /* This explicitly deallocates the heap.   */
   GC_API void GC_win32_free_heap ();
#endif

#if ( defined(_AMIGA) && !defined(GC_AMIGA_MAKINGLIB) )
 /* Allocation really goes through GC_amiga_allocwrapper_do */
# include "gc_amiga_redirects.h"
#endif

#if defined(GC_REDIRECT_TO_LOCAL) && !defined(GC_LOCAL_ALLOC_H)
#  include  "gc_local_alloc.h"
#endif

#ifdef __cplusplus
   }  /* end of extern "C" */
#endif

#endif /* _GC_H */
```

2.377 wget 1.16.3

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2.379 whois 5.1.4

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Id

Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
==========

1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required

Wireshark requires a number of additional programs to function.
Install the latest versions of the following programs before compiling:

atk
cairo

expat
gettext
glib2
glitz
gtk2 / gtk+2
jpeg
pango
pkgconfig
png
tiff

The easiest way to install these is by using your operating system's
ports or packages system.

2. Compiling Wireshark

To compile Wireshark with the default options, run configure, make and
make install (you may have to run "autogen.sh" first):

```
./configure
make
make install
```

The configure and make steps can be run as a non-root user and you can
run Wireshark from the compilation directory itself. You must run make
install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement

In order to capture packets (with Wireshark/TShark, tcpdump, or any
other packet capture program) on a BSD system, your kernel must have the
Berkeley Packet Filter mechanism enabled. The default kernel
configurations in recent versions of BSD systems have this enabled
already. To verify the bpf device is present, look in the /dev
directory:

```
ls -l /dev/bpf*
```

You should see one or more bpf devices listed similar to this:

```
crw-------  1 root  wheel    0,  90 Aug 10 21:05 /dev/bpf0
crw-------  1 root  wheel    0,  91 Aug 10 21:05 /dev/bpf1
```

Packet-capturing programs will pick the first bpf device that's not in
use. Recent versions of most BSDs will create bpf devices as needed, so
you don't have to configure the number of devices that will be
available.

4. Running wireshark as a non-root user

Since the bpf devices are read-only by the owner (root), you normally
have to run packet capturing programs such as Wireshark as root. It is
safer to run programs as a non-root user if possible. To run Wireshark
as a non-root user, you must change the permissions on the bpf device(s).
If you are the only user that needs to use Wireshark, the easiest way
is to change the owner of each bpf device to your username. You can also
add the read/write ability to the group (typically wheel) and add users
that need to use Wireshark to the wheel group. Check your operating
system's documentation on how to make permanent these changes as they
are often reset upon reboot; if /dev is implemented with devfs, it might
be possible to configure devfs to create all bpf devices owned by a
particular user and/or group and with particular permissions. In
FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules
file with content such as

```
 [localrules=10]
 add path 'bpf*' {mode and permissions}
```

where "mode and permissions" can include clauses such as

```
 mode {octal permissions}
```

to set the permissions on the device (e.g., "mode 0660" to set the
permissions to rw-rw-r--),

```
 user {user}
```

to set the user who owns the device, or

```
 group {group}
```

to set the group that owns the device and adding a line such as

```
 devfs_system_ruleset=localrules
```

to /etc/rc.conf. For example, an /etc/devfs.rules file with

```
 [localrules=10]
 add path 'bpf*' mode 0660 group wheel
```

will grant read and write permissions on all BPF devices to all users in
the "wheel" group.
/* <filename>.c
*
* Id

*
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2.382 xdelta 3.0.0

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2.385 XML-LibXML 1.7

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2.386 XML-NamespaceSupport 1.1

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version: 0.40
abstract: SAX Driver for Expat
license: perl
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2.392 XML-Simple 2.18

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==========

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2.397 yaml 0.1.2

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2.399 YAML-Syck 1.07

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2.402 zlib 1.2.5

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The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
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*/

2.403 zlib/contrib-ada subpart 1.2.5

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3.1 amqp-xml 0-8

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3.3 bird 1.3.8

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3.5 clamav 0.98.7

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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That's all there is to it!

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<signature of Ty Coon>, 1 April 1990
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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The goal of the pthreads-win32 project has been to provide a quality and complete implementation of the POSIX threads API for Microsoft Windows within the limits imposed by virtue of it being a stand-alone library and not linked directly to other POSIX compliant libraries. For example, some functions and features, such as those based on POSIX signals, are missing.

Pthreads-win32 is a library, available in several different versions depending on supported compilers, and may be used as a dynamically linked module or a statically linked set of binary modules. It is not an application on it's own.

It was fully intended that pthreads-win32 be usable with commercial software not covered by either the GPL or the LGPL licenses. Pthreads-win32 has many contributors to it's code base, many of whom have done so because they have used the library in commercial or proprietry software projects.

Releasing pthreads-win32 under the LGPL ensures that the library can be used widely, while at the same time ensures that bug fixes and improvements to the pthreads-win32 code itself is returned to benefit all current and future users of the library.

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3.12 gwt-highcharts 1.3.0

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```
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*
*/
```

For the src/modules/standard/mod_imap.c component:

```
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```

For the src/main/util_md5.c component:

```
/************************************************************************
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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************************************************************************
*
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*/
/*
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* MD5 crypt() function, which is licenced as follows:
* --
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*/

For the src/lib/sdbm component:

* sdbm - ndbm work-alike hashed database library
* based on Per-Aake Larson's Dynamic Hashing algorithms. BIT 18 (1978).
* author: oz@nexus.yorku.ca
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```
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       ===============

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    Written by Adam Twiss (adam@zeus.co.uk).  March 1996

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
 Michael Campanella (campanella@stevms.enet.dec.com)

*/
```

For the expat xml parser component:

```
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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and

modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or

collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Version 2.1, February 1999

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as the successor of the GNU Library Public License, version 2, hence
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no

charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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*/
```

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```
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```

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```
/************************************************************************
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* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
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```
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```
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     ===============

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*/
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This software contains code derived from the RSA Data Security
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3.15 jackson-core 2.4.0

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Jackson JSON processor

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It is currently developed by a community of developers, as well as supported
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3.16 JiBX 1.2.5

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3.20 jsmin 2007-12-04

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3.21 JSON-C 0.12

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3.22 jzmq 3.1.0

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3.23 libpcap 1.1.1

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3.24 llvm 3.6.2

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3.26 luajit 2.0.2

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On all platforms, Nmap is normally linked with:
o libpcap: Network packet capture library. Distributed with Nmap in the
libpcap subdirectory.
http://www.tcpdump.org/
o libdnet: Networking library, used for low-level tasks such as sending
ethernet frames. A modified version is distributed with Nmap in the
libdnet-stripped subdirectory. A summary of Nmap-local modifications
is in the file NMAP_MODIFICATIONS.
http://code.google.com/p/libdnet/
o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's
version detection and is also made available as an NSE library.
Distributed with Nmap in the libpcre subdirectory.
http://www.pcre.org/
o liblua: Lua programming language. Lua is the implementation language
of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow
running Lua programs inside Nmap. Distributed with Nmap in the liblua
subdirectory. liblua can be omitted by configuring with the
--without-liblua configuration directive.
http://www.lua.org/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection
and by NSE to connect to SSL services. NSE also provides access to
OpenSSL functions such as encryption and digest calculation. A binary
copy of the OpenSSL library for Windows is distributed with Nmap in
the subdirectory mswin32/OpenSSL. OpenSSL can be disabled by
configuring with the --without-openssl configuration directive.
http://www.openssl.org/
o LIBLINEAR. Used for IPv6 OS classifiction.
http://www.csie.ntu.edu.tw/~cjlin/liblinear/
o libsvn. The Subversion library, used by the updater program
nmap-update. http://subversion.apache.org/
o APR (Apache Portable Runtime). Used by libsvn. http://apr.apache.org/

On Windows only, Nmap uses:
o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap,
and it also has its own license. A binary copy of the library is
distributed with Nmap in the subdirectory mswin32/winpcap.
http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in
licenses/BSD-simplified.

Zenmap and Ndiff require:
o Python. The binary distributions of Nmap include a Python interpreter
and various libraries, built using either py2exe or py2app.
http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:
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http://www.gtk.org/
o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the
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http://www.cairographics.org/
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http://xmlsoft.org/
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http://www.sqlite.org/
o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL
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http://www.pygtk.org/
o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1
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The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
http://www.x.org/ http://www.macports.org/

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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Written by: Philip Hazel
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3.32 vjdbc 1.6.5

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*
* Description: ROMMON ARP processing module. Inherited from PIX Monitor-Mode
*              Code base.
*
* This code was originally taken from the NetBSD 1.3.2 distribution.
* It has been rather extensively modified, including removing RARP
* and fixing a lot of bugs.
*
*---------------------------------------------------------------
* $Id: //depot/acmilan/main/Xpix/boot/rommon/nb_arp.c#2 $
* $Source:  $
*/
```

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4.5 Backbone.js 1.1.0

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4.6 base-files 3.0.14 :r73

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+Summary: Miscellaneous files for the base system.
+Name: base-files
+Version: 3.0.14
+Release: r73
+License: GPLv2

4.7 base-passwd 3.5.26

4.7.1 Available under license :

Format-Specification: http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135
Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
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  Gnomovision version 69, Copyright (C) year name of author
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  This is free software, and you are welcome to redistribute it
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4.8 base64.c 1.3

4.8.1 Available under license :

/* $NetBSD: base64.c,v 1.3 1997/07/13 19:57:30 christos Exp $ */

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*/

4.9 bash 4.2

4.9.1 Available under license :

From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+cwru/CWRU-2.1-ins)
 id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995
12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
 id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU 'Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}

} --
} "The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
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Version 3, 29 June 2007

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4.11 bind 4.9.4

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4.12 Bootstrap 3.1.0

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```

4.13 bridge-utils 1.5

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* v 1.18 2006/10/31 03:28:25 scottl Exp $");
*/
```

4.15 busybox 1.21.1 :5cee56419ec623d10e301c750073db6b

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

4.16 cdrtools 3.01a17 :Sep 8 2004 Joerg Schilling

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4.17 clock_util.c 1992

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* Dave Katz <dkatz@cisco.com> (port to RS/6000 AIX operating system)
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* Jeffrey Mogul <mogul@pa.dec.com> (ntptrace utility)
* Steve Clift (clift@ml.csiro.au) OMEGA clock driver)
*/
```

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4.19 Coreutils 8.21 :2013-02-14 Pádraig Brady

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<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

4.20 cracklib 2.9.0

4.20.1 Available under license :

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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^L

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ordinary GNU General Public License has appeared, then you can specify
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these notices.
^L
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the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
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therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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^L
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a

copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro

maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
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> > it was enough to just get it consistent and documented as to what
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> unlike the old license, GPL-2 prevents people from using cracklib
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> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
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> > I am sympathetic. Guys, what do you reckon?
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> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make

the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM

> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

4.21 CRC32 1.222

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4.22 cronie 1.4.11 :r0

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```

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*
* @(#)bitstring.h 8.1 (Berkeley) 7/19/93
*/
```

4.23 cryptsetup 1.6.2

4.23.1 Available under license :

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4.25 dante 1.2.0

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4.27 DHCP 4.2.5

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

==========

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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4.28 Diffutils 3.3

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4.30 dnsmasq 2.55

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4.32 e2fsprogs 1.42.8

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Theodore Ts'o
23-June-2007

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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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```
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```

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```
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4.33 ebtables 2.0.10-4

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4.34 errno.h 1.14

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* @(#)errno.h 8.5 (Berkeley) 1/21/94
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4.35 esapi 2.1.0

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4.40 fnmatch.c 1.11

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4.41 fnmatch.h 1.7

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4.42 forms 1.3.0

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4.43 freetype 2.5.3

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4.44 gawk 4.0.2 :2012-12-24 Arnold D. Robbins

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4.45 getline 1991

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*
* Thanks to the following people who have provided enhancements and fixes:
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*   DaviD W. Sanderson, Goran Bostrom, Michael Gleason, Glenn Kasten,
*   Edin Hodzic, Eric J Bivona, Kai Uwe Rommel
*/
```

4.46 gettext 0.18.3.2

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#include "gmp.h"
#include "gmp-impl.h"

const char * const gmp_version = VERSION;

4.48 gmp 5.1.1 :2013-02-10 Torbjorn Granlund

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4.62 ixgbe driver 1.7.5

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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4.75 libevent 2.0.21 :(18 Nov 2012)

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^L
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4.77 libgpg-error 1.12 :r0

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application

to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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4.79 libpam 1.1.6 :r3

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4.80 libunwind 1.0.1

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4.81 libusb 0.1.12 :ASA

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at

least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
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4.84 libutempter 1.1.6

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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4.85 libvirt 1.1.2

4.85.1 Available under license :

LibVirt : simple API for virtualization

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the Linux Operating System means the ability to run multiple instances of

Operating Systems concurrently on a single hardware system where the basic resources are driven by a Linux instance. The library aim at providing long term stable C API initially for the Xen paravirtualization but should be able to integrate other virtualization mechanisms if needed.

Daniel Veillard <veillard@redhat.com>

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```
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```

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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4.86 libxml2 2.9.0 :Fri Jul 10 16:11:34 2009 Daniel Veillard

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```
/*
* hash.c: chained hash tables
*
* Reference: Your favorite introductory book on algorithms
*
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```
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*
* Author: breese@users.sourceforge.net
*/

#define IN_LIBXML
#include "libxml.h"

#include <string.h>
#ifdef HAVE_STDLIB_H
#include <stdlib.h>
#endif
#ifdef HAVE_TIME_H
#include <time.h>
#endif

/*
* Following http://www.ocert.org/advisories/ocert-2011-003.html
* it seems that having hash randomization might be a good idea
* when using XML with untrusted data
*/
#if defined(HAVE_RAND) && defined(HAVE_SRAND) && defined(HAVE_TIME)
#define HASH_RANDOMIZATION
#endif

#include <libxml/parser.h>
#include <libxml/hash.h>
#include <libxml/xmlmemory.h>
#include <libxml/xmlerror.h>
#include <libxml/globals.h>

#define MAX_HASH_LEN 8

/* #define DEBUG_GROW */

/*
* A single entry in the hash table
*/
typedef struct _xmlHashEntry xmlHashEntry;
typedef xmlHashEntry *xmlHashEntryPtr;
struct _xmlHashEntry {
  struct _xmlHashEntry *next;
  xmlChar *name;
```

```
  xmlChar *name2;
  xmlChar *name3;
  void *payload;
  int valid;
};

/*
* The entire hash table
*/
struct _xmlHashTable {
  struct _xmlHashEntry *table;
  int size;
  int nbElems;
  xmlDictPtr dict;
#ifdef HASH_RANDOMIZATION
  int random_seed;
#endif
};

/*
* xmlHashComputeKey:
* Calculate the hash key
*/
static unsigned long
xmlHashComputeKey(xmlHashTablePtr table, const xmlChar *name,
        const xmlChar *name2, const xmlChar *name3) {
  unsigned long value = 0L;
  char ch;

#ifdef HASH_RANDOMIZATION
  value = table->random_seed;
#endif
  if (name != NULL) {
 value += 30 * (*name);
 while ((ch = *name++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
 }
  }
  if (name2 != NULL) {
 while ((ch = *name2++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
 }
  }
  if (name3 != NULL) {
 while ((ch = *name3++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
 }
  }
```

```
  return (value % table->size);
}

static unsigned long
xmlHashComputeQKey(xmlHashTablePtr table,
     const xmlChar *prefix, const xmlChar *name,
     const xmlChar *prefix2, const xmlChar *name2,
     const xmlChar *prefix3, const xmlChar *name3) {
  unsigned long value = 0L;
  char ch;

#ifdef HASH_RANDOMIZATION
  value = table->random_seed;
#endif
  if (prefix != NULL)
 value += 30 * (*prefix);
  else
 value += 30 * (*name);

  if (prefix != NULL) {
 while ((ch = *prefix++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
 }
 value = value ^ ((value << 5) + (value >> 3) + (unsigned long)':');
  }
  if (name != NULL) {
 while ((ch = *name++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
 }
  }
  if (prefix2 != NULL) {
 while ((ch = *prefix2++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
 }
 value = value ^ ((value << 5) + (value >> 3) + (unsigned long)':');
  }
  if (name2 != NULL) {
 while ((ch = *name2++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
 }
  }
  if (prefix3 != NULL) {
 while ((ch = *prefix3++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
 }
 value = value ^ ((value << 5) + (value >> 3) + (unsigned long)':');
  }
  if (name3 != NULL) {
```

```
 while ((ch = *name3++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
 }
  }
  return (value % table->size);
}

/**
* xmlHashCreate:
* @size: the size of the hash table
*
* Create a new xmlHashTablePtr.
*
* Returns the newly created object, or NULL if an error occured.
*/
xmlHashTablePtr
xmlHashCreate(int size) {
  xmlHashTablePtr table;

  if (size <= 0)
     size = 256;

  table = xmlMalloc(sizeof(xmlHashTable));
  if (table) {
     table->dict = NULL;
     table->size = size;
 table->nbElems = 0;
     table->table = xmlMalloc(size * sizeof(xmlHashEntry));
     if (table->table) {
    memset(table->table, 0, size * sizeof(xmlHashEntry));
#ifdef HASH_RANDOMIZATION
         table->random_seed = __xmlRandom();
#endif
    return(table);
      }
      xmlFree(table);
  }
  return(NULL);
}

/**
* xmlHashCreateDict:
* @size: the size of the hash table
* @dict: a dictionary to use for the hash
*
* Create a new xmlHashTablePtr which will use @dict as the internal dictionary
*
* Returns the newly created object, or NULL if an error occured.
```

```
*/
xmlHashTablePtr
xmlHashCreateDict(int size, xmlDictPtr dict) {
  xmlHashTablePtr table;

  table = xmlHashCreate(size);
  if (table != NULL) {
     table->dict = dict;
 xmlDictReference(dict);
  }
  return(table);
}

/**
* xmlHashGrow:
* @table: the hash table
* @size: the new size of the hash table
*
* resize the hash table
*
* Returns 0 in case of success, -1 in case of failure
*/
static int
xmlHashGrow(xmlHashTablePtr table, int size) {
  unsigned long key;
  int oldsize, i;
  xmlHashEntryPtr iter, next;
  struct _xmlHashEntry *oldtable;
#ifdef DEBUG_GROW
  unsigned long nbElem = 0;
#endif

  if (table == NULL)
 return(-1);
  if (size < 8)
     return(-1);
  if (size > 8 * 2048)
 return(-1);

  oldsize = table->size;
  oldtable = table->table;
  if (oldtable == NULL)
     return(-1);

  table->table = xmlMalloc(size * sizeof(xmlHashEntry));
  if (table->table == NULL) {
 table->table = oldtable;
 return(-1);
```

```
  }
  memset(table->table, 0, size * sizeof(xmlHashEntry));
  table->size = size;

  /* If the two loops are merged, there would be situations where
 a new entry needs to allocated and data copied into it from
 the main table. So instead, we run through the array twice, first
 copying all the elements in the main array (where we can't get
 conflicts) and then the rest, so we only free (and don't allocate)
  */
  for (i = 0; i < oldsize; i++) {
 if (oldtable[i].valid == 0)
    continue;
 key = xmlHashComputeKey(table, oldtable[i].name, oldtable[i].name2,
   oldtable[i].name3);
 memcpy(&(table->table[key]), &(oldtable[i]), sizeof(xmlHashEntry));
 table->table[key].next = NULL;
  }

  for (i = 0; i < oldsize; i++) {
 iter = oldtable[i].next;
 while (iter) {
    next = iter->next;

    /*
     * put back the entry in the new table
     */

    key = xmlHashComputeKey(table, iter->name, iter->name2,
                iter->name3);
    if (table->table[key].valid == 0) {
  memcpy(&(table->table[key]), iter, sizeof(xmlHashEntry));
  table->table[key].next = NULL;
  xmlFree(iter);
    } else {
  iter->next = table->table[key].next;
  table->table[key].next = iter;
    }

#ifdef DEBUG_GROW
    nbElem++;
#endif

    iter = next;
 }
  }

  xmlFree(oldtable);
```

```
#ifdef DEBUG_GROW
  xmlGenericError(xmlGenericErrorContext,
    "xmlHashGrow : from %d to %d, %d elems\n", oldsize, size, nbElem);
#endif

  return(0);
}

/**
* xmlHashFree:
* @table: the hash table
* @f:  the deallocator function for items in the hash
*
* Free the hash @table and its contents. The userdata is
* deallocated with @f if provided.
*/
void
xmlHashFree(xmlHashTablePtr table, xmlHashDeallocator f) {
  int i;
  xmlHashEntryPtr iter;
  xmlHashEntryPtr next;
  int inside_table = 0;
  int nbElems;

  if (table == NULL)
 return;
  if (table->table) {
 nbElems = table->nbElems;
 for(i = 0; (i < table->size) && (nbElems > 0); i++) {
    iter = &(table->table[i]);
    if (iter->valid == 0)
 continue;
    inside_table = 1;
    while (iter) {
 next = iter->next;
 if ((f != NULL) && (iter->payload != NULL))
     f(iter->payload, iter->name);
 if (table->dict == NULL) {
     if (iter->name)
  xmlFree(iter->name);
     if (iter->name2)
  xmlFree(iter->name2);
     if (iter->name3)
  xmlFree(iter->name3);
 }
 iter->payload = NULL;
 if (!inside_table)
```

```
    xmlFree(iter);
 nbElems--;
 inside_table = 0;
 iter = next;
   }
 }
 xmlFree(table->table);
  }
  if (table->dict)
     xmlDictFree(table->dict);
  xmlFree(table);
}

/**
* xmlHashAddEntry:
* @table: the hash table
* @name: the name of the userdata
* @userdata: a pointer to the userdata
*
* Add the @userdata to the hash @table. This can later be retrieved
* by using the @name. Duplicate names generate errors.
*
* Returns 0 the addition succeeded and -1 in case of error.
*/
int
xmlHashAddEntry(xmlHashTablePtr table, const xmlChar *name, void *userdata) {
  return(xmlHashAddEntry3(table, name, NULL, NULL, userdata));
}

/**
* xmlHashAddEntry2:
* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
* @userdata: a pointer to the userdata
*
* Add the @userdata to the hash @table. This can later be retrieved
* by using the (@name, @name2) tuple. Duplicate tuples generate errors.
*
* Returns 0 the addition succeeded and -1 in case of error.
*/
int
xmlHashAddEntry2(xmlHashTablePtr table, const xmlChar *name,
        const xmlChar *name2, void *userdata) {
  return(xmlHashAddEntry3(table, name, name2, NULL, userdata));
}

/**
```

```
* xmlHashUpdateEntry:
* @table: the hash table
* @name: the name of the userdata
* @userdata: a pointer to the userdata
* @f: the deallocator function for replaced item (if any)
*
* Add the @userdata to the hash @table. This can later be retrieved
* by using the @name. Existing entry for this @name will be removed
* and freed with @f if found.
*
* Returns 0 the addition succeeded and -1 in case of error.
*/
int
xmlHashUpdateEntry(xmlHashTablePtr table, const xmlChar *name,
          void *userdata, xmlHashDeallocator f) {
  return(xmlHashUpdateEntry3(table, name, NULL, NULL, userdata, f));
}

/**
* xmlHashUpdateEntry2:
* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
* @userdata: a pointer to the userdata
* @f: the deallocator function for replaced item (if any)
*
* Add the @userdata to the hash @table. This can later be retrieved
* by using the (@name, @name2) tuple. Existing entry for this tuple will
* be removed and freed with @f if found.
*
* Returns 0 the addition succeeded and -1 in case of error.
*/
int
xmlHashUpdateEntry2(xmlHashTablePtr table, const xmlChar *name,
          const xmlChar *name2, void *userdata,
    xmlHashDeallocator f) {
  return(xmlHashUpdateEntry3(table, name, name2, NULL, userdata, f));
}

/**
* xmlHashLookup:
* @table: the hash table
* @name: the name of the userdata
*
* Find the userdata specified by the @name.
*
* Returns the pointer to the userdata
*/
```

```
void *
xmlHashLookup(xmlHashTablePtr table, const xmlChar *name) {
  return(xmlHashLookup3(table, name, NULL, NULL));
}

/**
* xmlHashLookup2:
* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
*
* Find the userdata specified by the (@name, @name2) tuple.
*
* Returns the pointer to the userdata
*/
void *
xmlHashLookup2(xmlHashTablePtr table, const xmlChar *name,
       const xmlChar *name2) {
  return(xmlHashLookup3(table, name, name2, NULL));
}

/**
* xmlHashQLookup:
* @table: the hash table
* @prefix: the prefix of the userdata
* @name: the name of the userdata
*
* Find the userdata specified by the QName @prefix:@name/@name.
*
* Returns the pointer to the userdata
*/
void *
xmlHashQLookup(xmlHashTablePtr table, const xmlChar *prefix,
              const xmlChar *name) {
  return(xmlHashQLookup3(table, prefix, name, NULL, NULL, NULL, NULL));
}

/**
* xmlHashQLookup2:
* @table: the hash table
* @prefix: the prefix of the userdata
* @name: the name of the userdata
* @prefix2: the second prefix of the userdata
* @name2: a second name of the userdata
*
* Find the userdata specified by the QNames tuple
*
* Returns the pointer to the userdata
```

```
*/
void *
xmlHashQLookup2(xmlHashTablePtr table, const xmlChar *prefix,
              const xmlChar *name, const xmlChar *prefix2,
         const xmlChar *name2) {
  return(xmlHashQLookup3(table, prefix, name, prefix2, name2, NULL, NULL));
}

/**
* xmlHashAddEntry3:
* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
* @name3: a third name of the userdata
* @userdata: a pointer to the userdata
*
* Add the @userdata to the hash @table. This can later be retrieved
* by using the tuple (@name, @name2, @name3). Duplicate entries generate
* errors.
*
* Returns 0 the addition succeeded and -1 in case of error.
*/
int
xmlHashAddEntry3(xmlHashTablePtr table, const xmlChar *name,
          const xmlChar *name2, const xmlChar *name3,
  void *userdata) {
  unsigned long key, len = 0;
  xmlHashEntryPtr entry;
  xmlHashEntryPtr insert;

  if ((table == NULL) || (name == NULL))
 return(-1);

  /*
   * If using a dict internalize if needed
   */
  if (table->dict) {
     if (!xmlDictOwns(table->dict, name)) {
    name = xmlDictLookup(table->dict, name, -1);
    if (name == NULL)
       return(-1);
 }
     if ((name2 != NULL) && (!xmlDictOwns(table->dict, name2))) {
    name2 = xmlDictLookup(table->dict, name2, -1);
    if (name2 == NULL)
       return(-1);
 }
     if ((name3 != NULL) && (!xmlDictOwns(table->dict, name3))) {
```

```
    name3 = xmlDictLookup(table->dict, name3, -1);
    if (name3 == NULL)
        return(-1);
}
  }

  /*
   * Check for duplicate and insertion location.
   */
  key = xmlHashComputeKey(table, name, name2, name3);
  if (table->table[key].valid == 0) {
insert = NULL;
  } else {
      if (table->dict) {
    for (insert = &(table->table[key]); insert->next != NULL;
  insert = insert->next) {
 if ((insert->name == name) &&
     (insert->name2 == name2) &&
     (insert->name3 == name3))
     return(-1);
 len++;
    }
    if ((insert->name == name) &&
 (insert->name2 == name2) &&
 (insert->name3 == name3))
 return(-1);
} else {
    for (insert = &(table->table[key]); insert->next != NULL;
  insert = insert->next) {
 if ((xmlStrEqual(insert->name, name)) &&
     (xmlStrEqual(insert->name2, name2)) &&
     (xmlStrEqual(insert->name3, name3)))
     return(-1);
 len++;
    }
    if ((xmlStrEqual(insert->name, name)) &&
 (xmlStrEqual(insert->name2, name2)) &&
 (xmlStrEqual(insert->name3, name3)))
 return(-1);
}
  }

  if (insert == NULL) {
entry = &(table->table[key]);
  } else {
entry = xmlMalloc(sizeof(xmlHashEntry));
if (entry == NULL)
     return(-1);
```

```
  }

  if (table->dict != NULL) {
     entry->name = (xmlChar *) name;
     entry->name2 = (xmlChar *) name2;
     entry->name3 = (xmlChar *) name3;
  } else {
entry->name = xmlStrdup(name);
entry->name2 = xmlStrdup(name2);
entry->name3 = xmlStrdup(name3);
  }
  entry->payload = userdata;
  entry->next = NULL;
  entry->valid = 1;


  if (insert != NULL)
insert->next = entry;

  table->nbElems++;

  if (len > MAX_HASH_LEN)
xmlHashGrow(table, MAX_HASH_LEN * table->size);

  return(0);
}

/**
* xmlHashUpdateEntry3:
* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
* @name3: a third name of the userdata
* @userdata: a pointer to the userdata
* @f: the deallocator function for replaced item (if any)
*
* Add the @userdata to the hash @table. This can later be retrieved
* by using the tuple (@name, @name2, @name3). Existing entry for this tuple
* will be removed and freed with @f if found.
*
* Returns 0 the addition succeeded and -1 in case of error.
*/
int
xmlHashUpdateEntry3(xmlHashTablePtr table, const xmlChar *name,
          const xmlChar *name2, const xmlChar *name3,
    void *userdata, xmlHashDeallocator f) {
  unsigned long key;
  xmlHashEntryPtr entry;
```

```
  xmlHashEntryPtr insert;

  if ((table == NULL) || name == NULL)
return(-1);

  /*
   * If using a dict internalize if needed
   */
  if (table->dict) {
     if (!xmlDictOwns(table->dict, name)) {
    name = xmlDictLookup(table->dict, name, -1);
    if (name == NULL)
       return(-1);
}
     if ((name2 != NULL) && (!xmlDictOwns(table->dict, name2))) {
    name2 = xmlDictLookup(table->dict, name2, -1);
    if (name2 == NULL)
       return(-1);
}
     if ((name3 != NULL) && (!xmlDictOwns(table->dict, name3))) {
    name3 = xmlDictLookup(table->dict, name3, -1);
    if (name3 == NULL)
       return(-1);
}
  }

  /*
   * Check for duplicate and insertion location.
   */
  key = xmlHashComputeKey(table, name, name2, name3);
  if (table->table[key].valid == 0) {
insert = NULL;
  } else {
     if (table ->dict) {
    for (insert = &(table->table[key]); insert->next != NULL;
  insert = insert->next) {
 if ((insert->name == name) &&
     (insert->name2 == name2) &&
     (insert->name3 == name3)) {
     if (f)
  f(insert->payload, insert->name);
     insert->payload = userdata;
     return(0);
 }
    }
    if ((insert->name == name) &&
 (insert->name2 == name2) &&
 (insert->name3 == name3)) {
```

```
 if (f)
    f(insert->payload, insert->name);
 insert->payload = userdata;
 return(0);
   }
} else {
   for (insert = &(table->table[key]); insert->next != NULL;
 insert = insert->next) {
 if ((xmlStrEqual(insert->name, name)) &&
    (xmlStrEqual(insert->name2, name2)) &&
    (xmlStrEqual(insert->name3, name3))) {
    if (f)
 f(insert->payload, insert->name);
    insert->payload = userdata;
    return(0);
 }
   }
   if ((xmlStrEqual(insert->name, name)) &&
 (xmlStrEqual(insert->name2, name2)) &&
 (xmlStrEqual(insert->name3, name3))) {
 if (f)
    f(insert->payload, insert->name);
 insert->payload = userdata;
 return(0);
   }
}
 }

 if (insert == NULL) {
entry =  &(table->table[key]);
 } else {
entry = xmlMalloc(sizeof(xmlHashEntry));
if (entry == NULL)
    return(-1);
 }

 if (table->dict != NULL) {
     entry->name = (xmlChar *) name;
     entry->name2 = (xmlChar *) name2;
     entry->name3 = (xmlChar *) name3;
 } else {
entry->name = xmlStrdup(name);
entry->name2 = xmlStrdup(name2);
entry->name3 = xmlStrdup(name3);
 }
 entry->payload = userdata;
 entry->next = NULL;
 entry->valid = 1;
```

```
  table->nbElems++;


  if (insert != NULL) {
 insert->next = entry;
  }
  return(0);
}

/**
* xmlHashLookup3:
* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
* @name3: a third name of the userdata
*
* Find the userdata specified by the (@name, @name2, @name3) tuple.
*
* Returns the a pointer to the userdata
*/
void *
xmlHashLookup3(xmlHashTablePtr table, const xmlChar *name,
       const xmlChar *name2, const xmlChar *name3) {
  unsigned long key;
  xmlHashEntryPtr entry;

  if (table == NULL)
 return(NULL);
  if (name == NULL)
 return(NULL);
  key = xmlHashComputeKey(table, name, name2, name3);
  if (table->table[key].valid == 0)
 return(NULL);
  if (table->dict) {
 for (entry = &(table->table[key]); entry != NULL; entry = entry->next) {
    if ((entry->name == name) &&
 (entry->name2 == name2) &&
 (entry->name3 == name3))
 return(entry->payload);
 }
  }
  for (entry = &(table->table[key]); entry != NULL; entry = entry->next) {
 if ((xmlStrEqual(entry->name, name)) &&
    (xmlStrEqual(entry->name2, name2)) &&
    (xmlStrEqual(entry->name3, name3)))
    return(entry->payload);
  }
  return(NULL);
```

```
}

/**
* xmlHashQLookup3:
* @table: the hash table
* @prefix: the prefix of the userdata
* @name: the name of the userdata
* @prefix2: the second prefix of the userdata
* @name2: a second name of the userdata
* @prefix3: the third prefix of the userdata
* @name3: a third name of the userdata
*
* Find the userdata specified by the (@name, @name2, @name3) tuple.
*
* Returns the a pointer to the userdata
*/
void *
xmlHashQLookup3(xmlHashTablePtr table,
              const xmlChar *prefix, const xmlChar *name,
  const xmlChar *prefix2, const xmlChar *name2,
  const xmlChar *prefix3, const xmlChar *name3) {
   unsigned long key;
   xmlHashEntryPtr entry;

   if (table == NULL)
 return(NULL);
   if (name == NULL)
 return(NULL);
   key = xmlHashComputeQKey(table, prefix, name, prefix2,
                         name2, prefix3, name3);
   if (table->table[key].valid == 0)
 return(NULL);
   for (entry = &(table->table[key]); entry != NULL; entry = entry->next) {
 if ((xmlStrQEqual(prefix, name, entry->name)) &&
     (xmlStrQEqual(prefix2, name2, entry->name2)) &&
     (xmlStrQEqual(prefix3, name3, entry->name3)))
     return(entry->payload);
   }
   return(NULL);
}

typedef struct {
   xmlHashScanner hashscanner;
   void *data;
} stubData;

static void
stubHashScannerFull (void *payload, void *data, const xmlChar *name,
```

```
                const xmlChar *name2 ATTRIBUTE_UNUSED,
      const xmlChar *name3 ATTRIBUTE_UNUSED) {
  stubData *stubdata = (stubData *) data;
  stubdata->hashscanner (payload, stubdata->data, (xmlChar *) name);
}

/**
* xmlHashScan:
* @table: the hash table
* @f:  the scanner function for items in the hash
* @data:  extra data passed to f
*
* Scan the hash @table and applied @f to each value.
*/
void
xmlHashScan(xmlHashTablePtr table, xmlHashScanner f, void *data) {
  stubData stubdata;
  stubdata.data = data;
  stubdata.hashscanner = f;
  xmlHashScanFull (table, stubHashScannerFull, &stubdata);
}

/**
* xmlHashScanFull:
* @table: the hash table
* @f:  the scanner function for items in the hash
* @data:  extra data passed to f
*
* Scan the hash @table and applied @f to each value.
*/
void
xmlHashScanFull(xmlHashTablePtr table, xmlHashScannerFull f, void *data) {
  int i, nb;
  xmlHashEntryPtr iter;
  xmlHashEntryPtr next;

  if (table == NULL)
 return;
  if (f == NULL)
 return;

  if (table->table) {
 for(i = 0; i < table->size; i++) {
    if (table->table[i].valid == 0)
  continue;
    iter = &(table->table[i]);
    while (iter) {
  next = iter->next;
```

```
            nb = table->nbElems;
 if ((f != NULL) && (iter->payload != NULL))
     f(iter->payload, data, iter->name,
       iter->name2, iter->name3);
            if (nb != table->nbElems) {
               /* table was modified by the callback, be careful */
               if (iter == &(table->table[i])) {
                  if (table->table[i].valid == 0)
                     iter = NULL;
                  if (table->table[i].next != next)
      iter = &(table->table[i]);
               } else
         iter = next;
            } else
     iter = next;
    }
 }
  }
}

/**
* xmlHashScan3:
* @table: the hash table
* @name: the name of the userdata or NULL
* @name2: a second name of the userdata or NULL
* @name3: a third name of the userdata or NULL
* @f:  the scanner function for items in the hash
* @data:  extra data passed to f
*
* Scan the hash @table and applied @f to each value matching
* (@name, @name2, @name3) tuple. If one of the names is null,
* the comparison is considered to match.
*/
void
xmlHashScan3(xmlHashTablePtr table, const xmlChar *name,
     const xmlChar *name2, const xmlChar *name3,
     xmlHashScanner f, void *data) {
  xmlHashScanFull3 (table, name, name2, name3,
       (xmlHashScannerFull) f, data);
}

/**
* xmlHashScanFull3:
* @table: the hash table
* @name: the name of the userdata or NULL
* @name2: a second name of the userdata or NULL
* @name3: a third name of the userdata or NULL
* @f:  the scanner function for items in the hash
```

```
* @data:  extra data passed to f
*
* Scan the hash @table and applied @f to each value matching
* (@name, @name2, @name3) tuple. If one of the names is null,
* the comparison is considered to match.
*/
void
xmlHashScanFull3(xmlHashTablePtr table, const xmlChar *name,
  const xmlChar *name2, const xmlChar *name3,
  xmlHashScannerFull f, void *data) {
  int i;
  xmlHashEntryPtr iter;
  xmlHashEntryPtr next;

  if (table == NULL)
 return;
  if (f == NULL)
 return;

  if (table->table) {
 for(i = 0; i < table->size; i++) {
    if (table->table[i].valid == 0)
 continue;
    iter = &(table->table[i]);
    while (iter) {
 next = iter->next;
 if (((name == NULL) || (xmlStrEqual(name, iter->name))) &&
     ((name2 == NULL) || (xmlStrEqual(name2, iter->name2))) &&
     ((name3 == NULL) || (xmlStrEqual(name3, iter->name3))) &&
     (iter->payload != NULL)) {
     f(iter->payload, data, iter->name,
       iter->name2, iter->name3);
 }
 iter = next;
    }
 }
  }
}

/**
* xmlHashCopy:
* @table: the hash table
* @f:  the copier function for items in the hash
*
* Scan the hash @table and applied @f to each value.
*
* Returns the new table or NULL in case of error.
*/
```

```
xmlHashTablePtr
xmlHashCopy(xmlHashTablePtr table, xmlHashCopier f) {
  int i;
  xmlHashEntryPtr iter;
  xmlHashEntryPtr next;
  xmlHashTablePtr ret;

  if (table == NULL)
 return(NULL);
  if (f == NULL)
 return(NULL);

  ret = xmlHashCreate(table->size);
  if (table->table) {
 for(i = 0; i < table->size; i++) {
    if (table->table[i].valid == 0)
  continue;
    iter = &(table->table[i]);
    while (iter) {
  next = iter->next;
  xmlHashAddEntry3(ret, iter->name, iter->name2,
          iter->name3, f(iter->payload, iter->name));
  iter = next;
    }
 }
  }
  ret->nbElems = table->nbElems;
  return(ret);
}

/**
* xmlHashSize:
* @table: the hash table
*
* Query the number of elements installed in the hash @table.
*
* Returns the number of elements in the hash table or
* -1 in case of error
*/
int
xmlHashSize(xmlHashTablePtr table) {
  if (table == NULL)
 return(-1);
  return(table->nbElems);
}

/**
* xmlHashRemoveEntry:
```

```
* @table: the hash table
* @name: the name of the userdata
* @f: the deallocator function for removed item (if any)
*
* Find the userdata specified by the @name and remove
* it from the hash @table. Existing userdata for this tuple will be removed
* and freed with @f.
*
* Returns 0 if the removal succeeded and -1 in case of error or not found.
*/
int xmlHashRemoveEntry(xmlHashTablePtr table, const xmlChar *name,
        xmlHashDeallocator f) {
  return(xmlHashRemoveEntry3(table, name, NULL, NULL, f));
}

/**
* xmlHashRemoveEntry2:
* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
* @f: the deallocator function for removed item (if any)
*
* Find the userdata specified by the (@name, @name2) tuple and remove
* it from the hash @table. Existing userdata for this tuple will be removed
* and freed with @f.
*
* Returns 0 if the removal succeeded and -1 in case of error or not found.
*/
int
xmlHashRemoveEntry2(xmlHashTablePtr table, const xmlChar *name,
  const xmlChar *name2, xmlHashDeallocator f) {
  return(xmlHashRemoveEntry3(table, name, name2, NULL, f));
}

/**
* xmlHashRemoveEntry3:
* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
* @name3: a third name of the userdata
* @f: the deallocator function for removed item (if any)
*
* Find the userdata specified by the (@name, @name2, @name3) tuple and remove
* it from the hash @table. Existing userdata for this tuple will be removed
* and freed with @f.
*
* Returns 0 if the removal succeeded and -1 in case of error or not found.
*/
```

```
int
xmlHashRemoveEntry3(xmlHashTablePtr table, const xmlChar *name,
  const xmlChar *name2, const xmlChar *name3, xmlHashDeallocator f) {
  unsigned long key;
  xmlHashEntryPtr entry;
  xmlHashEntryPtr prev = NULL;

  if (table == NULL || name == NULL)
     return(-1);

  key = xmlHashComputeKey(table, name, name2, name3);
  if (table->table[key].valid == 0) {
     return(-1);
  } else {
     for (entry = &(table->table[key]); entry != NULL; entry = entry->next) {
        if (xmlStrEqual(entry->name, name) &&
              xmlStrEqual(entry->name2, name2) &&
              xmlStrEqual(entry->name3, name3)) {
           if ((f != NULL) && (entry->payload != NULL))
              f(entry->payload, entry->name);
           entry->payload = NULL;
 if (table->dict == NULL) {
    if(entry->name)
 xmlFree(entry->name);
    if(entry->name2)
 xmlFree(entry->name2);
    if(entry->name3)
 xmlFree(entry->name3);
 }
           if(prev) {
              prev->next = entry->next;
    xmlFree(entry);
 } else {
    if (entry->next == NULL) {
 entry->valid = 0;
    } else {
 entry = entry->next;
 memcpy(&(table->table[key]), entry, sizeof(xmlHashEntry));
 xmlFree(entry);
    }
 }
           table->nbElems--;
           return(0);
        }
        prev = entry;
     }
     return(-1);
  }
```

```
}

#define bottom_hash
#include "elfgcchack.h"
/*
* list.c: lists handling implementation
*
* Copyright (C) 2000 Gary Pennington and Daniel Veillard.
*
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* purpose with or without fee is hereby granted, provided that the above
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* MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND
* CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER.
*
* Author: Gary.Pennington@uk.sun.com
*/

#define IN_LIBXML
#include "libxml.h"

#include <stdlib.h>
#include <string.h>
#include <libxml/xmlmemory.h>
#include <libxml/list.h>
#include <libxml/globals.h>

/*
* Type definition are kept internal
*/

struct _xmlLink
{
  struct _xmlLink *next;
  struct _xmlLink *prev;
  void *data;
};

struct _xmlList
{
  xmlLinkPtr sentinel;
  void (*linkDeallocator)(xmlLinkPtr );
  int (*linkCompare)(const void *, const void*);
};
```

```
/************************************************************************
*                                                                      *
*                Interfaces                *
*                                                                      *
************************************************************************/

/**
* xmlLinkDeallocator:
* @l:  a list
* @lk:  a link
*
* Unlink and deallocate @lk from list @l
*/
static void
xmlLinkDeallocator(xmlListPtr l, xmlLinkPtr lk)
{
  (lk->prev)->next = lk->next;
  (lk->next)->prev = lk->prev;
  if(l->linkDeallocator)
     l->linkDeallocator(lk);
  xmlFree(lk);
}

/**
* xmlLinkCompare:
* @data0:  first data
* @data1:  second data
*
* Compares two arbitrary data
*
* Returns -1, 0 or 1 depending on whether data1 is greater equal or smaller
*         than data0
*/
static int
xmlLinkCompare(const void *data0, const void *data1)
{
  if (data0 < data1)
     return (-1);
  else if (data0 == data1)
 return (0);
  return (1);
}

/**
* xmlListLowerSearch:
* @l:  a list
* @data:  a data
*
```

```
* Search data in the ordered list walking from the beginning
*
* Returns the link containing the data or NULL
*/
static xmlLinkPtr
xmlListLowerSearch(xmlListPtr l, void *data)
{
  xmlLinkPtr lk;

  if (l == NULL)
     return(NULL);
  for(lk = l->sentinel->next;lk != l->sentinel && l->linkCompare(lk->data, data) <0 ;lk = lk->next);
  return lk;
}

/**
* xmlListHigherSearch:
* @l:  a list
* @data:  a data
*
* Search data in the ordered list walking backward from the end
*
* Returns the link containing the data or NULL
*/
static xmlLinkPtr
xmlListHigherSearch(xmlListPtr l, void *data)
{
  xmlLinkPtr lk;

  if (l == NULL)
     return(NULL);
  for(lk = l->sentinel->prev;lk != l->sentinel && l->linkCompare(lk->data, data) >0 ;lk = lk->prev);
  return lk;
}

/**
* xmlListSearch:
* @l:  a list
* @data:  a data
*
* Search data in the list
*
* Returns the link containing the data or NULL
*/
static xmlLinkPtr
xmlListLinkSearch(xmlListPtr l, void *data)
{
  xmlLinkPtr lk;
```

```
  if (l == NULL)
     return(NULL);
  lk = xmlListLowerSearch(l, data);
  if (lk == l->sentinel)
     return NULL;
  else {
     if (l->linkCompare(lk->data, data) ==0)
        return lk;
     return NULL;
  }
}

/**
* xmlListLinkReverseSearch:
* @l:  a list
* @data:  a data
*
* Search data in the list processing backward
*
* Returns the link containing the data or NULL
*/
static xmlLinkPtr
xmlListLinkReverseSearch(xmlListPtr l, void *data)
{
  xmlLinkPtr lk;
  if (l == NULL)
     return(NULL);
  lk = xmlListHigherSearch(l, data);
  if (lk == l->sentinel)
     return NULL;
  else {
     if (l->linkCompare(lk->data, data) ==0)
        return lk;
     return NULL;
  }
}

/**
* xmlListCreate:
* @deallocator:  an optional deallocator function
* @compare:  an optional comparison function
*
* Create a new list
*
* Returns the new list or NULL in case of error
*/
xmlListPtr
xmlListCreate(xmlListDeallocator deallocator, xmlListDataCompare compare)
```

```
{
  xmlListPtr l;
  if (NULL == (l = (xmlListPtr )xmlMalloc( sizeof(xmlList)))) {
     xmlGenericError(xmlGenericErrorContext,
        "Cannot initialize memory for list");
     return (NULL);
  }
  /* Initialize the list to NULL */
  memset(l, 0, sizeof(xmlList));

  /* Add the sentinel */
  if (NULL ==(l->sentinel = (xmlLinkPtr )xmlMalloc(sizeof(xmlLink)))) {
     xmlGenericError(xmlGenericErrorContext,
        "Cannot initialize memory for sentinel");
 xmlFree(l);
     return (NULL);
  }
  l->sentinel->next = l->sentinel;
  l->sentinel->prev = l->sentinel;
  l->sentinel->data = NULL;

  /* If there is a link deallocator, use it */
  if (deallocator != NULL)
     l->linkDeallocator = deallocator;
  /* If there is a link comparator, use it */
  if (compare != NULL)
     l->linkCompare = compare;
  else /* Use our own */
     l->linkCompare = xmlLinkCompare;
  return l;
}

/**
* xmlListSearch:
* @l:  a list
* @data:  a search value
*
* Search the list for an existing value of @data
*
* Returns the value associated to @data or NULL in case of error
*/
void *
xmlListSearch(xmlListPtr l, void *data)
{
  xmlLinkPtr lk;
  if (l == NULL)
     return(NULL);
  lk = xmlListLinkSearch(l, data);
```

```
  if (lk)
     return (lk->data);
  return NULL;
}

/**
* xmlListReverseSearch:
* @l:  a list
* @data:  a search value
*
* Search the list in reverse order for an existing value of @data
*
* Returns the value associated to @data or NULL in case of error
*/
void *
xmlListReverseSearch(xmlListPtr l, void *data)
{
  xmlLinkPtr lk;
  if (l == NULL)
     return(NULL);
  lk = xmlListLinkReverseSearch(l, data);
  if (lk)
     return (lk->data);
  return NULL;
}

/**
* xmlListInsert:
* @l:  a list
* @data:  the data
*
* Insert data in the ordered list at the beginning for this value
*
* Returns 0 in case of success, 1 in case of failure
*/
int
xmlListInsert(xmlListPtr l, void *data)
{
  xmlLinkPtr lkPlace, lkNew;

  if (l == NULL)
     return(1);
  lkPlace = xmlListLowerSearch(l, data);
  /* Add the new link */
  lkNew = (xmlLinkPtr) xmlMalloc(sizeof(xmlLink));
  if (lkNew == NULL) {
     xmlGenericError(xmlGenericErrorContext,
        "Cannot initialize memory for new link");
```

```
        return (1);
    }
    lkNew->data = data;
    lkPlace = lkPlace->prev;
    lkNew->next = lkPlace->next;
    (lkPlace->next)->prev = lkNew;
    lkPlace->next = lkNew;
    lkNew->prev = lkPlace;
    return 0;
}

/**
* xmlListAppend:
* @l:  a list
* @data:  the data
*
* Insert data in the ordered list at the end for this value
*
* Returns 0 in case of success, 1 in case of failure
*/
int xmlListAppend(xmlListPtr l, void *data)
{
    xmlLinkPtr lkPlace, lkNew;

    if (l == NULL)
        return(1);
    lkPlace = xmlListHigherSearch(l, data);
    /* Add the new link */
    lkNew = (xmlLinkPtr) xmlMalloc(sizeof(xmlLink));
    if (lkNew == NULL) {
        xmlGenericError(xmlGenericErrorContext,
            "Cannot initialize memory for new link");
        return (1);
    }
    lkNew->data = data;
    lkNew->next = lkPlace->next;
    (lkPlace->next)->prev = lkNew;
    lkPlace->next = lkNew;
    lkNew->prev = lkPlace;
    return 0;
}

/**
* xmlListDelete:
* @l:  a list
*
* Deletes the list and its associated data
*/
```

```
void xmlListDelete(xmlListPtr l)
{
  if (l == NULL)
     return;

  xmlListClear(l);
  xmlFree(l->sentinel);
  xmlFree(l);
}

/**
* xmlListRemoveFirst:
* @l:  a list
* @data:  list data
*
* Remove the first instance associated to data in the list
*
* Returns 1 if a deallocation occured, or 0 if not found
*/
int
xmlListRemoveFirst(xmlListPtr l, void *data)
{
  xmlLinkPtr lk;

  if (l == NULL)
     return(0);
  /*Find the first instance of this data */
  lk = xmlListLinkSearch(l, data);
  if (lk != NULL) {
     xmlLinkDeallocator(l, lk);
     return 1;
  }
  return 0;
}

/**
* xmlListRemoveLast:
* @l:  a list
* @data:  list data
*
* Remove the last instance associated to data in the list
*
* Returns 1 if a deallocation occured, or 0 if not found
*/
int
xmlListRemoveLast(xmlListPtr l, void *data)
{
  xmlLinkPtr lk;
```

```
  if (l == NULL)
     return(0);
  /*Find the last instance of this data */
  lk = xmlListLinkReverseSearch(l, data);
  if (lk != NULL) {
 xmlLinkDeallocator(l, lk);
     return 1;
  }
  return 0;
}

/**
* xmlListRemoveAll:
* @l:  a list
* @data:  list data
*
* Remove the all instance associated to data in the list
*
* Returns the number of deallocation, or 0 if not found
*/
int
xmlListRemoveAll(xmlListPtr l, void *data)
{
  int count=0;

  if (l == NULL)
     return(0);

  while(xmlListRemoveFirst(l, data))
     count++;
  return count;
}

/**
* xmlListClear:
* @l:  a list
*
* Remove the all data in the list
*/
void
xmlListClear(xmlListPtr l)
{
  xmlLinkPtr  lk;

  if (l == NULL)
     return;
  lk = l->sentinel->next;
```

```
  while(lk != l->sentinel) {
      xmlLinkPtr next = lk->next;

      xmlLinkDeallocator(l, lk);
      lk = next;
  }
}

/**
* xmlListEmpty:
* @l:  a list
*
* Is the list empty ?
*
* Returns 1 if the list is empty, 0 if not empty and -1 in case of error
*/
int
xmlListEmpty(xmlListPtr l)
{
  if (l == NULL)
      return(-1);
  return (l->sentinel->next == l->sentinel);
}

/**
* xmlListFront:
* @l:  a list
*
* Get the first element in the list
*
* Returns the first element in the list, or NULL
*/
xmlLinkPtr
xmlListFront(xmlListPtr l)
{
  if (l == NULL)
      return(NULL);
  return (l->sentinel->next);
}

/**
* xmlListEnd:
* @l:  a list
*
* Get the last element in the list
*
* Returns the last element in the list, or NULL
*/
```

```
xmlLinkPtr
xmlListEnd(xmlListPtr l)
{
  if (l == NULL)
     return(NULL);
  return (l->sentinel->prev);
}

/**
* xmlListSize:
* @l:  a list
*
* Get the number of elements in the list
*
* Returns the number of elements in the list or -1 in case of error
*/
int
xmlListSize(xmlListPtr l)
{
  xmlLinkPtr lk;
  int count=0;

  if (l == NULL)
     return(-1);
  /* TODO: keep a counter in xmlList instead */
  for(lk = l->sentinel->next; lk != l->sentinel; lk = lk->next, count++);
  return count;
}

/**
* xmlListPopFront:
* @l:  a list
*
* Removes the first element in the list
*/
void
xmlListPopFront(xmlListPtr l)
{
  if(!xmlListEmpty(l))
     xmlLinkDeallocator(l, l->sentinel->next);
}

/**
* xmlListPopBack:
* @l:  a list
*
* Removes the last element in the list
*/
```

```
void
xmlListPopBack(xmlListPtr l)
{
  if(!xmlListEmpty(l))
     xmlLinkDeallocator(l, l->sentinel->prev);
}

/**
* xmlListPushFront:
* @l:  a list
* @data:  new data
*
* add the new data at the beginning of the list
*
* Returns 1 if successful, 0 otherwise
*/
int
xmlListPushFront(xmlListPtr l, void *data)
{
  xmlLinkPtr lkPlace, lkNew;

  if (l == NULL)
     return(0);
  lkPlace = l->sentinel;
  /* Add the new link */
  lkNew = (xmlLinkPtr) xmlMalloc(sizeof(xmlLink));
  if (lkNew == NULL) {
     xmlGenericError(xmlGenericErrorContext,
        "Cannot initialize memory for new link");
     return (0);
  }
  lkNew->data = data;
  lkNew->next = lkPlace->next;
  (lkPlace->next)->prev = lkNew;
  lkPlace->next = lkNew;
  lkNew->prev = lkPlace;
  return 1;
}

/**
* xmlListPushBack:
* @l:  a list
* @data:  new data
*
* add the new data at the end of the list
*
* Returns 1 if successful, 0 otherwise
*/
```

```
int
xmlListPushBack(xmlListPtr l, void *data)
{
  xmlLinkPtr lkPlace, lkNew;

  if (l == NULL)
     return(0);
  lkPlace = l->sentinel->prev;
  /* Add the new link */
  if (NULL ==(lkNew = (xmlLinkPtr )xmlMalloc(sizeof(xmlLink)))) {
     xmlGenericError(xmlGenericErrorContext,
        "Cannot initialize memory for new link");
     return (0);
  }
  lkNew->data = data;
  lkNew->next = lkPlace->next;
  (lkPlace->next)->prev = lkNew;
  lkPlace->next = lkNew;
  lkNew->prev = lkPlace;
  return 1;
}

/**
* xmlLinkGetData:
* @lk:  a link
*
* See Returns.
*
* Returns a pointer to the data referenced from this link
*/
void *
xmlLinkGetData(xmlLinkPtr lk)
{
  if (lk == NULL)
     return(NULL);
  return lk->data;
}

/**
* xmlListReverse:
* @l:  a list
*
* Reverse the order of the elements in the list
*/
void
xmlListReverse(xmlListPtr l)
{
  xmlLinkPtr lk;
```

```
  xmlLinkPtr lkPrev;

  if (l == NULL)
     return;
  lkPrev = l->sentinel;
  for (lk = l->sentinel->next; lk != l->sentinel; lk = lk->next) {
     lkPrev->next = lkPrev->prev;
     lkPrev->prev = lk;
     lkPrev = lk;
  }
  /* Fix up the last node */
  lkPrev->next = lkPrev->prev;
  lkPrev->prev = lk;
}

/**
* xmlListSort:
* @l:  a list
*
* Sort all the elements in the list
*/
void
xmlListSort(xmlListPtr l)
{
  xmlListPtr lTemp;

  if (l == NULL)
     return;
  if(xmlListEmpty(l))
     return;

  /* I think that the real answer is to implement quicksort, the
   * alternative is to implement some list copying procedure which
   * would be based on a list copy followed by a clear followed by
   * an insert. This is slow...
   */

  if (NULL ==(lTemp = xmlListDup(l)))
     return;
  xmlListClear(l);
  xmlListMerge(l, lTemp);
  xmlListDelete(lTemp);
  return;
}

/**
* xmlListWalk:
* @l:  a list
```

```
* @walker:  a processing function
* @user:  a user parameter passed to the walker function
*
* Walk all the element of the first from first to last and
* apply the walker function to it
*/
void
xmlListWalk(xmlListPtr l, xmlListWalker walker, const void *user) {
  xmlLinkPtr lk;

  if ((l == NULL) || (walker == NULL))
     return;
  for(lk = l->sentinel->next; lk != l->sentinel; lk = lk->next) {
     if((walker(lk->data, user)) == 0)
           break;
  }
}

/**
* xmlListReverseWalk:
* @l:  a list
* @walker:  a processing function
* @user:  a user parameter passed to the walker function
*
* Walk all the element of the list in reverse order and
* apply the walker function to it
*/
void
xmlListReverseWalk(xmlListPtr l, xmlListWalker walker, const void *user) {
  xmlLinkPtr lk;

  if ((l == NULL) || (walker == NULL))
     return;
  for(lk = l->sentinel->prev; lk != l->sentinel; lk = lk->prev) {
     if((walker(lk->data, user)) == 0)
           break;
  }
}

/**
* xmlListMerge:
* @l1:  the original list
* @l2:  the new list
*
* include all the elements of the second list in the first one and
* clear the second list
*/
void
```

```
xmlListMerge(xmlListPtr l1, xmlListPtr l2)
{
  xmlListCopy(l1, l2);
  xmlListClear(l2);
}

/**
* xmlListDup:
* @old:  the list
*
* Duplicate the list
*
* Returns a new copy of the list or NULL in case of error
*/
xmlListPtr
xmlListDup(const xmlListPtr old)
{
  xmlListPtr cur;

  if (old == NULL)
     return(NULL);
  /* Hmmm, how to best deal with allocation issues when copying
   * lists. If there is a de-allocator, should responsibility lie with
   * the new list or the old list. Surely not both. I'll arbitrarily
   * set it to be the old list for the time being whilst I work out
   * the answer
   */
  if (NULL ==(cur = xmlListCreate(NULL, old->linkCompare)))
     return (NULL);
  if (0 != xmlListCopy(cur, old))
     return NULL;
  return cur;
}

/**
* xmlListCopy:
* @cur:  the new list
* @old:  the old list
*
* Move all the element from the old list in the new list
*
* Returns 0 in case of success 1 in case of error
*/
int
xmlListCopy(xmlListPtr cur, const xmlListPtr old)
{
  /* Walk the old tree and insert the data into the new one */
  xmlLinkPtr lk;
```

```
  if ((old == NULL) || (cur == NULL))
     return(1);
  for(lk = old->sentinel->next; lk != old->sentinel; lk = lk->next) {
     if (0 !=xmlListInsert(cur, lk->data)) {
        xmlListDelete(cur);
        return (1);
     }
  }
  return (0);
}
/* xmlListUnique() */
/* xmlListSwap */
#define bottom_list
#include "elfgcchack.h"
```

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```
/*************************************************************************
*
* $Id$
*
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*
************************************************************************
*
* A note to trio contributors:
*
* Avoid heap allocation at all costs to ensure that the trio functions
* are async-safe. The exceptions are the printf/fprintf functions, which
* uses fputc, and the asprintf functions and the <alloc> modifier, which
* by design are required to allocate form the heap.
*
************************************************************************/

/*
* TODO:
*  - Scan is probably too permissive about its modifiers.
*  - C escapes in %#[] ?
*  - Multibyte characters (done for format parsing, except scan groups)
```

```
*  - Complex numbers? (C99 _Complex)
*  - Boolean values? (C99 _Bool)
*  - C99 NaN(n-char-sequence) missing. The n-char-sequence can be used
*    to print the mantissa, e.g. NaN(0xc000000000000000)
*  - Should we support the GNU %a alloc modifier? GNU has an ugly hack
*    for %a, because C99 used %a for other purposes. If specified as
*    %as or %a[ it is interpreted as the alloc modifier, otherwise as
*    the C99 hex-float. This means that you cannot scan %as as a hex-float
*    immediately followed by an 's'.
*  - Scanning of collating symbols.
*/

/*************************************************************************
* Trio include files
*/
#include "triodef.h"
#include "trio.h"
#include "triop.h"
#include "trionan.h"
#if !defined(TRIO_MINIMAL)
# include "triostr.h"
#endif

/*************************************************************************
*
* Definitions
*
*************************************************************************/

#include <math.h>
#include <limits.h>
#include <float.h>

#if (defined(__STDC_ISO_10646__) || defined(MB_LEN_MAX) \
   || defined(USE_MULTIBYTE) || TRIO_WIDECHAR) \
  && !defined(_WIN32_WCE)
# define TRIO_COMPILER_SUPPORTS_MULTIBYTE
# if !defined(MB_LEN_MAX)
#  define MB_LEN_MAX 6
# endif
#endif

#if (defined(TRIO_COMPILER_MSVC) && (_MSC_VER >= 1100)) || defined(TRIO_COMPILER_BCB)
# define TRIO_COMPILER_SUPPORTS_MSVC_INT
#endif

#if defined(_WIN32_WCE)
#include <wincecompat.h>
```

```
#endif

/*************************************************************************
* Generic definitions
*/

#if !(defined(DEBUG) || defined(NDEBUG))
# define NDEBUG
#endif

#include <assert.h>
#include <ctype.h>
#if !defined(TRIO_COMPILER_SUPPORTS_C99)
# define isblank(x) (((x)==32) || ((x)==9))
#endif
#if defined(TRIO_COMPILER_ANCIENT)
# include <varargs.h>
#else
# include <stdarg.h>
#endif
#include <stddef.h>

#ifdef HAVE_ERRNO_H
#include <errno.h>
#endif

#ifndef NULL
# define NULL 0
#endif
#define NIL ((char)0)
#ifndef FALSE
# define FALSE (1 == 0)
# define TRUE (! FALSE)
#endif
#define BOOLEAN_T int

/* mincore() can be used for debugging purposes */
#define VALID(x) (NULL != (x))

#if TRIO_ERRORS
 /*
  * Encode the error code and the position. This is decoded
  * with TRIO_ERROR_CODE and TRIO_ERROR_POSITION.
  */
# define TRIO_ERROR_RETURN(x,y) (- ((x) + ((y) << 8)))
#else
# define TRIO_ERROR_RETURN(x,y) (-1)
#endif
```

```
typedef unsigned long trio_flags_t;


/*************************************************************************
* Platform specific definitions
*/
#if defined(TRIO_PLATFORM_UNIX)
# include <unistd.h>
# include <signal.h>
# include <locale.h>
# define USE_LOCALE
#endif /* TRIO_PLATFORM_UNIX */
#if defined(TRIO_PLATFORM_VMS)
# include <unistd.h>
#endif
#if defined(TRIO_PLATFORM_WIN32)
# if defined(_WIN32_WCE)
#  include <wincecompat.h>
# else
#  include <io.h>
#  define read _read
#  define write _write
# endif
#endif /* TRIO_PLATFORM_WIN32 */

#if TRIO_WIDECHAR
# if defined(TRIO_COMPILER_SUPPORTS_ISO94)
#  include <wchar.h>
#  include <wctype.h>
typedef wchar_t trio_wchar_t;
typedef wint_t trio_wint_t;
# else
typedef char trio_wchar_t;
typedef int trio_wint_t;
#  define WCONST(x) L ## x
#  define WEOF EOF
#  define iswalnum(x) isalnum(x)
#  define iswalpha(x) isalpha(x)
#  define iswblank(x) isblank(x)
#  define iswcntrl(x) iscntrl(x)
#  define iswdigit(x) isdigit(x)
#  define iswgraph(x) isgraph(x)
#  define iswlower(x) islower(x)
#  define iswprint(x) isprint(x)
#  define iswpunct(x) ispunct(x)
#  define iswspace(x) isspace(x)
#  define iswupper(x) isupper(x)
```

```
#  define iswxdigit(x) isxdigit(x)
# endif
#endif


/*************************************************************************
* Compiler dependent definitions
*/

/* Support for long long */
#ifndef __cplusplus
# if !defined(USE_LONGLONG)
#  if defined(TRIO_COMPILER_GCC) && !defined(__STRICT_ANSI__)
#   define USE_LONGLONG
#  elif defined(TRIO_COMPILER_SUNPRO)
#   define USE_LONGLONG
#  elif defined(_LONG_LONG) || defined(_LONGLONG)
#   define USE_LONGLONG
#  endif
# endif
#endif

/* The extra long numbers */
#if defined(USE_LONGLONG)
typedef signed long long int trio_longlong_t;
typedef unsigned long long int trio_ulonglong_t;
#elif defined(TRIO_COMPILER_SUPPORTS_MSVC_INT)
typedef signed __int64 trio_longlong_t;
typedef unsigned __int64 trio_ulonglong_t;
#else
typedef TRIO_SIGNED long int trio_longlong_t;
typedef unsigned long int trio_ulonglong_t;
#endif

/* Maximal and fixed integer types */
#if defined(TRIO_COMPILER_SUPPORTS_C99)
# include <stdint.h>
typedef intmax_t trio_intmax_t;
typedef uintmax_t trio_uintmax_t;
typedef int8_t trio_int8_t;
typedef int16_t trio_int16_t;
typedef int32_t trio_int32_t;
typedef int64_t trio_int64_t;
#elif defined(TRIO_COMPILER_SUPPORTS_UNIX98)
# include <inttypes.h>
typedef intmax_t trio_intmax_t;
typedef uintmax_t trio_uintmax_t;
typedef int8_t trio_int8_t;
```

```
typedef int16_t trio_int16_t;
typedef int32_t trio_int32_t;
typedef int64_t trio_int64_t;
#elif defined(TRIO_COMPILER_SUPPORTS_MSVC_INT)
typedef trio_longlong_t trio_intmax_t;
typedef trio_ulonglong_t trio_uintmax_t;
typedef __int8 trio_int8_t;
typedef __int16 trio_int16_t;
typedef __int32 trio_int32_t;
typedef __int64 trio_int64_t;
#else
typedef trio_longlong_t trio_intmax_t;
typedef trio_ulonglong_t trio_uintmax_t;
# if defined(TRIO_INT8_T)
typedef TRIO_INT8_T trio_int8_t;
# else
typedef TRIO_SIGNED char trio_int8_t;
# endif
# if defined(TRIO_INT16_T)
typedef TRIO_INT16_T trio_int16_t;
# else
typedef TRIO_SIGNED short trio_int16_t;
# endif
# if defined(TRIO_INT32_T)
typedef TRIO_INT32_T trio_int32_t;
# else
typedef TRIO_SIGNED int trio_int32_t;
# endif
# if defined(TRIO_INT64_T)
typedef TRIO_INT64_T trio_int64_t;
# else
typedef trio_longlong_t trio_int64_t;
# endif
#endif

#if (!(defined(TRIO_COMPILER_SUPPORTS_C99) \
|| defined(TRIO_COMPILER_SUPPORTS_UNIX01))) \
&& !defined(_WIN32_WCE)
# define floorl(x) floor((double)(x))
# define fmodl(x,y) fmod((double)(x),(double)(y))
# define powl(x,y) pow((double)(x),(double)(y))
#endif

#define TRIO_FABS(x) (((x) < 0.0) ? -(x) : (x))

/*************************************************************************
* Internal Definitions
*/
```

```
#ifndef DECIMAL_DIG
# define DECIMAL_DIG DBL_DIG
#endif

/* Long double sizes */
#ifdef LDBL_DIG
# define MAX_MANTISSA_DIGITS LDBL_DIG
# define MAX_EXPONENT_DIGITS 4
# define MAX_DOUBLE_DIGITS LDBL_MAX_10_EXP
#else
# define MAX_MANTISSA_DIGITS DECIMAL_DIG
# define MAX_EXPONENT_DIGITS 3
# define MAX_DOUBLE_DIGITS DBL_MAX_10_EXP
#endif

#if defined(TRIO_COMPILER_ANCIENT) || !defined(LDBL_DIG)
# undef LDBL_DIG
# undef LDBL_MANT_DIG
# undef LDBL_EPSILON
# define LDBL_DIG DBL_DIG
# define LDBL_MANT_DIG DBL_MANT_DIG
# define LDBL_EPSILON DBL_EPSILON
#endif

/* The maximal number of digits is for base 2 */
#define MAX_CHARS_IN(x) (sizeof(x) * CHAR_BIT)
/* The width of a pointer. The number of bits in a hex digit is 4 */
#define POINTER_WIDTH ((sizeof("0x") - 1) + sizeof(trio_pointer_t) * CHAR_BIT / 4)

/* Infinite and Not-A-Number for floating-point */
#define INFINITE_LOWER "inf"
#define INFINITE_UPPER "INF"
#define LONG_INFINITE_LOWER "infinite"
#define LONG_INFINITE_UPPER "INFINITE"
#define NAN_LOWER "nan"
#define NAN_UPPER "NAN"

#if !defined(HAVE_ISASCII) && !defined(isascii)
#  define isascii(x) ((unsigned int)(x) < 128)
#endif

/* Various constants */
enum {
 TYPE_PRINT = 1,
 TYPE_SCAN  = 2,

 /* Flags. FLAGS_LAST must be less than ULONG_MAX */
```

```
  FLAGS_NEW             = 0,
  FLAGS_STICKY          = 1,
  FLAGS_SPACE           = 2 * FLAGS_STICKY,
  FLAGS_SHOWSIGN        = 2 * FLAGS_SPACE,
  FLAGS_LEFTADJUST      = 2 * FLAGS_SHOWSIGN,
  FLAGS_ALTERNATIVE     = 2 * FLAGS_LEFTADJUST,
  FLAGS_SHORT           = 2 * FLAGS_ALTERNATIVE,
  FLAGS_SHORTSHORT      = 2 * FLAGS_SHORT,
  FLAGS_LONG            = 2 * FLAGS_SHORTSHORT,
  FLAGS_QUAD            = 2 * FLAGS_LONG,
  FLAGS_LONGDOUBLE      = 2 * FLAGS_QUAD,
  FLAGS_SIZE_T          = 2 * FLAGS_LONGDOUBLE,
  FLAGS_PTRDIFF_T       = 2 * FLAGS_SIZE_T,
  FLAGS_INTMAX_T        = 2 * FLAGS_PTRDIFF_T,
  FLAGS_NILPADDING      = 2 * FLAGS_INTMAX_T,
  FLAGS_UNSIGNED        = 2 * FLAGS_NILPADDING,
  FLAGS_UPPER           = 2 * FLAGS_UNSIGNED,
  FLAGS_WIDTH           = 2 * FLAGS_UPPER,
  FLAGS_WIDTH_PARAMETER    = 2 * FLAGS_WIDTH,
  FLAGS_PRECISION       = 2 * FLAGS_WIDTH_PARAMETER,
  FLAGS_PRECISION_PARAMETER = 2 * FLAGS_PRECISION,
  FLAGS_BASE            = 2 * FLAGS_PRECISION_PARAMETER,
  FLAGS_BASE_PARAMETER     = 2 * FLAGS_BASE,
  FLAGS_FLOAT_E         = 2 * FLAGS_BASE_PARAMETER,
  FLAGS_FLOAT_G         = 2 * FLAGS_FLOAT_E,
  FLAGS_QUOTE           = 2 * FLAGS_FLOAT_G,
  FLAGS_WIDECHAR        = 2 * FLAGS_QUOTE,
  FLAGS_ALLOC           = 2 * FLAGS_WIDECHAR,
  FLAGS_IGNORE          = 2 * FLAGS_ALLOC,
  FLAGS_IGNORE_PARAMETER   = 2 * FLAGS_IGNORE,
  FLAGS_VARSIZE_PARAMETER  = 2 * FLAGS_IGNORE_PARAMETER,
  FLAGS_FIXED_SIZE      = 2 * FLAGS_VARSIZE_PARAMETER,
  FLAGS_LAST            = FLAGS_FIXED_SIZE,
  /* Reused flags */
  FLAGS_EXCLUDE         = FLAGS_SHORT,
  FLAGS_USER_DEFINED    = FLAGS_IGNORE,
  FLAGS_ROUNDING        = FLAGS_INTMAX_T,
  /* Compounded flags */
  FLAGS_ALL_VARSIZES    = FLAGS_LONG | FLAGS_QUAD | FLAGS_INTMAX_T | FLAGS_PTRDIFF_T
 | FLAGS_SIZE_T,
  FLAGS_ALL_SIZES       = FLAGS_ALL_VARSIZES | FLAGS_SHORTSHORT | FLAGS_SHORT,

  NO_POSITION  = -1,
  NO_WIDTH     =  0,
  NO_PRECISION = -1,
  NO_SIZE      = -1,

  /* Do not change these */
```

```
 NO_BASE      = -1,
 MIN_BASE     =  2,
 MAX_BASE     = 36,
 BASE_BINARY  =  2,
 BASE_OCTAL   =  8,
 BASE_DECIMAL = 10,
 BASE_HEX     = 16,

 /* Maximal number of allowed parameters */
 MAX_PARAMETERS = 64,
 /* Maximal number of characters in class */
 MAX_CHARACTER_CLASS = UCHAR_MAX + 1,

 /* Maximal string lengths for user-defined specifiers */
 MAX_USER_NAME = 64,
 MAX_USER_DATA = 256,

 /* Maximal length of locale separator strings */
 MAX_LOCALE_SEPARATOR_LENGTH = MB_LEN_MAX,
 /* Maximal number of integers in grouping */
 MAX_LOCALE_GROUPS = 64,

 /* Initial size of asprintf buffer */
 DYNAMIC_START_SIZE = 32
};

#define NO_GROUPING ((int)CHAR_MAX)

/* Fundamental formatting parameter types */
#define FORMAT_UNKNOWN   0
#define FORMAT_INT       1
#define FORMAT_DOUBLE    2
#define FORMAT_CHAR      3
#define FORMAT_STRING    4
#define FORMAT_POINTER   5
#define FORMAT_COUNT     6
#define FORMAT_PARAMETER 7
#define FORMAT_GROUP     8
#if TRIO_GNU
# define FORMAT_ERRNO    9
#endif
#if TRIO_EXTENSION
# define FORMAT_USER_DEFINED 10
#endif

/* Character constants */
#define CHAR_IDENTIFIER '%'
#define CHAR_BACKSLASH '\\'
```

```
#define CHAR_QUOTE '\"'
#define CHAR_ADJUST ' '

/* Character class expressions */
#define CLASS_ALNUM "[:alnum:]"
#define CLASS_ALPHA "[:alpha:]"
#define CLASS_BLANK "[:blank:]"
#define CLASS_CNTRL "[:cntrl:]"
#define CLASS_DIGIT "[:digit:]"
#define CLASS_GRAPH "[:graph:]"
#define CLASS_LOWER "[:lower:]"
#define CLASS_PRINT "[:print:]"
#define CLASS_PUNCT "[:punct:]"
#define CLASS_SPACE "[:space:]"
#define CLASS_UPPER "[:upper:]"
#define CLASS_XDIGIT "[:xdigit:]"

/*
* SPECIFIERS:
*
*
* a  Hex-float
* A  Hex-float
* c  Character
* C  Widechar character (wint_t)
* d  Decimal
* e  Float
* E  Float
* F  Float
* F  Float
* g  Float
* G  Float
* i  Integer
* m  Error message
* n  Count
* o  Octal
* p  Pointer
* s  String
* S  Widechar string (wchar_t *)
* u  Unsigned
* x  Hex
* X  Hex
* [] Group
* <> User-defined
*
* Reserved:
*
* D  Binary Coded Decimal %D(length,precision) (OS/390)
```

```
*/
#define SPECIFIER_CHAR 'c'
#define SPECIFIER_STRING 's'
#define SPECIFIER_DECIMAL 'd'
#define SPECIFIER_INTEGER 'i'
#define SPECIFIER_UNSIGNED 'u'
#define SPECIFIER_OCTAL 'o'
#define SPECIFIER_HEX 'x'
#define SPECIFIER_HEX_UPPER 'X'
#define SPECIFIER_FLOAT_E 'e'
#define SPECIFIER_FLOAT_E_UPPER 'E'
#define SPECIFIER_FLOAT_F 'f'
#define SPECIFIER_FLOAT_F_UPPER 'F'
#define SPECIFIER_FLOAT_G 'g'
#define SPECIFIER_FLOAT_G_UPPER 'G'
#define SPECIFIER_POINTER 'p'
#define SPECIFIER_GROUP '['
#define SPECIFIER_UNGROUP ']'
#define SPECIFIER_COUNT 'n'
#if TRIO_UNIX98
# define SPECIFIER_CHAR_UPPER 'C'
# define SPECIFIER_STRING_UPPER 'S'
#endif
#if TRIO_C99
# define SPECIFIER_HEXFLOAT 'a'
# define SPECIFIER_HEXFLOAT_UPPER 'A'
#endif
#if TRIO_GNU
# define SPECIFIER_ERRNO 'm'
#endif
#if TRIO_EXTENSION
# define SPECIFIER_BINARY 'b'
# define SPECIFIER_BINARY_UPPER 'B'
# define SPECIFIER_USER_DEFINED_BEGIN '<'
# define SPECIFIER_USER_DEFINED_END '>'
# define SPECIFIER_USER_DEFINED_SEPARATOR ':'
#endif

/*
* QUALIFIERS:
*
*
* Numbers = d,i,o,u,x,X
* Float = a,A,e,E,f,F,g,G
* String = s
* Char = c
*
*
```

```
* 9$ Position
*      Use the 9th parameter. 9 can be any number between 1 and
*      the maximal argument
*
* 9 Width
*      Set width to 9. 9 can be any number, but must not be postfixed
*      by '$'
*
* h  Short
*    Numbers:
*      (unsigned) short int
*
* hh Short short
*    Numbers:
*      (unsigned) char
*
* l  Long
*    Numbers:
*      (unsigned) long int
*    String:
*      as the S specifier
*    Char:
*      as the C specifier
*
* ll Long Long
*    Numbers:
*      (unsigned) long long int
*
* L  Long Double
*    Float
*      long double
*
* #  Alternative
*    Float:
*      Decimal-point is always present
*    String:
*      non-printable characters are handled as \number
*
*    Spacing
*
* +  Sign
*
* -  Alignment
*
* .  Precision
*
* *  Parameter
*    print: use parameter
```

```
*    scan: no parameter (ignore)
*
* q  Quad
*
* Z  size_t
*
* w  Widechar
*
* '  Thousands/quote
*    Numbers:
*      Integer part grouped in thousands
*    Binary numbers:
*      Number grouped in nibbles (4 bits)
*    String:
*      Quoted string
*
* j  intmax_t
* t  prtdiff_t
* z  size_t
*
* !  Sticky
* @  Parameter (for both print and scan)
*
* I  n-bit Integer
*    Numbers:
*      The following options exists
*        I8  = 8-bit integer
*        I16 = 16-bit integer
*        I32 = 32-bit integer
*        I64 = 64-bit integer
*/
#define QUALIFIER_POSITION '$'
#define QUALIFIER_SHORT 'h'
#define QUALIFIER_LONG 'l'
#define QUALIFIER_LONG_UPPER 'L'
#define QUALIFIER_ALTERNATIVE '#'
#define QUALIFIER_SPACE ' '
#define QUALIFIER_PLUS '+'
#define QUALIFIER_MINUS '-'
#define QUALIFIER_DOT '.'
#define QUALIFIER_STAR '*'
#define QUALIFIER_CIRCUMFLEX '^' /* For scanlists */
#if TRIO_C99
# define QUALIFIER_SIZE_T 'z'
# define QUALIFIER_PTRDIFF_T 't'
# define QUALIFIER_INTMAX_T 'j'
#endif
#if TRIO_BSD || TRIO_GNU
```

```
# define QUALIFIER_QUAD 'q'
#endif
#if TRIO_GNU
# define QUALIFIER_SIZE_T_UPPER 'Z'
#endif
#if TRIO_MISC
# define QUALIFIER_WIDECHAR 'w'
#endif
#if TRIO_MICROSOFT
# define QUALIFIER_FIXED_SIZE 'I'
#endif
#if TRIO_EXTENSION
# define QUALIFIER_QUOTE '\"'
# define QUALIFIER_STICKY '!'
# define QUALIFIER_VARSIZE '&' /* This should remain undocumented */
# define QUALIFIER_PARAM '@' /* Experimental */
# define QUALIFIER_COLON ':' /* For scanlists */
# define QUALIFIER_EQUAL '=' /* For scanlists */
# define QUALIFIER_ROUNDING_UPPER 'R'
#endif


/*************************************************************************
*
* Internal Structures
*
*************************************************************************/

/* Parameters */
typedef struct {
 /* An indication of which entry in the data union is used */
 int type;
 /* The flags */
 trio_flags_t flags;
 /* The width qualifier */
 int width;
 /* The precision qualifier */
 int precision;
 /* The base qualifier */
 int base;
 /* The size for the variable size qualifier */
 int varsize;
 /* The marker of the end of the specifier */
 int indexAfterSpecifier;
 /* The data from the argument list */
 union {
   char *string;
#if TRIO_WIDECHAR
```

```
    trio_wchar_t *wstring;
#endif
    trio_pointer_t pointer;
    union {
      trio_intmax_t as_signed;
      trio_uintmax_t as_unsigned;
    } number;
    double doubleNumber;
    double *doublePointer;
    trio_long_double_t longdoubleNumber;
    trio_long_double_t *longdoublePointer;
    int errorNumber;
  } data;
  /* For the user-defined specifier */
  char user_name[MAX_USER_NAME];
  char user_data[MAX_USER_DATA];
} trio_parameter_t;

/* Container for customized functions */
typedef struct {
  union {
    trio_outstream_t out;
    trio_instream_t in;
  } stream;
  trio_pointer_t closure;
} trio_custom_t;

/* General trio "class" */
typedef struct _trio_class_t {
  /*
   * The function to write characters to a stream.
   */
  void (*OutStream) TRIO_PROTO((struct _trio_class_t *, int));
  /*
   * The function to read characters from a stream.
   */
  void (*InStream) TRIO_PROTO((struct _trio_class_t *, int *));
  /*
   * The current location in the stream.
   */
  trio_pointer_t location;
  /*
   * The character currently being processed.
   */
  int current;
  /*
   * The number of characters that would have been written/read
   * if there had been sufficient space.
```

```
 */
int processed;
/*
 * The number of characters that are actually written/read.
 * Processed and committed will only differ for the *nprintf
 * and *nscanf functions.
 */
int committed;
/*
 * The upper limit of characters that may be written/read.
 */
int max;
/*
 * The last output error that was detected.
 */
int error;
} trio_class_t;

/* References (for user-defined callbacks) */
typedef struct _trio_reference_t {
 trio_class_t *data;
 trio_parameter_t *parameter;
} trio_reference_t;

/* Registered entries (for user-defined callbacks) */
typedef struct _trio_userdef_t {
 struct _trio_userdef_t *next;
 trio_callback_t callback;
 char *name;
} trio_userdef_t;

/*************************************************************************
*
* Internal Variables
*
************************************************************************/

static TRIO_CONST char rcsid[] = "@(#)$Id$";

/*
* Need this to workaround a parser bug in HP C/iX compiler that fails
* to resolves macro definitions that includes type 'long double',
* e.g: va_arg(arg_ptr, long double)
*/
#if defined(TRIO_PLATFORM_MPEIX)
static TRIO_CONST trio_long_double_t ___dummy_long_double = 0;
#endif
```

```
static TRIO_CONST char internalNullString[] = "(nil)";

#if defined(USE_LOCALE)
static struct lconv *internalLocaleValues = NULL;
#endif

/*
* UNIX98 says "in a locale where the radix character is not defined,
* the radix character defaults to a period (.)"
*/
static int internalDecimalPointLength = 1;
static int internalThousandSeparatorLength = 1;
static char internalDecimalPoint = '.';
static char internalDecimalPointString[MAX_LOCALE_SEPARATOR_LENGTH + 1] = ".";
static char internalThousandSeparator[MAX_LOCALE_SEPARATOR_LENGTH + 1] = ",";
static char internalGrouping[MAX_LOCALE_GROUPS] = { (char)NO_GROUPING };

static TRIO_CONST char internalDigitsLower[] = "0123456789abcdefghijklmnopqrstuvwxyz";
static TRIO_CONST char internalDigitsUpper[] = "0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ";
static BOOLEAN_T internalDigitsUnconverted = TRUE;
static int internalDigitArray[128];
#if TRIO_EXTENSION
static BOOLEAN_T internalCollationUnconverted = TRUE;
static char internalCollationArray[MAX_CHARACTER_CLASS][MAX_CHARACTER_CLASS];
#endif

#if TRIO_EXTENSION
static TRIO_VOLATILE trio_callback_t internalEnterCriticalRegion = NULL;
static TRIO_VOLATILE trio_callback_t internalLeaveCriticalRegion = NULL;
static trio_userdef_t *internalUserDef = NULL;
#endif


/*************************************************************************
*
* Internal Functions
*
*************************************************************************/

#if defined(TRIO_MINIMAL)
# define TRIO_STRING_PUBLIC static
# include "triostr.c"
#endif /* defined(TRIO_MINIMAL) */

/*************************************************************************
* TrioIsQualifier
*
* Description:
```

```
* Remember to add all new qualifiers to this function.
* QUALIFIER_POSITION must not be added.
*/
TRIO_PRIVATE BOOLEAN_T
TrioIsQualifier
TRIO_ARGS1((character),
   TRIO_CONST char character)
{
 /* QUALIFIER_POSITION is not included */
 switch (character)
   {
   case '0': case '1': case '2': case '3': case '4':
   case '5': case '6': case '7': case '8': case '9':
   case QUALIFIER_PLUS:
   case QUALIFIER_MINUS:
   case QUALIFIER_SPACE:
   case QUALIFIER_DOT:
   case QUALIFIER_STAR:
   case QUALIFIER_ALTERNATIVE:
   case QUALIFIER_SHORT:
   case QUALIFIER_LONG:
   case QUALIFIER_LONG_UPPER:
   case QUALIFIER_CIRCUMFLEX:
#if defined(QUALIFIER_SIZE_T)
   case QUALIFIER_SIZE_T:
#endif
#if defined(QUALIFIER_PTRDIFF_T)
   case QUALIFIER_PTRDIFF_T:
#endif
#if defined(QUALIFIER_INTMAX_T)
   case QUALIFIER_INTMAX_T:
#endif
#if defined(QUALIFIER_QUAD)
   case QUALIFIER_QUAD:
#endif
#if defined(QUALIFIER_SIZE_T_UPPER)
   case QUALIFIER_SIZE_T_UPPER:
#endif
#if defined(QUALIFIER_WIDECHAR)
   case QUALIFIER_WIDECHAR:
#endif
#if defined(QUALIFIER_QUOTE)
   case QUALIFIER_QUOTE:
#endif
#if defined(QUALIFIER_STICKY)
   case QUALIFIER_STICKY:
#endif
#if defined(QUALIFIER_VARSIZE)
```

```
  case QUALIFIER_VARSIZE:
#endif
#if defined(QUALIFIER_PARAM)
  case QUALIFIER_PARAM:
#endif
#if defined(QUALIFIER_FIXED_SIZE)
  case QUALIFIER_FIXED_SIZE:
#endif
#if defined(QUALIFIER_ROUNDING_UPPER)
  case QUALIFIER_ROUNDING_UPPER:
#endif
    return TRUE;
  default:
    return FALSE;
  }
}

/*************************************************************************
* TrioSetLocale
*/
#if defined(USE_LOCALE)
TRIO_PRIVATE void
TrioSetLocale(TRIO_NOARGS)
{
 internalLocaleValues = (struct lconv *)localeconv();
 if (internalLocaleValues)
  {
   if ((internalLocaleValues->decimal_point) &&
  (internalLocaleValues->decimal_point[0] != NIL))
 {
  internalDecimalPointLength = trio_length(internalLocaleValues->decimal_point);
  if (internalDecimalPointLength == 1)
    {
     internalDecimalPoint = internalLocaleValues->decimal_point[0];
    }
  else
    {
     internalDecimalPoint = NIL;
     trio_copy_max(internalDecimalPointString,
     sizeof(internalDecimalPointString),
     internalLocaleValues->decimal_point);
    }
 }
   if ((internalLocaleValues->thousands_sep) &&
  (internalLocaleValues->thousands_sep[0] != NIL))
 {
  trio_copy_max(internalThousandSeparator,
  sizeof(internalThousandSeparator),
```

```
  internalLocaleValues->thousands_sep);
  internalThousandSeparatorLength = trio_length(internalThousandSeparator);
 }
    if ((internalLocaleValues->grouping) &&
  (internalLocaleValues->grouping[0] != NIL))
 {
  trio_copy_max(internalGrouping,
  sizeof(internalGrouping),
  internalLocaleValues->grouping);
 }
  }
}
#endif /* defined(USE_LOCALE) */

TRIO_PRIVATE int
TrioCalcThousandSeparatorLength
TRIO_ARGS1((digits),
   int digits)
{
#if TRIO_EXTENSION
 int count = 0;
 int step = NO_GROUPING;
 char *groupingPointer = internalGrouping;

 while (digits > 0)
  {
    if (*groupingPointer == CHAR_MAX)
 {
  /* Disable grouping */
  break; /* while */
 }
    else if (*groupingPointer == 0)
 {
  /* Repeat last group */
  if (step == NO_GROUPING)
    {
      /* Error in locale */
      break; /* while */
    }
 }
    else
 {
  step = *groupingPointer++;
 }
    if (digits > step)
 count += internalThousandSeparatorLength;
    digits -= step;
  }
```

```
 return count;
#else
 return 0;
#endif
}

TRIO_PRIVATE BOOLEAN_T
TrioFollowedBySeparator
TRIO_ARGS1((position),
    int position)
{
#if TRIO_EXTENSION
 int step = 0;
 char *groupingPointer = internalGrouping;

 position--;
 if (position == 0)
  return FALSE;
 while (position > 0)
  {
    if (*groupingPointer == CHAR_MAX)
 {
  /* Disable grouping */
  break; /* while */
 }
    else if (*groupingPointer != 0)
 {
  step = *groupingPointer++;
 }
    if (step == 0)
 break;
    position -= step;
  }
 return (position == 0);
#else
 return FALSE;
#endif
}

/*************************************************************************
* TrioGetPosition
*
* Get the %n$ position.
*/
TRIO_PRIVATE int
TrioGetPosition
TRIO_ARGS2((format, indexPointer),
    TRIO_CONST char *format,
```

```
    int *indexPointer)
{
#if TRIO_UNIX98
 char *tmpformat;
 int number = 0;
 int index = *indexPointer;

 number = (int)trio_to_long(&format[index], &tmpformat, BASE_DECIMAL);
 index = (int)(tmpformat - format);
 if ((number != 0) && (QUALIFIER_POSITION == format[index++]))
   {
     *indexPointer = index;
     /*
      * number is decreased by 1, because n$ starts from 1, whereas
      * the array it is indexing starts from 0.
      */
     return number - 1;
   }
#endif
 return NO_POSITION;
}

#if TRIO_EXTENSION
/*************************************************************************
* TrioFindNamespace
*
* Find registered user-defined specifier.
* The prev argument is used for optimization only.
*/
TRIO_PRIVATE trio_userdef_t *
TrioFindNamespace
TRIO_ARGS2((name, prev),
    TRIO_CONST char *name,
    trio_userdef_t **prev)
{
 trio_userdef_t *def;

 if (internalEnterCriticalRegion)
   (void)internalEnterCriticalRegion(NULL);

 for (def = internalUserDef; def; def = def->next)
   {
     /* Case-sensitive string comparison */
     if (trio_equal_case(def->name, name))
 break;

     if (prev)
 *prev = def;
```

```
  }

 if (internalLeaveCriticalRegion)
  (void)internalLeaveCriticalRegion(NULL);

 return def;
}
#endif

/*************************************************************************
* TrioPower
*
* Description:
*  Calculate pow(base, exponent), where number and exponent are integers.
*/
TRIO_PRIVATE trio_long_double_t
TrioPower
TRIO_ARGS2((number, exponent),
   int number,
   int exponent)
{
 trio_long_double_t result;

 if (number == 10)
  {
    switch (exponent)
 {
  /* Speed up calculation of common cases */
 case 0:
  result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E-1);
  break;
 case 1:
  result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+0);
  break;
 case 2:
  result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+1);
  break;
 case 3:
  result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+2);
  break;
 case 4:
  result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+3);
  break;
 case 5:
  result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+4);
  break;
 case 6:
  result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+5);
```

```
  break;
 case 7:
  result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+6);
  break;
 case 8:
  result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+7);
  break;
 case 9:
  result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+8);
  break;
 default:
  result = powl((trio_long_double_t)number,
  (trio_long_double_t)exponent);
  break;
 }
  }
 else
  {
   return powl((trio_long_double_t)number, (trio_long_double_t)exponent);
  }
 return result;
}

/*************************************************************************
* TrioLogarithm
*/
TRIO_PRIVATE double
TrioLogarithm
TRIO_ARGS2((number, base),
   double number,
   int base)
{
 double result;

 if (number <= 0.0)
  {
   /* xlC crashes on log(0) */
   result = (number == 0.0) ? trio_ninf() : trio_nan();
  }
 else
  {
   if (base == 10)
 {
  result = log10(number);
 }
    else
 {
  result = log10(number) / log10((double)base);
```

```
 }
  }
 return result;
}

/*************************************************************************
* TrioLogarithmBase
*/
TRIO_PRIVATE double
TrioLogarithmBase
TRIO_ARGS1((base),
   int base)
{
 switch (base)
  {
  case BASE_BINARY : return 1.0;
  case BASE_OCTAL  : return 3.0;
  case BASE_DECIMAL: return 3.321928094887362345;
  case BASE_HEX    : return 4.0;
  default          : return TrioLogarithm((double)base, 2);
  }
}

/*************************************************************************
* TrioParse
*
* Description:
*  Parse the format string
*/
TRIO_PRIVATE int
TrioParse
TRIO_ARGS5((type, format, parameters, arglist, argarray),
   int type,
   TRIO_CONST char *format,
   trio_parameter_t *parameters,
   va_list *arglist,
   trio_pointer_t *argarray)
{
 /* Count the number of times a parameter is referenced */
 unsigned short usedEntries[MAX_PARAMETERS];
 /* Parameter counters */
 int parameterPosition;
 int currentParam;
 int maxParam = -1;
 /* Utility variables */
 trio_flags_t flags;
 int width;
 int precision;
```

```
 int varsize;
 int base;
 int index;  /* Index into formatting string */
 int dots;  /* Count number of dots in modifier part */
 BOOLEAN_T positional;  /* Does the specifier have a positional? */
 BOOLEAN_T gotSticky = FALSE;  /* Are there any sticky modifiers at all? */
 /*
  * indices specifies the order in which the parameters must be
  * read from the va_args (this is necessary to handle positionals)
  */
 int indices[MAX_PARAMETERS];
 int pos = 0;
 /* Various variables */
 char ch;
#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
 int charlen;
#endif
 int save_errno;
 int i = -1;
 int num;
 char *tmpformat;

 /* One and only one of arglist and argarray must be used */
 assert((arglist != NULL) ^ (argarray != NULL));

 /*
  * The 'parameters' array is not initialized, but we need to
  * know which entries we have used.
  */
 memset(usedEntries, 0, sizeof(usedEntries));

 save_errno = errno;
 index = 0;
 parameterPosition = 0;
#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
 (void)mblen(NULL, 0);
#endif

 while (format[index])
   {
#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
    if (! isascii(format[index]))
 {
  /*
   * Multibyte characters cannot be legal specifiers or
   * modifiers, so we skip over them.
   */
  charlen = mblen(&format[index], MB_LEN_MAX);
```

```
  index += (charlen > 0) ? charlen : 1;
  continue; /* while */
 }
#endif /* TRIO_COMPILER_SUPPORTS_MULTIBYTE */
    if (CHAR_IDENTIFIER == format[index++])
 {
  if (CHAR_IDENTIFIER == format[index])
    {
      index++;
      continue; /* while */
    }

  flags = FLAGS_NEW;
  dots = 0;
  currentParam = TrioGetPosition(format, &index);
  positional = (NO_POSITION != currentParam);
  if (!positional)
    {
      /* We have no positional, get the next counter */
      currentParam = parameterPosition;
    }
       if(currentParam >= MAX_PARAMETERS)
    {
      /* Bail out completely to make the error more obvious */
      return TRIO_ERROR_RETURN(TRIO_ETOOMANY, index);
    }

  if (currentParam > maxParam)
    maxParam = currentParam;

  /* Default values */
  width = NO_WIDTH;
  precision = NO_PRECISION;
  base = NO_BASE;
  varsize = NO_SIZE;

  while (TrioIsQualifier(format[index]))
    {
      ch = format[index++];

      switch (ch)
 {
 case QUALIFIER_SPACE:
   flags |= FLAGS_SPACE;
   break;

 case QUALIFIER_PLUS:
   flags |= FLAGS_SHOWSIGN;
```

```
    break;

  case QUALIFIER_MINUS:
    flags |= FLAGS_LEFTADJUST;
    flags &= ~FLAGS_NILPADDING;
    break;

  case QUALIFIER_ALTERNATIVE:
    flags |= FLAGS_ALTERNATIVE;
    break;

  case QUALIFIER_DOT:
    if (dots == 0) /* Precision */
      {
        dots++;

        /* Skip if no precision */
        if (QUALIFIER_DOT == format[index])
   break;

        /* After the first dot we have the precision */
        flags |= FLAGS_PRECISION;
        if ((QUALIFIER_STAR == format[index])
#if defined(QUALIFIER_PARAM)
      || (QUALIFIER_PARAM == format[index])
#endif
      )
    {
      index++;
      flags |= FLAGS_PRECISION_PARAMETER;

      precision = TrioGetPosition(format, &index);
      if (precision == NO_POSITION)
        {
          parameterPosition++;
          if (positional)
    precision = parameterPosition;
          else
    {
      precision = currentParam;
      currentParam = precision + 1;
    }
        }
      else
        {
          if (! positional)
    currentParam = precision + 1;
          if (width > maxParam)
```

```
    maxParam = precision;
      }
     if (currentParam > maxParam)
       maxParam = currentParam;
    }
       else
    {
     precision = trio_to_long(&format[index],
         &tmpformat,
         BASE_DECIMAL);
     index = (int)(tmpformat - format);
    }
      }
    else if (dots == 1) /* Base */
      {
       dots++;

       /* After the second dot we have the base */
       flags |= FLAGS_BASE;
       if ((QUALIFIER_STAR == format[index])
#if defined(QUALIFIER_PARAM)
     || (QUALIFIER_PARAM == format[index])
#endif
     )
    {
     index++;
     flags |= FLAGS_BASE_PARAMETER;
     base = TrioGetPosition(format, &index);
     if (base == NO_POSITION)
       {
        parameterPosition++;
        if (positional)
    base = parameterPosition;
        else
    {
      base = currentParam;
      currentParam = base + 1;
    }
      }
     else
       {
        if (! positional)
    currentParam = base + 1;
        if (base > maxParam)
    maxParam = base;
      }
     if (currentParam > maxParam)
       maxParam = currentParam;
```

```
  }
      else
  {
   base = trio_to_long(&format[index],
         &tmpformat,
         BASE_DECIMAL);
   if (base > MAX_BASE)
     return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
   index = (int)(tmpformat - format);
  }
    }
   else
    {
     return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
    }
   break; /* QUALIFIER_DOT */

#if defined(QUALIFIER_PARAM)
  case QUALIFIER_PARAM:
   type = TYPE_PRINT;
   /* FALLTHROUGH */
#endif
  case QUALIFIER_STAR:
   /* This has different meanings for print and scan */
   if (TYPE_PRINT == type)
    {
     /* Read with from parameter */
     flags |= (FLAGS_WIDTH | FLAGS_WIDTH_PARAMETER);
     width = TrioGetPosition(format, &index);
     if (width == NO_POSITION)
  {
   parameterPosition++;
   if (positional)
     width = parameterPosition;
   else
     {
      width = currentParam;
      currentParam = width + 1;
     }
  }
      else
  {
   if (! positional)
     currentParam = width + 1;
   if (width > maxParam)
     maxParam = width;
  }
      if (currentParam > maxParam)
```

```
 maxParam = currentParam;
   }
 else
   {
    /* Scan, but do not store result */
    flags |= FLAGS_IGNORE;
   }

 break; /* QUALIFIER_STAR */

case '0':
 if (! (flags & FLAGS_LEFTADJUST))
   flags |= FLAGS_NILPADDING;
 /* FALLTHROUGH */
case '1': case '2': case '3': case '4':
case '5': case '6': case '7': case '8': case '9':
 flags |= FLAGS_WIDTH;
 /* &format[index - 1] is used to "rewind" the read
  * character from format
  */
 width = trio_to_long(&format[index - 1],
       &tmpformat,
       BASE_DECIMAL);
 index = (int)(tmpformat - format);
 break;

case QUALIFIER_SHORT:
 if (flags & FLAGS_SHORTSHORT)
   return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
 else if (flags & FLAGS_SHORT)
   flags |= FLAGS_SHORTSHORT;
 else
   flags |= FLAGS_SHORT;
 break;

case QUALIFIER_LONG:
 if (flags & FLAGS_QUAD)
   return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
 else if (flags & FLAGS_LONG)
   flags |= FLAGS_QUAD;
 else
   flags |= FLAGS_LONG;
 break;

case QUALIFIER_LONG_UPPER:
 flags |= FLAGS_LONGDOUBLE;
 break;
```

```
#if defined(QUALIFIER_SIZE_T)
  case QUALIFIER_SIZE_T:
    flags |= FLAGS_SIZE_T;
    /* Modify flags for later truncation of number */
    if (sizeof(size_t) == sizeof(trio_ulonglong_t))
      flags |= FLAGS_QUAD;
    else if (sizeof(size_t) == sizeof(long))
      flags |= FLAGS_LONG;
    break;
#endif

#if defined(QUALIFIER_PTRDIFF_T)
  case QUALIFIER_PTRDIFF_T:
    flags |= FLAGS_PTRDIFF_T;
    if (sizeof(ptrdiff_t) == sizeof(trio_ulonglong_t))
      flags |= FLAGS_QUAD;
    else if (sizeof(ptrdiff_t) == sizeof(long))
      flags |= FLAGS_LONG;
    break;
#endif

#if defined(QUALIFIER_INTMAX_T)
  case QUALIFIER_INTMAX_T:
    flags |= FLAGS_INTMAX_T;
    if (sizeof(trio_intmax_t) == sizeof(trio_ulonglong_t))
      flags |= FLAGS_QUAD;
    else if (sizeof(trio_intmax_t) == sizeof(long))
      flags |= FLAGS_LONG;
    break;
#endif

#if defined(QUALIFIER_QUAD)
  case QUALIFIER_QUAD:
    flags |= FLAGS_QUAD;
    break;
#endif

#if defined(QUALIFIER_FIXED_SIZE)
  case QUALIFIER_FIXED_SIZE:
    if (flags & FLAGS_FIXED_SIZE)
      return TRIO_ERROR_RETURN(TRIO_EINVAL, index);

    if (flags & (FLAGS_ALL_SIZES | FLAGS_LONGDOUBLE |
         FLAGS_WIDECHAR | FLAGS_VARSIZE_PARAMETER))
      return TRIO_ERROR_RETURN(TRIO_EINVAL, index);

    if ((format[index] == '6') &&
        (format[index + 1] == '4'))
```

```
      {
        varsize = sizeof(trio_int64_t);
        index += 2;
      }
    else if ((format[index] == '3') &&
     (format[index + 1] == '2'))
      {
        varsize = sizeof(trio_int32_t);
        index += 2;
      }
    else if ((format[index] == '1') &&
     (format[index + 1] == '6'))
      {
        varsize = sizeof(trio_int16_t);
        index += 2;
      }
    else if (format[index] == '8')
      {
        varsize = sizeof(trio_int8_t);
        index++;
      }
    else
      return TRIO_ERROR_RETURN(TRIO_EINVAL, index);

    flags |= FLAGS_FIXED_SIZE;
    break;
#endif

#if defined(QUALIFIER_WIDECHAR)
  case QUALIFIER_WIDECHAR:
    flags |= FLAGS_WIDECHAR;
    break;
#endif

#if defined(QUALIFIER_SIZE_T_UPPER)
  case QUALIFIER_SIZE_T_UPPER:
    break;
#endif

#if defined(QUALIFIER_QUOTE)
  case QUALIFIER_QUOTE:
    flags |= FLAGS_QUOTE;
    break;
#endif

#if defined(QUALIFIER_STICKY)
  case QUALIFIER_STICKY:
    flags |= FLAGS_STICKY;
```

```
    gotSticky = TRUE;
    break;
#endif

#if defined(QUALIFIER_VARSIZE)
  case QUALIFIER_VARSIZE:
    flags |= FLAGS_VARSIZE_PARAMETER;
    parameterPosition++;
    if (positional)
      varsize = parameterPosition;
    else
      {
       varsize = currentParam;
       currentParam = varsize + 1;
      }
    if (currentParam > maxParam)
      maxParam = currentParam;
    break;
#endif

#if defined(QUALIFIER_ROUNDING_UPPER)
  case QUALIFIER_ROUNDING_UPPER:
    flags |= FLAGS_ROUNDING;
    break;
#endif

  default:
    /* Bail out completely to make the error more obvious */
              return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
  }
    } /* while qualifier */

  /*
   * Parameters only need the type and value. The value is
   * read later.
   */
  if (flags & FLAGS_WIDTH_PARAMETER)
    {
      usedEntries[width] += 1;
      parameters[pos].type = FORMAT_PARAMETER;
      parameters[pos].flags = 0;
      indices[width] = pos;
      width = pos++;
    }
  if (flags & FLAGS_PRECISION_PARAMETER)
    {
      usedEntries[precision] += 1;
      parameters[pos].type = FORMAT_PARAMETER;
```

```
      parameters[pos].flags = 0;
      indices[precision] = pos;
      precision = pos++;
    }
  if (flags & FLAGS_BASE_PARAMETER)
    {
      usedEntries[base] += 1;
      parameters[pos].type = FORMAT_PARAMETER;
      parameters[pos].flags = 0;
      indices[base] = pos;
      base = pos++;
    }
  if (flags & FLAGS_VARSIZE_PARAMETER)
    {
      usedEntries[varsize] += 1;
      parameters[pos].type = FORMAT_PARAMETER;
      parameters[pos].flags = 0;
      indices[varsize] = pos;
      varsize = pos++;
    }

  indices[currentParam] = pos;

  switch (format[index++])
    {
#if defined(SPECIFIER_CHAR_UPPER)
    case SPECIFIER_CHAR_UPPER:
      flags |= FLAGS_WIDECHAR;
      /* FALLTHROUGH */
#endif
    case SPECIFIER_CHAR:
      if (flags & FLAGS_LONG)
  flags |= FLAGS_WIDECHAR;
      else if (flags & FLAGS_SHORT)
  flags &= ~FLAGS_WIDECHAR;
      parameters[pos].type = FORMAT_CHAR;
      break;

#if defined(SPECIFIER_STRING_UPPER)
    case SPECIFIER_STRING_UPPER:
      flags |= FLAGS_WIDECHAR;
      /* FALLTHROUGH */
#endif
    case SPECIFIER_STRING:
      if (flags & FLAGS_LONG)
  flags |= FLAGS_WIDECHAR;
      else if (flags & FLAGS_SHORT)
  flags &= ~FLAGS_WIDECHAR;
```

```
    parameters[pos].type = FORMAT_STRING;
    break;

  case SPECIFIER_GROUP:
    if (TYPE_SCAN == type)
{
  int depth = 1;
  parameters[pos].type = FORMAT_GROUP;
  if (format[index] == QUALIFIER_CIRCUMFLEX)
    index++;
  if (format[index] == SPECIFIER_UNGROUP)
    index++;
  if (format[index] == QUALIFIER_MINUS)
    index++;
  /* Skip nested brackets */
  while (format[index] != NIL)
    {
     if (format[index] == SPECIFIER_GROUP)
{
  depth++;
}
     else if (format[index] == SPECIFIER_UNGROUP)
{
  if (--depth <= 0)
    {
      index++;
      break;
    }
}
     index++;
    }
}
    break;

  case SPECIFIER_INTEGER:
    parameters[pos].type = FORMAT_INT;
    break;

  case SPECIFIER_UNSIGNED:
    flags |= FLAGS_UNSIGNED;
    parameters[pos].type = FORMAT_INT;
    break;

  case SPECIFIER_DECIMAL:
    /* Disable base modifier */
    flags &= ~FLAGS_BASE_PARAMETER;
    base = BASE_DECIMAL;
    parameters[pos].type = FORMAT_INT;
```

```
      break;

    case SPECIFIER_OCTAL:
      flags |= FLAGS_UNSIGNED;
      flags &= ~FLAGS_BASE_PARAMETER;
      base = BASE_OCTAL;
      parameters[pos].type = FORMAT_INT;
      break;

#if defined(SPECIFIER_BINARY)
    case SPECIFIER_BINARY_UPPER:
      flags |= FLAGS_UPPER;
      /* FALLTHROUGH */
    case SPECIFIER_BINARY:
      flags |= FLAGS_NILPADDING;
      flags &= ~FLAGS_BASE_PARAMETER;
      base = BASE_BINARY;
      parameters[pos].type = FORMAT_INT;
      break;
#endif

    case SPECIFIER_HEX_UPPER:
      flags |= FLAGS_UPPER;
      /* FALLTHROUGH */
    case SPECIFIER_HEX:
      flags |= FLAGS_UNSIGNED;
      flags &= ~FLAGS_BASE_PARAMETER;
      base = BASE_HEX;
      parameters[pos].type = FORMAT_INT;
      break;

    case SPECIFIER_FLOAT_E_UPPER:
      flags |= FLAGS_UPPER;
      /* FALLTHROUGH */
    case SPECIFIER_FLOAT_E:
      flags |= FLAGS_FLOAT_E;
      parameters[pos].type = FORMAT_DOUBLE;
      break;

    case SPECIFIER_FLOAT_G_UPPER:
      flags |= FLAGS_UPPER;
      /* FALLTHROUGH */
    case SPECIFIER_FLOAT_G:
      flags |= FLAGS_FLOAT_G;
      parameters[pos].type = FORMAT_DOUBLE;
      break;

    case SPECIFIER_FLOAT_F_UPPER:
```

```
      flags |= FLAGS_UPPER;
      /* FALLTHROUGH */
    case SPECIFIER_FLOAT_F:
      parameters[pos].type = FORMAT_DOUBLE;
      break;

    case SPECIFIER_POINTER:
      if (sizeof(trio_pointer_t) == sizeof(trio_ulonglong_t))
  flags |= FLAGS_QUAD;
      else if (sizeof(trio_pointer_t) == sizeof(long))
  flags |= FLAGS_LONG;
      parameters[pos].type = FORMAT_POINTER;
      break;

    case SPECIFIER_COUNT:
      parameters[pos].type = FORMAT_COUNT;
      break;

#if defined(SPECIFIER_HEXFLOAT)
# if defined(SPECIFIER_HEXFLOAT_UPPER)
    case SPECIFIER_HEXFLOAT_UPPER:
      flags |= FLAGS_UPPER;
      /* FALLTHROUGH */
# endif
    case SPECIFIER_HEXFLOAT:
      base = BASE_HEX;
      parameters[pos].type = FORMAT_DOUBLE;
      break;
#endif

#if defined(FORMAT_ERRNO)
    case SPECIFIER_ERRNO:
      parameters[pos].type = FORMAT_ERRNO;
      break;
#endif

#if defined(SPECIFIER_USER_DEFINED_BEGIN)
    case SPECIFIER_USER_DEFINED_BEGIN:
      {
  unsigned int max;
  int without_namespace = TRUE;

  parameters[pos].type = FORMAT_USER_DEFINED;
  parameters[pos].user_name[0] = NIL;
  tmpformat = (char *)&format[index];

  while ((ch = format[index]))
    {
```

```
      index++;
      if (ch == SPECIFIER_USER_DEFINED_END)
        {
    if (without_namespace)
     {
      /* We must get the handle first */
      parameters[pos].type = FORMAT_PARAMETER;
      parameters[pos].indexAfterSpecifier = index;
      parameters[pos].flags = FLAGS_USER_DEFINED;
      /* Adjust parameters for insertion of new one */
      pos++;
      usedEntries[currentParam] += 1;
      parameters[pos].type = FORMAT_USER_DEFINED;
      currentParam++;
      indices[currentParam] = pos;
      if (currentParam > maxParam)
        maxParam = currentParam;
     }
    /* Copy the user data */
    max = (unsigned int)(&format[index] - tmpformat);
    if (max > MAX_USER_DATA)
      max = MAX_USER_DATA;
    trio_copy_max(parameters[pos].user_data,
          max,
          tmpformat);
    break; /* while */
        }
      if (ch == SPECIFIER_USER_DEFINED_SEPARATOR)
        {
    without_namespace = FALSE;
    /* Copy the namespace for later looking-up */
    max = (int)(&format[index] - tmpformat);
    if (max > MAX_USER_NAME)
      max = MAX_USER_NAME;
    trio_copy_max(parameters[pos].user_name,
          max,
          tmpformat);
    tmpformat = (char *)&format[index];
        }
     }
    if (ch != SPECIFIER_USER_DEFINED_END)
     return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
        }
      break;
#endif /* defined(SPECIFIER_USER_DEFINED_BEGIN) */

    default:
      /* Bail out completely to make the error more obvious */
```

```
          return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
    }

  /*  Count the number of times this entry has been used */
  usedEntries[currentParam] += 1;

  /* Find last sticky parameters */
  if (gotSticky && !(flags & FLAGS_STICKY))
    {
      for (i = pos - 1; i >= 0; i--)
{
   if (parameters[i].type == FORMAT_PARAMETER)
     continue;
   if ((parameters[i].flags & FLAGS_STICKY) &&
       (parameters[i].type == parameters[pos].type))
     {
       /* Do not overwrite current qualifiers */
       flags |= (parameters[i].flags & (unsigned long)~FLAGS_STICKY);
       if (width == NO_WIDTH)
  width = parameters[i].width;
       if (precision == NO_PRECISION)
  precision = parameters[i].precision;
       if (base == NO_BASE)
  base = parameters[i].base;
       break;
     }
}
    }

  parameters[pos].indexAfterSpecifier = index;
  parameters[pos].flags = flags;
  parameters[pos].width = width;
  parameters[pos].precision = precision;
  parameters[pos].base = (base == NO_BASE) ? BASE_DECIMAL : base;
  parameters[pos].varsize = varsize;
  pos++;

  if (! positional)
    parameterPosition++;

} /* if identifier */

  } /* while format characters left */

for (num = 0; num <= maxParam; num++)
  {
    if (usedEntries[num] != 1)
{
```

```
  if (usedEntries[num] == 0) /* gap detected */
    return TRIO_ERROR_RETURN(TRIO_EGAP, num);
  else /* double references detected */
    return TRIO_ERROR_RETURN(TRIO_EDBLREF, num);
 }

    i = indices[num];

    /*
     * FORMAT_PARAMETERS are only present if they must be read,
     * so it makes no sense to check the ignore flag (besides,
     * the flags variable is not set for that particular type)
     */
    if ((parameters[i].type != FORMAT_PARAMETER) &&
   (parameters[i].flags & FLAGS_IGNORE))
  continue; /* for all arguments */

    /*
     * The stack arguments are read according to ANSI C89
     * default argument promotions:
     *
     *  char          = int
     *  short         = int
     *  unsigned char  = unsigned int
     *  unsigned short = unsigned int
     *  float         = double
     *
     * In addition to the ANSI C89 these types are read (the
     * default argument promotions of C99 has not been
     * considered yet)
     *
     *  long long
     *  long double
     *  size_t
     *  ptrdiff_t
     *  intmax_t
     */
    switch (parameters[i].type)
  {
  case FORMAT_GROUP:
  case FORMAT_STRING:
 #if TRIO_WIDECHAR
    if (flags & FLAGS_WIDECHAR)
      {
        parameters[i].data.wstring = (argarray == NULL)
   ? va_arg(*arglist, trio_wchar_t *)
   : (trio_wchar_t *)(argarray[num]);
      }
```

```
  else
#endif
    {
      parameters[i].data.string = (argarray == NULL)
 ? va_arg(*arglist, char *)
 : (char *)(argarray[num]);
    }
  break;

#if defined(FORMAT_USER_DEFINED)
 case FORMAT_USER_DEFINED:
#endif
 case FORMAT_POINTER:
 case FORMAT_COUNT:
 case FORMAT_UNKNOWN:
  parameters[i].data.pointer = (argarray == NULL)
    ? va_arg(*arglist, trio_pointer_t )
    : argarray[num];
  break;

 case FORMAT_CHAR:
 case FORMAT_INT:
  if (TYPE_SCAN == type)
    {
          if (argarray == NULL)
            parameters[i].data.pointer =
              (trio_pointer_t)va_arg(*arglist, trio_pointer_t);
          else
            {
              if (parameters[i].type == FORMAT_CHAR)
                parameters[i].data.pointer =
                  (trio_pointer_t)((char *)argarray[num]);
              else if (parameters[i].flags & FLAGS_SHORT)
                parameters[i].data.pointer =
                  (trio_pointer_t)((short *)argarray[num]);
              else
                parameters[i].data.pointer =
                  (trio_pointer_t)((int *)argarray[num]);
            }
    }
  else
    {
#if defined(QUALIFIER_VARSIZE) || defined(QUALIFIER_FIXED_SIZE)
      if (parameters[i].flags
   & (FLAGS_VARSIZE_PARAMETER | FLAGS_FIXED_SIZE))
  {
   if (parameters[i].flags & FLAGS_VARSIZE_PARAMETER)
     {
```

```
        /*
         * Variable sizes are mapped onto the fixed sizes, in
         * accordance with integer promotion.
         *
         * Please note that this may not be portable, as we
         * only guess the size, not the layout of the numbers.
         * For example, if int is little-endian, and long is
         * big-endian, then this will fail.
         */
        varsize = (int)parameters[parameters[i].varsize].data.number.as_unsigned;
      }
    else
      {
        /* Used for the I<bits> modifiers */
        varsize = parameters[i].varsize;
      }
    parameters[i].flags &= ~FLAGS_ALL_VARSIZES;

    if (varsize <= (int)sizeof(int))
      ;
    else if (varsize <= (int)sizeof(long))
      parameters[i].flags |= FLAGS_LONG;
#if defined(QUALIFIER_INTMAX_T)
    else if (varsize <= (int)sizeof(trio_longlong_t))
      parameters[i].flags |= FLAGS_QUAD;
    else
      parameters[i].flags |= FLAGS_INTMAX_T;
#else
    else
      parameters[i].flags |= FLAGS_QUAD;
#endif
  }
#endif /* defined(QUALIFIER_VARSIZE) */
#if defined(QUALIFIER_SIZE_T) || defined(QUALIFIER_SIZE_T_UPPER)
      if (parameters[i].flags & FLAGS_SIZE_T)
  parameters[i].data.number.as_unsigned = (argarray == NULL)
    ? (trio_uintmax_t)va_arg(*arglist, size_t)
    : (trio_uintmax_t)(*((size_t *)argarray[num]));
      else
#endif
#if defined(QUALIFIER_PTRDIFF_T)
      if (parameters[i].flags & FLAGS_PTRDIFF_T)
  parameters[i].data.number.as_unsigned = (argarray == NULL)
    ? (trio_uintmax_t)va_arg(*arglist, ptrdiff_t)
    : (trio_uintmax_t)(*((ptrdiff_t *)argarray[num]));
      else
#endif
#if defined(QUALIFIER_INTMAX_T)
```

```
      if (parameters[i].flags & FLAGS_INTMAX_T)
  parameters[i].data.number.as_unsigned = (argarray == NULL)
    ? (trio_uintmax_t)va_arg(*arglist, trio_intmax_t)
    : (trio_uintmax_t)(*((trio_intmax_t *)argarray[num]));
      else
#endif
      if (parameters[i].flags & FLAGS_QUAD)
  parameters[i].data.number.as_unsigned = (argarray == NULL)
    ? (trio_uintmax_t)va_arg(*arglist, trio_ulonglong_t)
    : (trio_uintmax_t)(*((trio_ulonglong_t *)argarray[num]));
      else if (parameters[i].flags & FLAGS_LONG)
  parameters[i].data.number.as_unsigned = (argarray == NULL)
    ? (trio_uintmax_t)va_arg(*arglist, long)
    : (trio_uintmax_t)(*((long *)argarray[num]));
      else
  {
    if (argarray == NULL)
      parameters[i].data.number.as_unsigned = (trio_uintmax_t)va_arg(*arglist, int);
    else
      {
        if (parameters[i].type == FORMAT_CHAR)
  parameters[i].data.number.as_unsigned = (trio_uintmax_t)(*((char *)argarray[num]));
        else if (parameters[i].flags & FLAGS_SHORT)
  parameters[i].data.number.as_unsigned = (trio_uintmax_t)(*((short *)argarray[num]));
        else
  parameters[i].data.number.as_unsigned = (trio_uintmax_t)(*((int *)argarray[num]));
      }
  }
    }
  break;

 case FORMAT_PARAMETER:
  /*
   * The parameter for the user-defined specifier is a pointer,
   * whereas the rest (width, precision, base) uses an integer.
   */
  if (parameters[i].flags & FLAGS_USER_DEFINED)
    parameters[i].data.pointer = (argarray == NULL)
      ? va_arg(*arglist, trio_pointer_t )
      : argarray[num];
  else
    parameters[i].data.number.as_unsigned = (argarray == NULL)
      ? (trio_uintmax_t)va_arg(*arglist, int)
      : (trio_uintmax_t)(*((int *)argarray[num]));
  break;

 case FORMAT_DOUBLE:
  if (TYPE_SCAN == type)
```

```
    {
      if (parameters[i].flags & FLAGS_LONGDOUBLE)
  parameters[i].data.longdoublePointer = (argarray == NULL)
   ? va_arg(*arglist, trio_long_double_t *)
   : (trio_long_double_t *)argarray[num];
      else
            {
   if (parameters[i].flags & FLAGS_LONG)
     parameters[i].data.doublePointer = (argarray == NULL)
       ? va_arg(*arglist, double *)
       : (double *)argarray[num];
   else
     parameters[i].data.doublePointer = (argarray == NULL)
       ? (double *)va_arg(*arglist, float *)
       : (double *)((float *)argarray[num]);
            }
    }
  else
    {
      if (parameters[i].flags & FLAGS_LONGDOUBLE)
  parameters[i].data.longdoubleNumber = (argarray == NULL)
   ? va_arg(*arglist, trio_long_double_t)
   : (trio_long_double_t)(*((trio_long_double_t *)argarray[num]));
      else
 {
   if (argarray == NULL)
     parameters[i].data.longdoubleNumber =
       (trio_long_double_t)va_arg(*arglist, double);
   else
     {
       if (parameters[i].flags & FLAGS_SHORT)
  parameters[i].data.longdoubleNumber =
    (trio_long_double_t)(*((float *)argarray[num]));
       else
  parameters[i].data.longdoubleNumber =
    (trio_long_double_t)(*((double *)argarray[num]));
     }
 }
    }
   break;

#if defined(FORMAT_ERRNO)
 case FORMAT_ERRNO:
   parameters[i].data.errorNumber = save_errno;
   break;
#endif

 default:
```

```
  break;
 }
  } /* for all specifiers */
 return num;
}


/*************************************************************************
*
* FORMATTING
*
*************************************************************************/


/*************************************************************************
* TrioWriteNumber
*
* Description:
*  Output a number.
*  The complexity of this function is a result of the complexity
*  of the dependencies of the flags.
*/
TRIO_PRIVATE void
TrioWriteNumber
TRIO_ARGS6((self, number, flags, width, precision, base),
   trio_class_t *self,
   trio_uintmax_t number,
   trio_flags_t flags,
   int width,
   int precision,
   int base)
{
 BOOLEAN_T isNegative;
 BOOLEAN_T isNumberZero;
 BOOLEAN_T isPrecisionZero;
 BOOLEAN_T ignoreNumber;
 char buffer[MAX_CHARS_IN(trio_uintmax_t) * (1 + MAX_LOCALE_SEPARATOR_LENGTH) + 1];
 char *bufferend;
 char *pointer;
 TRIO_CONST char *digits;
 int i;
 int length;
 char *p;
 int count;

 assert(VALID(self));
 assert(VALID(self->OutStream));
 assert(((base >= MIN_BASE) && (base <= MAX_BASE)) || (base == NO_BASE));
```

```
digits = (flags & FLAGS_UPPER) ? internalDigitsUpper : internalDigitsLower;
if (base == NO_BASE)
  base = BASE_DECIMAL;

isNumberZero = (number == 0);
isPrecisionZero = (precision == 0);
ignoreNumber = (isNumberZero
   && isPrecisionZero
   && !((flags & FLAGS_ALTERNATIVE) && (base == BASE_OCTAL)));

if (flags & FLAGS_UNSIGNED)
  {
    isNegative = FALSE;
    flags &= ~FLAGS_SHOWSIGN;
  }
else
  {
    isNegative = ((trio_intmax_t)number < 0);
    if (isNegative)
number = -((trio_intmax_t)number);
  }

if (flags & FLAGS_QUAD)
  number &= (trio_ulonglong_t)-1;
else if (flags & FLAGS_LONG)
  number &= (unsigned long)-1;
else
  number &= (unsigned int)-1;

/* Build number */
pointer = bufferend = &buffer[sizeof(buffer) - 1];
*pointer-- = NIL;
for (i = 1; i < (int)sizeof(buffer); i++)
  {
    *pointer-- = digits[number % base];
    number /= base;
    if (number == 0)
break;

    if ((flags & FLAGS_QUOTE) && TrioFollowedBySeparator(i + 1))
{
  /*
   * We are building the number from the least significant
   * to the most significant digit, so we have to copy the
   * thousand separator backwards
   */
  length = internalThousandSeparatorLength;
```

```
  if (((int)(pointer - buffer) - length) > 0)
    {
      p = &internalThousandSeparator[length - 1];
      while (length-- > 0)
 *pointer-- = *p--;
    }
}
  }

if (! ignoreNumber)
  {
    /* Adjust width */
    width -= (bufferend - pointer) - 1;
  }

/* Adjust precision */
if (NO_PRECISION != precision)
  {
    precision -= (bufferend - pointer) - 1;
    if (precision < 0)
precision = 0;
    flags |= FLAGS_NILPADDING;
  }

/* Calculate padding */
count = (! ((flags & FLAGS_LEFTADJUST) || (precision == NO_PRECISION)))
  ? precision
  : 0;

/* Adjust width further */
if (isNegative || (flags & FLAGS_SHOWSIGN) || (flags & FLAGS_SPACE))
  width--;
if ((flags & FLAGS_ALTERNATIVE) && !isNumberZero)
  {
    switch (base)
{
case BASE_BINARY:
case BASE_HEX:
  width -= 2;
  break;
case BASE_OCTAL:
  if (!(flags & FLAGS_NILPADDING) || (count == 0))
    width--;
  break;
default:
  break;
}
  }
```

```
/* Output prefixes spaces if needed */
if (! ((flags & FLAGS_LEFTADJUST) ||
 ((flags & FLAGS_NILPADDING) && (precision == NO_PRECISION))))
  {
    while (width-- > count)
self->OutStream(self, CHAR_ADJUST);
  }

/* width has been adjusted for signs and alternatives */
if (isNegative)
  self->OutStream(self, '-');
else if (flags & FLAGS_SHOWSIGN)
  self->OutStream(self, '+');
else if (flags & FLAGS_SPACE)
  self->OutStream(self, ' ');

/* Prefix is not written when the value is zero */
if ((flags & FLAGS_ALTERNATIVE) && !isNumberZero)
  {
    switch (base)
{
case BASE_BINARY:
  self->OutStream(self, '0');
  self->OutStream(self, (flags & FLAGS_UPPER) ? 'B' : 'b');
  break;

case BASE_OCTAL:
  if (!(flags & FLAGS_NILPADDING) || (count == 0))
    self->OutStream(self, '0');
  break;

case BASE_HEX:
  self->OutStream(self, '0');
  self->OutStream(self, (flags & FLAGS_UPPER) ? 'X' : 'x');
  break;

default:
  break;
} /* switch base */
  }

/* Output prefixed zero padding if needed */
if (flags & FLAGS_NILPADDING)
  {
    if (precision == NO_PRECISION)
precision = width;
    while (precision-- > 0)
```

```
{
  self->OutStream(self, '0');
  width--;
}
  }

if (! ignoreNumber)
  {
    /* Output the number itself */
    while (*(++pointer))
{
  self->OutStream(self, *pointer);
}
  }

/* Output trailing spaces if needed */
if (flags & FLAGS_LEFTADJUST)
  {
    while (width-- > 0)
self->OutStream(self, CHAR_ADJUST);
  }
}

/*************************************************************************
* TrioWriteStringCharacter
*
* Description:
*  Output a single character of a string
*/
TRIO_PRIVATE void
TrioWriteStringCharacter
TRIO_ARGS3((self, ch, flags),
   trio_class_t *self,
   int ch,
   trio_flags_t flags)
{
if (flags & FLAGS_ALTERNATIVE)
  {
    if (! isprint(ch))
{
  /*
   * Non-printable characters are converted to C escapes or
   * \number, if no C escape exists.
   */
  self->OutStream(self, CHAR_BACKSLASH);
  switch (ch)
    {
    case '\007': self->OutStream(self, 'a'); break;
```

```
    case '\b': self->OutStream(self, 'b'); break;
    case '\f': self->OutStream(self, 'f'); break;
    case '\n': self->OutStream(self, 'n'); break;
    case '\r': self->OutStream(self, 'r'); break;
    case '\t': self->OutStream(self, 't'); break;
    case '\v': self->OutStream(self, 'v'); break;
    case '\\': self->OutStream(self, '\\'); break;
    default:
      self->OutStream(self, 'x');
      TrioWriteNumber(self, (trio_uintmax_t)ch,
        FLAGS_UNSIGNED | FLAGS_NILPADDING,
        2, 2, BASE_HEX);
      break;
    }
  }
    else if (ch == CHAR_BACKSLASH)
  {
   self->OutStream(self, CHAR_BACKSLASH);
   self->OutStream(self, CHAR_BACKSLASH);
  }
    else
  {
   self->OutStream(self, ch);
  }
   }
  else
   {
    self->OutStream(self, ch);
   }
}

/*************************************************************************
* TrioWriteString
*
* Description:
*  Output a string
*/
TRIO_PRIVATE void
TrioWriteString
TRIO_ARGS5((self, string, flags, width, precision),
   trio_class_t *self,
   TRIO_CONST char *string,
   trio_flags_t flags,
   int width,
   int precision)
{
 int length;
 int ch;
```

```
assert(VALID(self));
assert(VALID(self->OutStream));

if (string == NULL)
  {
    string = internalNullString;
    length = sizeof(internalNullString) - 1;
    /* Disable quoting for the null pointer */
    flags &= (~FLAGS_QUOTE);
    width = 0;
  }
else
  {
    length = trio_length(string);
  }
if ((NO_PRECISION != precision) &&
    (precision < length))
  {
    length = precision;
  }
width -= length;

if (flags & FLAGS_QUOTE)
  self->OutStream(self, CHAR_QUOTE);

if (! (flags & FLAGS_LEFTADJUST))
  {
    while (width-- > 0)
self->OutStream(self, CHAR_ADJUST);
  }

while (length-- > 0)
  {
    /* The ctype parameters must be an unsigned char (or EOF) */
    ch = (int)((unsigned char)(*string++));
    TrioWriteStringCharacter(self, ch, flags);
  }

if (flags & FLAGS_LEFTADJUST)
  {
    while (width-- > 0)
self->OutStream(self, CHAR_ADJUST);
  }
if (flags & FLAGS_QUOTE)
  self->OutStream(self, CHAR_QUOTE);
}
```

```
/*************************************************************************
* TrioWriteWideStringCharacter
*
* Description:
*  Output a wide string as a multi-byte sequence
*/
#if TRIO_WIDECHAR
TRIO_PRIVATE int
TrioWriteWideStringCharacter
TRIO_ARGS4((self, wch, flags, width),
   trio_class_t *self,
   trio_wchar_t wch,
   trio_flags_t flags,
   int width)
{
 int size;
 int i;
 int ch;
 char *string;
 char buffer[MB_LEN_MAX + 1];

 if (width == NO_WIDTH)
  width = sizeof(buffer);

 size = wctomb(buffer, wch);
 if ((size <= 0) || (size > width) || (buffer[0] == NIL))
  return 0;

 string = buffer;
 i = size;
 while ((width >= i) && (width-- > 0) && (i-- > 0))
  {
   /* The ctype parameters must be an unsigned char (or EOF) */
   ch = (int)((unsigned char)(*string++));
   TrioWriteStringCharacter(self, ch, flags);
  }
 return size;
}
#endif /* TRIO_WIDECHAR */

/*************************************************************************
* TrioWriteWideString
*
* Description:
*  Output a wide character string as a multi-byte string
*/
#if TRIO_WIDECHAR
TRIO_PRIVATE void
```

```
TrioWriteWideString
TRIO_ARGS5((self, wstring, flags, width, precision),
   trio_class_t *self,
   TRIO_CONST trio_wchar_t *wstring,
   trio_flags_t flags,
   int width,
   int precision)
{
 int length;
 int size;

 assert(VALID(self));
 assert(VALID(self->OutStream));

#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
 (void)mblen(NULL, 0);
#endif

 if (wstring == NULL)
   {
    TrioWriteString(self, NULL, flags, width, precision);
    return;
   }

 if (NO_PRECISION == precision)
   {
    length = INT_MAX;
   }
 else
   {
    length = precision;
    width -= length;
   }

 if (flags & FLAGS_QUOTE)
  self->OutStream(self, CHAR_QUOTE);

 if (! (flags & FLAGS_LEFTADJUST))
   {
    while (width-- > 0)
 self->OutStream(self, CHAR_ADJUST);
   }

 while (length > 0)
   {
    size = TrioWriteWideStringCharacter(self, *wstring++, flags, length);
    if (size == 0)
 break; /* while */
```

```
    length -= size;
  }

 if (flags & FLAGS_LEFTADJUST)
  {
    while (width-- > 0)
 self->OutStream(self, CHAR_ADJUST);
  }
 if (flags & FLAGS_QUOTE)
  self->OutStream(self, CHAR_QUOTE);
}
#endif /* TRIO_WIDECHAR */

/*************************************************************************
* TrioWriteDouble
*
* http://wwwold.dkuug.dk/JTC1/SC22/WG14/www/docs/dr_211.htm
*
* "5.2.4.2.2 paragraph #4
*
*  The accuracy [...] is implementation defined, as is the accuracy
*  of the conversion between floating-point internal representations
*  and string representations performed by the libray routine in
*  <stdio.h>"
*/
/* FIXME: handle all instances of constant long-double number (L)
*   and *l() math functions.
*/
TRIO_PRIVATE void
TrioWriteDouble
TRIO_ARGS6((self, number, flags, width, precision, base),
   trio_class_t *self,
   trio_long_double_t number,
   trio_flags_t flags,
   int width,
   int precision,
   int base)
{
 trio_long_double_t integerNumber;
 trio_long_double_t fractionNumber;
 trio_long_double_t workNumber;
 int integerDigits;
 int fractionDigits;
 int exponentDigits;
 int baseDigits;
 int integerThreshold;
 int fractionThreshold;
 int expectedWidth;
```

```
int exponent = 0;
unsigned int uExponent = 0;
int exponentBase;
trio_long_double_t dblBase;
trio_long_double_t dblIntegerBase;
trio_long_double_t dblFractionBase;
trio_long_double_t integerAdjust;
trio_long_double_t fractionAdjust;
BOOLEAN_T isNegative;
BOOLEAN_T isExponentNegative = FALSE;
BOOLEAN_T requireTwoDigitExponent;
BOOLEAN_T isHex;
TRIO_CONST char *digits;
char *groupingPointer;
int i;
int index;
BOOLEAN_T hasOnlyZeroes;
int zeroes = 0;
register int trailingZeroes;
BOOLEAN_T keepTrailingZeroes;
BOOLEAN_T keepDecimalPoint;
trio_long_double_t epsilon;

assert(VALID(self));
assert(VALID(self->OutStream));
assert(((base >= MIN_BASE) && (base <= MAX_BASE)) || (base == NO_BASE));

/* Determine sign and look for special quantities */
switch (trio_fpclassify_and_signbit(number, &isNegative))
  {
  case TRIO_FP_NAN:
    TrioWriteString(self,
      (flags & FLAGS_UPPER)
      ? NAN_UPPER
      : NAN_LOWER,
      flags, width, precision);
    return;

  case TRIO_FP_INFINITE:
    if (isNegative)
{
  /* Negative infinity */
  TrioWriteString(self,
    (flags & FLAGS_UPPER)
    ? "-" INFINITE_UPPER
    : "-" INFINITE_LOWER,
    flags, width, precision);
  return;
```

```
}
   else
{
 /* Positive infinity */
 TrioWriteString(self,
   (flags & FLAGS_UPPER)
   ? INFINITE_UPPER
   : INFINITE_LOWER,
   flags, width, precision);
 return;
}

 default:
   /* Finitude */
   break;
 }

/* Normal numbers */
if (flags & FLAGS_LONGDOUBLE)
 {
   baseDigits = (base == 10)
? LDBL_DIG
: (int)floor(LDBL_MANT_DIG / TrioLogarithmBase(base));
   epsilon = LDBL_EPSILON;
 }
else if (flags & FLAGS_SHORT)
 {
   baseDigits = (base == BASE_DECIMAL)
? FLT_DIG
: (int)floor(FLT_MANT_DIG / TrioLogarithmBase(base));
   epsilon = FLT_EPSILON;
 }
else
 {
   baseDigits = (base == BASE_DECIMAL)
? DBL_DIG
: (int)floor(DBL_MANT_DIG / TrioLogarithmBase(base));
   epsilon = DBL_EPSILON;
 }

digits = (flags & FLAGS_UPPER) ? internalDigitsUpper : internalDigitsLower;
isHex = (base == BASE_HEX);
if (base == NO_BASE)
 base = BASE_DECIMAL;
dblBase = (trio_long_double_t)base;
keepTrailingZeroes = !( (flags & FLAGS_ROUNDING) ||
   ( (flags & FLAGS_FLOAT_G) &&
     !(flags & FLAGS_ALTERNATIVE) ) );
```

```
if (flags & FLAGS_ROUNDING)
  precision = baseDigits;

if (precision == NO_PRECISION)
  {
    if (isHex)
{
  keepTrailingZeroes = FALSE;
  precision = FLT_MANT_DIG;
}
    else
{
  precision = FLT_DIG;
}
  }

if (isNegative)
  number = -number;

if (isHex)
  flags |= FLAGS_FLOAT_E;

if (flags & FLAGS_FLOAT_G)
  {
    if (precision == 0)
precision = 1;

    if ((number < 1.0E-4) || (number > powl(base,
         (trio_long_double_t)precision)))
{
  /* Use scientific notation */
  flags |= FLAGS_FLOAT_E;
}
    else if (number < 1.0)
{
  /*
   * Use normal notation. If the integer part of the number is
   * zero, then adjust the precision to include leading fractional
   * zeros.
   */
  workNumber = TrioLogarithm(number, base);
  workNumber = TRIO_FABS(workNumber);
  if (workNumber - floorl(workNumber) < 0.001)
    workNumber--;
  zeroes = (int)floorl(workNumber);
}
  }
```

```
if (flags & FLAGS_FLOAT_E)
  {
    /* Scale the number */
    workNumber = TrioLogarithm(number, base);
    if (trio_isinf(workNumber) == -1)
{
  exponent = 0;
  /* Undo setting */
  if (flags & FLAGS_FLOAT_G)
    flags &= ~FLAGS_FLOAT_E;
}
    else
{
  exponent = (int)floorl(workNumber);
  number /= powl(dblBase, (trio_long_double_t)exponent);
  isExponentNegative = (exponent < 0);
  uExponent = (isExponentNegative) ? -exponent : exponent;
  if (isHex)
    uExponent *= 4; /* log16(2) */
  /* No thousand separators */
  flags &= ~FLAGS_QUOTE;
}
  }

integerNumber = floorl(number);
fractionNumber = number - integerNumber;

/*
 * Truncated number.
 *
 * Precision is number of significant digits for FLOAT_G
 * and number of fractional digits for others.
 */
integerDigits = (integerNumber > epsilon)
  ? 1 + (int)TrioLogarithm(integerNumber, base)
  : 1;
fractionDigits = ((flags & FLAGS_FLOAT_G) && (zeroes == 0))
  ? precision - integerDigits
  : zeroes + precision;

dblFractionBase = TrioPower(base, fractionDigits);

workNumber = number + 0.5 / dblFractionBase;
if (floorl(number) != floorl(workNumber))
  {
    if (flags & FLAGS_FLOAT_E)
{
```

```
  /* Adjust if number was rounded up one digit (ie. 0.99 to 1.00) */
  exponent++;
  isExponentNegative = (exponent < 0);
  uExponent = (isExponentNegative) ? -exponent : exponent;
  if (isHex)
    uExponent *= 4; /* log16(2) */
  workNumber = (number + 0.5 / dblFractionBase) / dblBase;
  integerNumber = floorl(workNumber);
  fractionNumber = workNumber - integerNumber;
}
    else
{
  /* Adjust if number was rounded up one digit (ie. 99 to 100) */
  integerNumber = floorl(number + 0.5);
  fractionNumber = 0.0;
  integerDigits = (integerNumber > epsilon)
    ? 1 + (int)TrioLogarithm(integerNumber, base)
    : 1;
}
  }

/* Estimate accuracy */
integerAdjust = fractionAdjust = 0.5;
if (flags & FLAGS_ROUNDING)
  {
    if (integerDigits > baseDigits)
{
  integerThreshold = baseDigits;
  fractionDigits = 0;
  dblFractionBase = 1.0;
  fractionThreshold = 0;
  precision = 0; /* Disable decimal-point */
  integerAdjust = TrioPower(base, integerDigits - integerThreshold - 1);
  fractionAdjust = 0.0;
}
    else
{
  integerThreshold = integerDigits;
  fractionThreshold = fractionDigits - integerThreshold;
  fractionAdjust = 1.0;
}
  }
else
  {
    integerThreshold = INT_MAX;
    fractionThreshold = INT_MAX;
  }
```

```
/*
 * Calculate expected width.
 *  sign + integer part + thousands separators + decimal point
 *  + fraction + exponent
 */
fractionAdjust /= dblFractionBase;
hasOnlyZeroes = (floorl((fractionNumber + fractionAdjust) * dblFractionBase) < epsilon);
keepDecimalPoint = ( (flags & FLAGS_ALTERNATIVE) ||
       !((precision == 0) ||
  (!keepTrailingZeroes && hasOnlyZeroes)) );
if (flags & FLAGS_FLOAT_E)
  {
    exponentDigits = (uExponent == 0)
? 1
: (int)ceil(TrioLogarithm((double)(uExponent + 1),
     (isHex) ? 10.0 : base));
  }
else
  exponentDigits = 0;
requireTwoDigitExponent = ((base == BASE_DECIMAL) && (exponentDigits == 1));

expectedWidth = integerDigits + fractionDigits
  + (keepDecimalPoint
     ? internalDecimalPointLength
     : 0)
  + ((flags & FLAGS_QUOTE)
     ? TrioCalcThousandSeparatorLength(integerDigits)
     : 0);
if (isNegative || (flags & FLAGS_SHOWSIGN) || (flags & FLAGS_SPACE))
  expectedWidth += sizeof("-") - 1;
if (exponentDigits > 0)
  expectedWidth += exponentDigits +
    ((requireTwoDigitExponent ? sizeof("E+0") : sizeof("E+")) - 1);
if (isHex)
  expectedWidth += sizeof("0X") - 1;

/* Output prefixing */
if (flags & FLAGS_NILPADDING)
  {
    /* Leading zeros must be after sign */
    if (isNegative)
self->OutStream(self, '-');
    else if (flags & FLAGS_SHOWSIGN)
self->OutStream(self, '+');
    else if (flags & FLAGS_SPACE)
self->OutStream(self, ' ');
    if (isHex)
{
```

```
  self->OutStream(self, '0');
  self->OutStream(self, (flags & FLAGS_UPPER) ? 'X' : 'x');
}
    if (!(flags & FLAGS_LEFTADJUST))
{
  for (i = expectedWidth; i < width; i++)
    {
      self->OutStream(self, '0');
    }
}
  }
else
  {
    /* Leading spaces must be before sign */
    if (!(flags & FLAGS_LEFTADJUST))
{
  for (i = expectedWidth; i < width; i++)
    {
      self->OutStream(self, CHAR_ADJUST);
    }
}
    if (isNegative)
self->OutStream(self, '-');
    else if (flags & FLAGS_SHOWSIGN)
self->OutStream(self, '+');
    else if (flags & FLAGS_SPACE)
self->OutStream(self, ' ');
    if (isHex)
{
  self->OutStream(self, '0');
  self->OutStream(self, (flags & FLAGS_UPPER) ? 'X' : 'x');
}
  }

/* Output the integer part and thousand separators */
dblIntegerBase = 1.0 / TrioPower(base, integerDigits - 1);
for (i = 0; i < integerDigits; i++)
  {
    workNumber = floorl(((integerNumber + integerAdjust) * dblIntegerBase));
    if (i > integerThreshold)
{
  /* Beyond accuracy */
  self->OutStream(self, digits[0]);
}
    else
{
  self->OutStream(self, digits[(int)fmodl(workNumber, dblBase)]);
}
```

```
    dblIntegerBase *= dblBase;

    if (((flags & (FLAGS_FLOAT_E | FLAGS_QUOTE)) == FLAGS_QUOTE)
  && TrioFollowedBySeparator(integerDigits - i))
{
  for (groupingPointer = internalThousandSeparator;
       *groupingPointer != NIL;
       groupingPointer++)
    {
      self->OutStream(self, *groupingPointer);
    }
}
  }

/* Insert decimal point and build the fraction part */
trailingZeroes = 0;

if (keepDecimalPoint)
  {
    if (internalDecimalPoint)
{
  self->OutStream(self, internalDecimalPoint);
}
    else
{
  for (i = 0; i < internalDecimalPointLength; i++)
    {
      self->OutStream(self, internalDecimalPointString[i]);
    }
}
  }

for (i = 0; i < fractionDigits; i++)
  {
    if ((integerDigits > integerThreshold) || (i > fractionThreshold))
{
  /* Beyond accuracy */
  trailingZeroes++;
}
    else
{
  fractionNumber *= dblBase;
  fractionAdjust *= dblBase;
  workNumber = floorl(fractionNumber + fractionAdjust);
  fractionNumber -= workNumber;
  index = (int)fmodl(workNumber, dblBase);
  if (index == 0)
    {
```

```
      trailingZeroes++;
    }
  else
    {
      while (trailingZeroes > 0)
 {
   /* Not trailing zeroes after all */
   self->OutStream(self, digits[0]);
   trailingZeroes--;
 }
      self->OutStream(self, digits[index]);
    }
}
  }

if (keepTrailingZeroes)
  {
    while (trailingZeroes > 0)
{
  self->OutStream(self, digits[0]);
  trailingZeroes--;
}
  }

/* Output exponent */
if (exponentDigits > 0)
  {
    self->OutStream(self,
       isHex
       ? ((flags & FLAGS_UPPER) ? 'P' : 'p')
       : ((flags & FLAGS_UPPER) ? 'E' : 'e'));
    self->OutStream(self, (isExponentNegative) ? '-' : '+');

    /* The exponent must contain at least two digits */
    if (requireTwoDigitExponent)
      self->OutStream(self, '0');

    if (isHex)
base = 10.0;
    exponentBase = (int)TrioPower(base, exponentDigits - 1);
    for (i = 0; i < exponentDigits; i++)
{
  self->OutStream(self, digits[(uExponent / exponentBase) % base]);
  exponentBase /= base;
}
  }
/* Output trailing spaces */
if (flags & FLAGS_LEFTADJUST)
```

```
  {
    for (i = expectedWidth; i < width; i++)
 {
  self->OutStream(self, CHAR_ADJUST);
 }
  }
}

/*************************************************************************
* TrioFormatProcess
*
* Description:
*  This is the main engine for formatting output
*/
TRIO_PRIVATE int
TrioFormatProcess
TRIO_ARGS3((data, format, parameters),
   trio_class_t *data,
   TRIO_CONST char *format,
   trio_parameter_t *parameters)
{
#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
 int charlen;
#endif
 int i;
 TRIO_CONST char *string;
 trio_pointer_t pointer;
 trio_flags_t flags;
 int width;
 int precision;
 int base;
 int index;

 index = 0;
 i = 0;
#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
 (void)mblen(NULL, 0);
#endif

 while (format[index])
  {
#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
    if (! isascii(format[index]))
 {
  charlen = mblen(&format[index], MB_LEN_MAX);
  /*
   * Only valid multibyte characters are handled here. Invalid
   * multibyte characters (charlen == -1) are handled as normal
```

```
   * characters.
   */
  if (charlen != -1)
    {
      while (charlen-- > 0)
  {
   data->OutStream(data, format[index++]);
  }
      continue; /* while characters left in formatting string */
    }
 }
#endif /* TRIO_COMPILER_SUPPORTS_MULTIBYTE */
     if (CHAR_IDENTIFIER == format[index])
 {
  if (CHAR_IDENTIFIER == format[index + 1])
    {
      data->OutStream(data, CHAR_IDENTIFIER);
      index += 2;
    }
  else
    {
      /* Skip the parameter entries */
      while (parameters[i].type == FORMAT_PARAMETER)
 i++;

      flags = parameters[i].flags;

      /* Find width */
      width = parameters[i].width;
      if (flags & FLAGS_WIDTH_PARAMETER)
 {
   /* Get width from parameter list */
   width = (int)parameters[width].data.number.as_signed;
   if (width < 0)
     {
       /*
        * A negative width is the same as the - flag and
        * a positive width.
        */
       flags |= FLAGS_LEFTADJUST;
       flags &= ~FLAGS_NILPADDING;
       width = -width;
     }
 }

      /* Find precision */
      if (flags & FLAGS_PRECISION)
 {
```

```
  precision = parameters[i].precision;
  if (flags & FLAGS_PRECISION_PARAMETER)
    {
     /* Get precision from parameter list */
     precision = (int)parameters[precision].data.number.as_signed;
     if (precision < 0)
 {
  /*
   * A negative precision is the same as no
   * precision
   */
  precision = NO_PRECISION;
 }
    }
}
    else
{
 precision = NO_PRECISION;
}

    /* Find base */
    base = parameters[i].base;
    if (flags & FLAGS_BASE_PARAMETER)
{
 /* Get base from parameter list */
 base = (int)parameters[base].data.number.as_signed;
}

    switch (parameters[i].type)
{
case FORMAT_CHAR:
 if (flags & FLAGS_QUOTE)
   data->OutStream(data, CHAR_QUOTE);
 if (! (flags & FLAGS_LEFTADJUST))
   {
    while (--width > 0)
 data->OutStream(data, CHAR_ADJUST);
   }
#if TRIO_WIDECHAR
  if (flags & FLAGS_WIDECHAR)
   {
    TrioWriteWideStringCharacter(data,
     (trio_wchar_t)parameters[i].data.number.as_signed,
     flags,
     NO_WIDTH);
   }
  else
#endif
```

```
      {
       TrioWriteStringCharacter(data,
          (int)parameters[i].data.number.as_signed,
          flags);
      }

    if (flags & FLAGS_LEFTADJUST)
      {
       while(--width > 0)
   data->OutStream(data, CHAR_ADJUST);
      }
    if (flags & FLAGS_QUOTE)
      data->OutStream(data, CHAR_QUOTE);

    break; /* FORMAT_CHAR */

   case FORMAT_INT:
    TrioWriteNumber(data,
      parameters[i].data.number.as_unsigned,
      flags,
      width,
      precision,
      base);

    break; /* FORMAT_INT */

   case FORMAT_DOUBLE:
    TrioWriteDouble(data,
      parameters[i].data.longdoubleNumber,
      flags,
      width,
      precision,
      base);
    break; /* FORMAT_DOUBLE */

   case FORMAT_STRING:
#if TRIO_WIDECHAR
    if (flags & FLAGS_WIDECHAR)
      {
       TrioWriteWideString(data,
       parameters[i].data.wstring,
       flags,
       width,
       precision);
      }
    else
#endif
      {
```

```
        TrioWriteString(data,
          parameters[i].data.string,
          flags,
          width,
          precision);
      }
    break; /* FORMAT_STRING */

  case FORMAT_POINTER:
    {
      trio_reference_t reference;

      reference.data = data;
      reference.parameter = &parameters[i];
      trio_print_pointer(&reference, parameters[i].data.pointer);
    }
    break; /* FORMAT_POINTER */

  case FORMAT_COUNT:
    pointer = parameters[i].data.pointer;
    if (NULL != pointer)
      {
        /*
         * C99 paragraph 7.19.6.1.8 says "the number of
         * characters written to the output stream so far by
         * this call", which is data->committed
         */
#if defined(QUALIFIER_SIZE_T) || defined(QUALIFIER_SIZE_T_UPPER)
        if (flags & FLAGS_SIZE_T)
    *(size_t *)pointer = (size_t)data->committed;
        else
#endif
#if defined(QUALIFIER_PTRDIFF_T)
        if (flags & FLAGS_PTRDIFF_T)
    *(ptrdiff_t *)pointer = (ptrdiff_t)data->committed;
        else
#endif
#if defined(QUALIFIER_INTMAX_T)
        if (flags & FLAGS_INTMAX_T)
    *(trio_intmax_t *)pointer = (trio_intmax_t)data->committed;
        else
#endif
        if (flags & FLAGS_QUAD)
    {
      *(trio_ulonglong_t *)pointer = (trio_ulonglong_t)data->committed;
    }
        else if (flags & FLAGS_LONG)
    {
```

```
    *(long int *)pointer = (long int)data->committed;
  }
      else if (flags & FLAGS_SHORT)
  {
   *(short int *)pointer = (short int)data->committed;
  }
      else
  {
   *(int *)pointer = (int)data->committed;
  }
    }
  break; /* FORMAT_COUNT */

 case FORMAT_PARAMETER:
  break; /* FORMAT_PARAMETER */

#if defined(FORMAT_ERRNO)
 case FORMAT_ERRNO:
  string = trio_error(parameters[i].data.errorNumber);
  if (string)
    {
     TrioWriteString(data,
       string,
       flags,
       width,
       precision);
    }
  else
    {
     data->OutStream(data, '#');
     TrioWriteNumber(data,
       (trio_uintmax_t)parameters[i].data.errorNumber,
       flags,
       width,
       precision,
       BASE_DECIMAL);
    }
  break; /* FORMAT_ERRNO */
#endif /* defined(FORMAT_ERRNO) */

#if defined(FORMAT_USER_DEFINED)
 case FORMAT_USER_DEFINED:
  {
    trio_reference_t reference;
    trio_userdef_t *def = NULL;

    if (parameters[i].user_name[0] == NIL)
      {
```

```
  /* Use handle */
  if ((i > 0) ||
      (parameters[i - 1].type == FORMAT_PARAMETER))
    def = (trio_userdef_t *)parameters[i - 1].data.pointer;
       }
     else
       {
  /* Look up namespace */
  def = TrioFindNamespace(parameters[i].user_name, NULL);
       }
     if (def) {
       reference.data = data;
       reference.parameter = &parameters[i];
       def->callback(&reference);
     }
   }
   break;
#endif /* defined(FORMAT_USER_DEFINED) */

 default:
   break;
 } /* switch parameter type */

      /* Prepare for next */
      index = parameters[i].indexAfterSpecifier;
      i++;
    }
 }
    else /* not identifier */
 {
  data->OutStream(data, format[index++]);
 }
  }
 return data->processed;
}

/*************************************************************************
* TrioFormatRef
*/
TRIO_PRIVATE int
TrioFormatRef
TRIO_ARGS4((reference, format, arglist, argarray),
   trio_reference_t *reference,
   TRIO_CONST char *format,
   va_list *arglist,
   trio_pointer_t *argarray)
{
 int status;
```

```
 trio_parameter_t parameters[MAX_PARAMETERS];

 status = TrioParse(TYPE_PRINT, format, parameters, arglist, argarray);
 if (status < 0)
   return status;

 status = TrioFormatProcess(reference->data, format, parameters);
 if (reference->data->error != 0)
   {
     status = reference->data->error;
   }
 return status;
}

/*************************************************************************
* TrioFormat
*/
TRIO_PRIVATE int
TrioFormat
TRIO_ARGS6((destination, destinationSize, OutStream, format, arglist, argarray),
    trio_pointer_t destination,
    size_t destinationSize,
    void (*OutStream) TRIO_PROTO((trio_class_t *, int)),
    TRIO_CONST char *format,
    va_list *arglist,
    trio_pointer_t *argarray)
{
 int status;
 trio_class_t data;
 trio_parameter_t parameters[MAX_PARAMETERS];

 assert(VALID(OutStream));
 assert(VALID(format));

 memset(&data, 0, sizeof(data));
 data.OutStream = OutStream;
 data.location = destination;
 data.max = destinationSize;
 data.error = 0;

#if defined(USE_LOCALE)
 if (NULL == internalLocaleValues)
   {
     TrioSetLocale();
   }
#endif

 status = TrioParse(TYPE_PRINT, format, parameters, arglist, argarray);
```

```
 if (status < 0)
   return status;

 status = TrioFormatProcess(&data, format, parameters);
 if (data.error != 0)
   {
     status = data.error;
   }
 return status;
}

/*************************************************************************
* TrioOutStreamFile
*/
TRIO_PRIVATE void
TrioOutStreamFile
TRIO_ARGS2((self, output),
    trio_class_t *self,
    int output)
{
 FILE *file;

 assert(VALID(self));
 assert(VALID(self->location));

 file = (FILE *)self->location;
 self->processed++;
 if (fputc(output, file) == EOF)
   {
     self->error = TRIO_ERROR_RETURN(TRIO_EOF, 0);
   }
 else
   {
     self->committed++;
   }
}

/*************************************************************************
* TrioOutStreamFileDescriptor
*/
TRIO_PRIVATE void
TrioOutStreamFileDescriptor
TRIO_ARGS2((self, output),
    trio_class_t *self,
    int output)
{
 int fd;
 char ch;
```

```
  assert(VALID(self));

  fd = *((int *)self->location);
  ch = (char)output;
  self->processed++;
  if (write(fd, &ch, sizeof(char)) == -1)
    {
      self->error = TRIO_ERROR_RETURN(TRIO_ERRNO, 0);
    }
  else
    {
      self->committed++;
    }
}

/*************************************************************************
* TrioOutStreamCustom
*/
TRIO_PRIVATE void
TrioOutStreamCustom
TRIO_ARGS2((self, output),
     trio_class_t *self,
     int output)
{
  int status;
  trio_custom_t *data;

  assert(VALID(self));
  assert(VALID(self->location));

  data = (trio_custom_t *)self->location;
  if (data->stream.out)
    {
      status = (data->stream.out)(data->closure, output);
      if (status >= 0)
  {
    self->committed++;
  }
      else
  {
    if (self->error == 0)
      {
        self->error = TRIO_ERROR_RETURN(TRIO_ECUSTOM, -status);
      }
  }
    }
  self->processed++;
```

```
}

/*************************************************************************
* TrioOutStreamString
*/
TRIO_PRIVATE void
TrioOutStreamString
TRIO_ARGS2((self, output),
   trio_class_t *self,
   int output)
{
 char **buffer;

 assert(VALID(self));
 assert(VALID(self->location));

 buffer = (char **)self->location;
 **buffer = (char)output;
 (*buffer)++;
 self->processed++;
 self->committed++;
}

/*************************************************************************
* TrioOutStreamStringMax
*/
TRIO_PRIVATE void
TrioOutStreamStringMax
TRIO_ARGS2((self, output),
   trio_class_t *self,
   int output)
{
 char **buffer;

 assert(VALID(self));
 assert(VALID(self->location));

 buffer = (char **)self->location;

 if (self->processed < self->max)
   {
    **buffer = (char)output;
    (*buffer)++;
    self->committed++;
   }
 self->processed++;
}
```

```
/*************************************************************************
* TrioOutStreamStringDynamic
*/
TRIO_PRIVATE void
TrioOutStreamStringDynamic
TRIO_ARGS2((self, output),
   trio_class_t *self,
   int output)
{
 assert(VALID(self));
 assert(VALID(self->location));

 if (self->error == 0)
   {
    trio_xstring_append_char((trio_string_t *)self->location,
        (char)output);
    self->committed++;
   }
 /* The processed variable must always be increased */
 self->processed++;
}

/*************************************************************************
*
* Formatted printing functions
*
*************************************************************************/

#if defined(TRIO_DOCUMENTATION)
# include "doc/doc_printf.h"
#endif
/** @addtogroup Printf
   @{
*/

/*************************************************************************
* printf
*/

/**
  Print to standard output stream.

  @param format Formatting string.
  @param ... Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_printf
```

```
TRIO_VARGS2((format, va_alist),
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
 int status;
 va_list args;

 assert(VALID(format));

 TRIO_VA_START(args, format);
 status = TrioFormat(stdout, 0, TrioOutStreamFile, format, &args, NULL);
 TRIO_VA_END(args);
 return status;
}

/**
  Print to standard output stream.

  @param format Formatting string.
  @param args Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_vprintf
TRIO_ARGS2((format, args),
   TRIO_CONST char *format,
   va_list args)
{
 assert(VALID(format));

 return TrioFormat(stdout, 0, TrioOutStreamFile, format, &args, NULL);
}

/**
  Print to standard output stream.

  @param format Formatting string.
  @param args Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_printfv
TRIO_ARGS2((format, args),
   TRIO_CONST char *format,
   trio_pointer_t * args)
{
 assert(VALID(format));
```

```
 return TrioFormat(stdout, 0, TrioOutStreamFile, format, NULL, args);
}

/*************************************************************************
* fprintf
*/

/**
  Print to file.

  @param file File pointer.
  @param format Formatting string.
  @param ... Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_fprintf
TRIO_VARGS3((file, format, va_alist),
    FILE *file,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
 int status;
 va_list args;

 assert(VALID(file));
 assert(VALID(format));

 TRIO_VA_START(args, format);
 status = TrioFormat(file, 0, TrioOutStreamFile, format, &args, NULL);
 TRIO_VA_END(args);
 return status;
}

/**
  Print to file.

  @param file File pointer.
  @param format Formatting string.
  @param args Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_vfprintf
TRIO_ARGS3((file, format, args),
   FILE *file,
   TRIO_CONST char *format,
   va_list args)
```

```
{
 assert(VALID(file));
 assert(VALID(format));

 return TrioFormat(file, 0, TrioOutStreamFile, format, &args, NULL);
}

/**
  Print to file.

  @param file File pointer.
  @param format Formatting string.
  @param args Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_fprintfv
TRIO_ARGS3((file, format, args),
   FILE *file,
   TRIO_CONST char *format,
   trio_pointer_t * args)
{
 assert(VALID(file));
 assert(VALID(format));

 return TrioFormat(file, 0, TrioOutStreamFile, format, NULL, args);
}

/*************************************************************************
* dprintf
*/

/**
  Print to file descriptor.

  @param fd File descriptor.
  @param format Formatting string.
  @param ... Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_dprintf
TRIO_VARGS3((fd, format, va_alist),
    int fd,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
 int status;
```

```
 va_list args;

 assert(VALID(format));

 TRIO_VA_START(args, format);
 status = TrioFormat(&fd, 0, TrioOutStreamFileDescriptor, format, &args, NULL);
 TRIO_VA_END(args);
 return status;
}

/**
  Print to file descriptor.

  @param fd File descriptor.
  @param format Formatting string.
  @param args Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_vdprintf
TRIO_ARGS3((fd, format, args),
    int fd,
    TRIO_CONST char *format,
    va_list args)
{
 assert(VALID(format));

 return TrioFormat(&fd, 0, TrioOutStreamFileDescriptor, format, &args, NULL);
}

/**
  Print to file descriptor.

  @param fd File descriptor.
  @param format Formatting string.
  @param args Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_dprintfv
TRIO_ARGS3((fd, format, args),
    int fd,
    TRIO_CONST char *format,
    trio_pointer_t *args)
{
 assert(VALID(format));

 return TrioFormat(&fd, 0, TrioOutStreamFileDescriptor, format, NULL, args);
```

```
}

/*************************************************************************
* cprintf
*/
TRIO_PUBLIC int
trio_cprintf
TRIO_VARGS4((stream, closure, format, va_alist),
    trio_outstream_t stream,
    trio_pointer_t closure,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
 int status;
 va_list args;
 trio_custom_t data;

 assert(VALID(stream));
 assert(VALID(format));

 TRIO_VA_START(args, format);
 data.stream.out = stream;
 data.closure = closure;
 status = TrioFormat(&data, 0, TrioOutStreamCustom, format, &args, NULL);
 TRIO_VA_END(args);
 return status;
}

TRIO_PUBLIC int
trio_vcprintf
TRIO_ARGS4((stream, closure, format, args),
   trio_outstream_t stream,
   trio_pointer_t closure,
   TRIO_CONST char *format,
   va_list args)
{
 trio_custom_t data;

 assert(VALID(stream));
 assert(VALID(format));

 data.stream.out = stream;
 data.closure = closure;
 return TrioFormat(&data, 0, TrioOutStreamCustom, format, &args, NULL);
}

TRIO_PUBLIC int
trio_cprintfv
```

```
TRIO_ARGS4((stream, closure, format, args),
   trio_outstream_t stream,
   trio_pointer_t closure,
   TRIO_CONST char *format,
   void **args)
{
 trio_custom_t data;

 assert(VALID(stream));
 assert(VALID(format));

 data.stream.out = stream;
 data.closure = closure;
 return TrioFormat(&data, 0, TrioOutStreamCustom, format, NULL, args);
}

/*************************************************************************
* sprintf
*/

/**
  Print to string.

  @param buffer Output string.
  @param format Formatting string.
  @param ... Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_sprintf
TRIO_VARGS3((buffer, format, va_alist),
    char *buffer,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
 int status;
 va_list args;

 assert(VALID(buffer));
 assert(VALID(format));

 TRIO_VA_START(args, format);
 status = TrioFormat(&buffer, 0, TrioOutStreamString, format, &args, NULL);
 *buffer = NIL; /* Terminate with NIL character */
 TRIO_VA_END(args);
 return status;
}
```

```
/**
  Print to string.

  @param buffer Output string.
  @param format Formatting string.
  @param args Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_vsprintf
TRIO_ARGS3((buffer, format, args),
    char *buffer,
    TRIO_CONST char *format,
    va_list args)
{
 int status;

 assert(VALID(buffer));
 assert(VALID(format));

 status = TrioFormat(&buffer, 0, TrioOutStreamString, format, &args, NULL);
 *buffer = NIL;
 return status;
}

/**
  Print to string.

  @param buffer Output string.
  @param format Formatting string.
  @param args Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_sprintfv
TRIO_ARGS3((buffer, format, args),
    char *buffer,
    TRIO_CONST char *format,
    trio_pointer_t *args)
{
 int status;

 assert(VALID(buffer));
 assert(VALID(format));

 status = TrioFormat(&buffer, 0, TrioOutStreamString, format, NULL, args);
 *buffer = NIL;
 return status;
```

```
}

/*************************************************************************
* snprintf
*/

/**
  Print at most @p max characters to string.

  @param buffer Output string.
  @param max Maximum number of characters to print.
  @param format Formatting string.
  @param ... Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_snprintf
TRIO_VARGS4((buffer, max, format, va_alist),
    char *buffer,
    size_t max,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
 int status;
 va_list args;

 assert(VALID(buffer));
 assert(VALID(format));

 TRIO_VA_START(args, format);
 status = TrioFormat(&buffer, max > 0 ? max - 1 : 0,
       TrioOutStreamStringMax, format, &args, NULL);
 if (max > 0)
   *buffer = NIL;
 TRIO_VA_END(args);
 return status;
}

/**
  Print at most @p max characters to string.

  @param buffer Output string.
  @param max Maximum number of characters to print.
  @param format Formatting string.
  @param args Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
```

```
trio_vsnprintf
TRIO_ARGS4((buffer, max, format, args),
   char *buffer,
   size_t max,
   TRIO_CONST char *format,
   va_list args)
{
 int status;

 assert(VALID(buffer));
 assert(VALID(format));

 status = TrioFormat(&buffer, max > 0 ? max - 1 : 0,
       TrioOutStreamStringMax, format, &args, NULL);
 if (max > 0)
   *buffer = NIL;
 return status;
}

/**
  Print at most @p max characters to string.

  @param buffer Output string.
  @param max Maximum number of characters to print.
  @param format Formatting string.
  @param args Arguments.
  @return Number of printed characters.
*/
TRIO_PUBLIC int
trio_snprintfv
TRIO_ARGS4((buffer, max, format, args),
   char *buffer,
   size_t max,
   TRIO_CONST char *format,
   trio_pointer_t *args)
{
 int status;

 assert(VALID(buffer));
 assert(VALID(format));

 status = TrioFormat(&buffer, max > 0 ? max - 1 : 0,
       TrioOutStreamStringMax, format, NULL, args);
 if (max > 0)
   *buffer = NIL;
 return status;
}
```

```
/*************************************************************************
* snprintfcat
* Appends the new string to the buffer string overwriting the '\0'
* character at the end of buffer.
*/
TRIO_PUBLIC int
trio_snprintfcat
TRIO_VARGS4((buffer, max, format, va_alist),
    char *buffer,
    size_t max,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
 int status;
 va_list args;
 size_t buf_len;

 TRIO_VA_START(args, format);

 assert(VALID(buffer));
 assert(VALID(format));

 buf_len = trio_length(buffer);
 buffer = &buffer[buf_len];

 status = TrioFormat(&buffer, max - 1 - buf_len,
       TrioOutStreamStringMax, format, &args, NULL);
 TRIO_VA_END(args);
 *buffer = NIL;
 return status;
}

TRIO_PUBLIC int
trio_vsnprintfcat
TRIO_ARGS4((buffer, max, format, args),
   char *buffer,
   size_t max,
   TRIO_CONST char *format,
   va_list args)
{
 int status;
 size_t buf_len;

 assert(VALID(buffer));
 assert(VALID(format));

 buf_len = trio_length(buffer);
 buffer = &buffer[buf_len];
```

```
 status = TrioFormat(&buffer, max - 1 - buf_len,
       TrioOutStreamStringMax, format, &args, NULL);
 *buffer = NIL;
 return status;
}

/*************************************************************************
* trio_aprintf
*/

/* Deprecated */
TRIO_PUBLIC char *
trio_aprintf
TRIO_VARGS2((format, va_alist),
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
 va_list args;
 trio_string_t *info;
 char *result = NULL;

 assert(VALID(format));

 info = trio_xstring_duplicate("");
 if (info)
   {
    TRIO_VA_START(args, format);
    (void)TrioFormat(info, 0, TrioOutStreamStringDynamic,
        format, &args, NULL);
    TRIO_VA_END(args);

    trio_string_terminate(info);
    result = trio_string_extract(info);
    trio_string_destroy(info);
   }
 return result;
}

/* Deprecated */
TRIO_PUBLIC char *
trio_vaprintf
TRIO_ARGS2((format, args),
   TRIO_CONST char *format,
   va_list args)
{
 trio_string_t *info;
 char *result = NULL;
```

```
 assert(VALID(format));

 info = trio_xstring_duplicate("");
 if (info)
   {
     (void)TrioFormat(info, 0, TrioOutStreamStringDynamic,
         format, &args, NULL);
     trio_string_terminate(info);
     result = trio_string_extract(info);
     trio_string_destroy(info);
   }
 return result;
}

TRIO_PUBLIC int
trio_asprintf
TRIO_VARGS3((result, format, va_alist),
     char **result,
     TRIO_CONST char *format,
     TRIO_VA_DECL)
{
 va_list args;
 int status;
 trio_string_t *info;

 assert(VALID(format));

 *result = NULL;

 info = trio_xstring_duplicate("");
 if (info == NULL)
   {
     status = TRIO_ERROR_RETURN(TRIO_ENOMEM, 0);
   }
 else
   {
     TRIO_VA_START(args, format);
     status = TrioFormat(info, 0, TrioOutStreamStringDynamic,
     format, &args, NULL);
     TRIO_VA_END(args);
     if (status >= 0)
{
   trio_string_terminate(info);
   *result = trio_string_extract(info);
 }
     trio_string_destroy(info);
   }
 return status;
```

```
}

TRIO_PUBLIC int
trio_vasprintf
TRIO_ARGS3((result, format, args),
   char **result,
   TRIO_CONST char *format,
   va_list args)
{
 int status;
 trio_string_t *info;

 assert(VALID(format));

 *result = NULL;

 info = trio_xstring_duplicate("");
 if (info == NULL)
   {
    status = TRIO_ERROR_RETURN(TRIO_ENOMEM, 0);
   }
 else
   {
    status = TrioFormat(info, 0, TrioOutStreamStringDynamic,
    format, &args, NULL);
    if (status >= 0)
 {
  trio_string_terminate(info);
  *result = trio_string_extract(info);
 }
    trio_string_destroy(info);
   }
 return status;
}

/** @} End of Printf documentation module */

/*************************************************************************
*
* CALLBACK
*
*************************************************************************/

#if defined(TRIO_DOCUMENTATION)
# include "doc/doc_register.h"
#endif
/**
  @addtogroup UserDefined
```

```
  @{
*/

#if TRIO_EXTENSION

/*************************************************************************
* trio_register
*/

/**
  Register new user-defined specifier.

  @param callback
  @param name
  @return Handle.
*/
TRIO_PUBLIC trio_pointer_t
trio_register
TRIO_ARGS2((callback, name),
    trio_callback_t callback,
    TRIO_CONST char *name)
{
 trio_userdef_t *def;
 trio_userdef_t *prev = NULL;

 if (callback == NULL)
   return NULL;

 if (name)
   {
     /* Handle built-in namespaces */
     if (name[0] == ':')
 {
   if (trio_equal(name, ":enter"))
     {
       internalEnterCriticalRegion = callback;
     }
   else if (trio_equal(name, ":leave"))
     {
       internalLeaveCriticalRegion = callback;
     }
   return NULL;
 }

     /* Bail out if namespace is too long */
     if (trio_length(name) >= MAX_USER_NAME)
 return NULL;
```

```
    /* Bail out if namespace already is registered */
    def = TrioFindNamespace(name, &prev);
    if (def)
 return NULL;
  }

 def = (trio_userdef_t *)TRIO_MALLOC(sizeof(trio_userdef_t));
 if (def)
  {
    if (internalEnterCriticalRegion)
 (void)internalEnterCriticalRegion(NULL);

    if (name)
 {
  /* Link into internal list */
  if (prev == NULL)
    internalUserDef = def;
  else
    prev->next = def;
 }
    /* Initialize */
    def->callback = callback;
    def->name = (name == NULL)
 ? NULL
 : trio_duplicate(name);
    def->next = NULL;

    if (internalLeaveCriticalRegion)
 (void)internalLeaveCriticalRegion(NULL);
  }
 return (trio_pointer_t)def;
}

/**
  Unregister an existing user-defined specifier.

  @param handle
*/
void
trio_unregister
TRIO_ARGS1((handle),
    trio_pointer_t handle)
{
 trio_userdef_t *self = (trio_userdef_t *)handle;
 trio_userdef_t *def;
 trio_userdef_t *prev = NULL;

 assert(VALID(self));
```

```
 if (self->name)
   {
     def = TrioFindNamespace(self->name, &prev);
     if (def)
 {
   if (internalEnterCriticalRegion)
     (void)internalEnterCriticalRegion(NULL);

   if (prev == NULL)
     internalUserDef = NULL;
   else
     prev->next = def->next;

   if (internalLeaveCriticalRegion)
     (void)internalLeaveCriticalRegion(NULL);
 }
     trio_destroy(self->name);
   }
 TRIO_FREE(self);
}

/*************************************************************************
* trio_get_format [public]
*/
TRIO_CONST char *
trio_get_format
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
#if defined(FORMAT_USER_DEFINED)
 assert(((trio_reference_t *)ref)->parameter->type == FORMAT_USER_DEFINED);
#endif

 return (((trio_reference_t *)ref)->parameter->user_data);
}

/*************************************************************************
* trio_get_argument [public]
*/
trio_pointer_t
trio_get_argument
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
#if defined(FORMAT_USER_DEFINED)
 assert(((trio_reference_t *)ref)->parameter->type == FORMAT_USER_DEFINED);
#endif
```

```
 return ((trio_reference_t *)ref)->parameter->data.pointer;
}

/*************************************************************************
* trio_get_width / trio_set_width [public]
*/
int
trio_get_width
TRIO_ARGS1((ref),
   trio_pointer_t ref)
{
 return ((trio_reference_t *)ref)->parameter->width;
}

void
trio_set_width
TRIO_ARGS2((ref, width),
   trio_pointer_t ref,
   int width)
{
 ((trio_reference_t *)ref)->parameter->width = width;
}

/*************************************************************************
* trio_get_precision / trio_set_precision [public]
*/
int
trio_get_precision
TRIO_ARGS1((ref),
   trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->precision);
}

void
trio_set_precision
TRIO_ARGS2((ref, precision),
   trio_pointer_t ref,
   int precision)
{
 ((trio_reference_t *)ref)->parameter->precision = precision;
}

/*************************************************************************
* trio_get_base / trio_set_base [public]
*/
int
```

```
trio_get_base
TRIO_ARGS1((ref),
   trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->base);
}

void
trio_set_base
TRIO_ARGS2((ref, base),
   trio_pointer_t ref,
   int base)
{
 ((trio_reference_t *)ref)->parameter->base = base;
}

/*************************************************************************
* trio_get_long / trio_set_long [public]
*/
int
trio_get_long
TRIO_ARGS1((ref),
   trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_LONG)
   ? TRUE
   : FALSE;
}

void
trio_set_long
TRIO_ARGS2((ref, is_long),
   trio_pointer_t ref,
   int is_long)
{
 if (is_long)
   ((trio_reference_t *)ref)->parameter->flags |= FLAGS_LONG;
 else
   ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_LONG;
}

/*************************************************************************
* trio_get_longlong / trio_set_longlong [public]
*/
int
trio_get_longlong
TRIO_ARGS1((ref),
   trio_pointer_t ref)
```

```
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_QUAD)
   ? TRUE
   : FALSE;
}

void
trio_set_longlong
TRIO_ARGS2((ref, is_longlong),
    trio_pointer_t ref,
    int is_longlong)
{
 if (is_longlong)
   ((trio_reference_t *)ref)->parameter->flags |= FLAGS_QUAD;
 else
   ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_QUAD;
}

/*************************************************************************
* trio_get_longdouble / trio_set_longdouble [public]
*/
int
trio_get_longdouble
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_LONGDOUBLE)
   ? TRUE
   : FALSE;
}

void
trio_set_longdouble
TRIO_ARGS2((ref, is_longdouble),
    trio_pointer_t ref,
    int is_longdouble)
{
 if (is_longdouble)
   ((trio_reference_t *)ref)->parameter->flags |= FLAGS_LONGDOUBLE;
 else
   ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_LONGDOUBLE;
}

/*************************************************************************
* trio_get_short / trio_set_short [public]
*/
int
trio_get_short
```

```
TRIO_ARGS1((ref),
   trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_SHORT)
   ? TRUE
   : FALSE;
}

void
trio_set_short
TRIO_ARGS2((ref, is_short),
   trio_pointer_t ref,
   int is_short)
{
 if (is_short)
   ((trio_reference_t *)ref)->parameter->flags |= FLAGS_SHORT;
 else
   ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_SHORT;
}

/*************************************************************************
* trio_get_shortshort / trio_set_shortshort [public]
*/
int
trio_get_shortshort
TRIO_ARGS1((ref),
   trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_SHORTSHORT)
   ? TRUE
   : FALSE;
}

void
trio_set_shortshort
TRIO_ARGS2((ref, is_shortshort),
   trio_pointer_t ref,
   int is_shortshort)
{
 if (is_shortshort)
   ((trio_reference_t *)ref)->parameter->flags |= FLAGS_SHORTSHORT;
 else
   ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_SHORTSHORT;
}

/*************************************************************************
* trio_get_alternative / trio_set_alternative [public]
*/
```

```
int
trio_get_alternative
TRIO_ARGS1((ref),
   trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_ALTERNATIVE)
   ? TRUE
   : FALSE;
}

void
trio_set_alternative
TRIO_ARGS2((ref, is_alternative),
   trio_pointer_t ref,
   int is_alternative)
{
 if (is_alternative)
   ((trio_reference_t *)ref)->parameter->flags |= FLAGS_ALTERNATIVE;
 else
   ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_ALTERNATIVE;
}

/*************************************************************************
* trio_get_alignment / trio_set_alignment [public]
*/
int
trio_get_alignment
TRIO_ARGS1((ref),
   trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_LEFTADJUST)
   ? TRUE
   : FALSE;
}

void
trio_set_alignment
TRIO_ARGS2((ref, is_leftaligned),
   trio_pointer_t ref,
   int is_leftaligned)
{
 if (is_leftaligned)
   ((trio_reference_t *)ref)->parameter->flags |= FLAGS_LEFTADJUST;
 else
   ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_LEFTADJUST;
}

/*************************************************************************
```

```
* trio_get_spacing /trio_set_spacing [public]
*/
int
trio_get_spacing
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_SPACE)
   ? TRUE
   : FALSE;
}

void
trio_set_spacing
TRIO_ARGS2((ref, is_space),
    trio_pointer_t ref,
    int is_space)
{
 if (is_space)
   ((trio_reference_t *)ref)->parameter->flags |= FLAGS_SPACE;
 else
   ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_SPACE;
}

/*************************************************************************
* trio_get_sign / trio_set_sign [public]
*/
int
trio_get_sign
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_SHOWSIGN)
   ? TRUE
   : FALSE;
}

void
trio_set_sign
TRIO_ARGS2((ref, is_sign),
    trio_pointer_t ref,
    int is_sign)
{
 if (is_sign)
   ((trio_reference_t *)ref)->parameter->flags |= FLAGS_SHOWSIGN;
 else
   ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_SHOWSIGN;
}
```

```
/*************************************************************************
* trio_get_padding / trio_set_padding [public]
*/
int
trio_get_padding
TRIO_ARGS1((ref),
   trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_NILPADDING)
   ? TRUE
   : FALSE;
}

void
trio_set_padding
TRIO_ARGS2((ref, is_padding),
   trio_pointer_t ref,
   int is_padding)
{
 if (is_padding)
   ((trio_reference_t *)ref)->parameter->flags |= FLAGS_NILPADDING;
 else
   ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_NILPADDING;
}

/*************************************************************************
* trio_get_quote / trio_set_quote [public]
*/
int
trio_get_quote
TRIO_ARGS1((ref),
   trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_QUOTE)
   ? TRUE
   : FALSE;
}

void
trio_set_quote
TRIO_ARGS2((ref, is_quote),
   trio_pointer_t ref,
   int is_quote)
{
 if (is_quote)
   ((trio_reference_t *)ref)->parameter->flags |= FLAGS_QUOTE;
 else
```

```
  ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_QUOTE;
}

/*************************************************************************
* trio_get_upper / trio_set_upper [public]
*/
int
trio_get_upper
TRIO_ARGS1((ref),
   trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_UPPER)
  ? TRUE
  : FALSE;
}

void
trio_set_upper
TRIO_ARGS2((ref, is_upper),
   trio_pointer_t ref,
   int is_upper)
{
 if (is_upper)
  ((trio_reference_t *)ref)->parameter->flags |= FLAGS_UPPER;
 else
  ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_UPPER;
}

/*************************************************************************
* trio_get_largest / trio_set_largest [public]
*/
#if TRIO_C99
int
trio_get_largest
TRIO_ARGS1((ref),
   trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_INTMAX_T)
  ? TRUE
  : FALSE;
}

void
trio_set_largest
TRIO_ARGS2((ref, is_largest),
   trio_pointer_t ref,
   int is_largest)
{
```

```
 if (is_largest)
   ((trio_reference_t *)ref)->parameter->flags |= FLAGS_INTMAX_T;
 else
   ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_INTMAX_T;
}
#endif

/*************************************************************************
* trio_get_ptrdiff / trio_set_ptrdiff [public]
*/
int
trio_get_ptrdiff
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_PTRDIFF_T)
   ? TRUE
   : FALSE;
}

void
trio_set_ptrdiff
TRIO_ARGS2((ref, is_ptrdiff),
    trio_pointer_t ref,
    int is_ptrdiff)
{
 if (is_ptrdiff)
   ((trio_reference_t *)ref)->parameter->flags |= FLAGS_PTRDIFF_T;
 else
   ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_PTRDIFF_T;
}

/*************************************************************************
* trio_get_size / trio_set_size [public]
*/
#if TRIO_C99
int
trio_get_size
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
 return (((trio_reference_t *)ref)->parameter->flags & FLAGS_SIZE_T)
   ? TRUE
   : FALSE;
}

void
trio_set_size
```

```
TRIO_ARGS2((ref, is_size),
   trio_pointer_t ref,
   int is_size)
{
 if (is_size)
  ((trio_reference_t *)ref)->parameter->flags |= FLAGS_SIZE_T;
 else
  ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_SIZE_T;
}
#endif

/*************************************************************************
* trio_print_int [public]
*/
void
trio_print_int
TRIO_ARGS2((ref, number),
   trio_pointer_t ref,
   int number)
{
 trio_reference_t *self = (trio_reference_t *)ref;

 TrioWriteNumber(self->data,
   (trio_uintmax_t)number,
   self->parameter->flags,
   self->parameter->width,
   self->parameter->precision,
   self->parameter->base);
}

/*************************************************************************
* trio_print_uint [public]
*/
void
trio_print_uint
TRIO_ARGS2((ref, number),
   trio_pointer_t ref,
   unsigned int number)
{
 trio_reference_t *self = (trio_reference_t *)ref;

 TrioWriteNumber(self->data,
   (trio_uintmax_t)number,
   self->parameter->flags | FLAGS_UNSIGNED,
   self->parameter->width,
   self->parameter->precision,
   self->parameter->base);
}
```

```
/*************************************************************************
* trio_print_double [public]
*/
void
trio_print_double
TRIO_ARGS2((ref, number),
   trio_pointer_t ref,
   double number)
{
 trio_reference_t *self = (trio_reference_t *)ref;

 TrioWriteDouble(self->data,
   number,
   self->parameter->flags,
   self->parameter->width,
   self->parameter->precision,
   self->parameter->base);
}

/*************************************************************************
* trio_print_string [public]
*/
void
trio_print_string
TRIO_ARGS2((ref, string),
   trio_pointer_t ref,
   char *string)
{
 trio_reference_t *self = (trio_reference_t *)ref;

 TrioWriteString(self->data,
   string,
   self->parameter->flags,
   self->parameter->width,
   self->parameter->precision);
}

/*************************************************************************
* trio_print_ref [public]
*/
int
trio_print_ref
TRIO_VARGS3((ref, format, va_alist),
    trio_pointer_t ref,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
```

```
 int status;
 va_list arglist;

 assert(VALID(format));

 TRIO_VA_START(arglist, format);
 status = TrioFormatRef((trio_reference_t *)ref, format, &arglist, NULL);
 TRIO_VA_END(arglist);
 return status;
}

/*************************************************************************
* trio_vprint_ref [public]
*/
int
trio_vprint_ref
TRIO_ARGS3((ref, format, arglist),
   trio_pointer_t ref,
   TRIO_CONST char *format,
   va_list arglist)
{
 assert(VALID(format));

 return TrioFormatRef((trio_reference_t *)ref, format, &arglist, NULL);
}

/*************************************************************************
* trio_printv_ref [public]
*/
int
trio_printv_ref
TRIO_ARGS3((ref, format, argarray),
   trio_pointer_t ref,
   TRIO_CONST char *format,
   trio_pointer_t *argarray)
{
 assert(VALID(format));

 return TrioFormatRef((trio_reference_t *)ref, format, NULL, argarray);
}

#endif /* TRIO_EXTENSION */

/*************************************************************************
* trio_print_pointer [public]
*/
void
trio_print_pointer
```

```
TRIO_ARGS2((ref, pointer),
   trio_pointer_t ref,
   trio_pointer_t pointer)
{
 trio_reference_t *self = (trio_reference_t *)ref;
 trio_flags_t flags;
 trio_uintmax_t number;

 if (NULL == pointer)
   {
    TRIO_CONST char *string = internalNullString;
    while (*string)
 self->data->OutStream(self->data, *string++);
   }
 else
   {
    /*
     * The subtraction of the null pointer is a workaround
     * to avoid a compiler warning. The performance overhead
     * is negligible (and likely to be removed by an
     * optimizing compiler). The (char *) casting is done
     * to please ANSI C++.
     */
    number = (trio_uintmax_t)((char *)pointer - (char *)0);
    /* Shrink to size of pointer */
    number &= (trio_uintmax_t)-1;
    flags = self->parameter->flags;
    flags |= (FLAGS_UNSIGNED | FLAGS_ALTERNATIVE |
       FLAGS_NILPADDING);
    TrioWriteNumber(self->data,
       number,
       flags,
       POINTER_WIDTH,
       NO_PRECISION,
       BASE_HEX);
   }
}

/** @} End of UserDefined documentation module */

/*************************************************************************
*
* LOCALES
*
*************************************************************************/

/*************************************************************************
* trio_locale_set_decimal_point
```

```
*
* Decimal point can only be one character. The input argument is a
* string to enable multibyte characters. At most MB_LEN_MAX characters
* will be used.
*/
TRIO_PUBLIC void
trio_locale_set_decimal_point
TRIO_ARGS1((decimalPoint),
   char *decimalPoint)
{
#if defined(USE_LOCALE)
 if (NULL == internalLocaleValues)
   {
    TrioSetLocale();
   }
#endif
 internalDecimalPointLength = trio_length(decimalPoint);
 if (internalDecimalPointLength == 1)
   {
    internalDecimalPoint = *decimalPoint;
   }
 else
   {
    internalDecimalPoint = NIL;
    trio_copy_max(internalDecimalPointString,
     sizeof(internalDecimalPointString),
     decimalPoint);
   }
}

/*************************************************************************
* trio_locale_set_thousand_separator
*
* See trio_locale_set_decimal_point
*/
TRIO_PUBLIC void
trio_locale_set_thousand_separator
TRIO_ARGS1((thousandSeparator),
   char *thousandSeparator)
{
#if defined(USE_LOCALE)
 if (NULL == internalLocaleValues)
   {
    TrioSetLocale();
   }
#endif
 trio_copy_max(internalThousandSeparator,
  sizeof(internalThousandSeparator),
```

```
 thousandSeparator);
 internalThousandSeparatorLength = trio_length(internalThousandSeparator);
}

/*************************************************************************
* trio_locale_set_grouping
*
* Array of bytes. Reversed order.
*
*  CHAR_MAX : No further grouping
*  0        : Repeat last group for the remaining digits (not necessary
*             as C strings are zero-terminated)
*  n        : Set current group to n
*
* Same order as the grouping attribute in LC_NUMERIC.
*/
TRIO_PUBLIC void
trio_locale_set_grouping
TRIO_ARGS1((grouping),
    char *grouping)
{
#if defined(USE_LOCALE)
 if (NULL == internalLocaleValues)
   {
    TrioSetLocale();
   }
#endif
 trio_copy_max(internalGrouping,
  sizeof(internalGrouping),
  grouping);
}


/*************************************************************************
*
* SCANNING
*
*************************************************************************/

/*************************************************************************
* TrioSkipWhitespaces
*/
TRIO_PRIVATE int
TrioSkipWhitespaces
TRIO_ARGS1((self),
    trio_class_t *self)
{
 int ch;
```

```
 ch = self->current;
 while (isspace(ch))
   {
     self->InStream(self, &ch);
   }
 return ch;
}

/*************************************************************************
* TrioGetCollation
*/
#if TRIO_EXTENSION
TRIO_PRIVATE void
TrioGetCollation(TRIO_NOARGS)
{
 int i;
 int j;
 int k;
 char first[2];
 char second[2];

 /* This is computationally expensive */
 first[1] = NIL;
 second[1] = NIL;
 for (i = 0; i < MAX_CHARACTER_CLASS; i++)
   {
     k = 0;
     first[0] = (char)i;
     for (j = 0; j < MAX_CHARACTER_CLASS; j++)
 {
   second[0] = (char)j;
   if (trio_equal_locale(first, second))
     internalCollationArray[i][k++] = (char)j;
 }
     internalCollationArray[i][k] = NIL;
   }
}
#endif

/*************************************************************************
* TrioGetCharacterClass
*
* FIXME:
*  multibyte
*/
TRIO_PRIVATE int
TrioGetCharacterClass
```

```
TRIO_ARGS4((format, indexPointer, flagsPointer, characterclass),
   TRIO_CONST char *format,
   int *indexPointer,
   trio_flags_t *flagsPointer,
   int *characterclass)
{
 int index = *indexPointer;
 int i;
 char ch;
 char range_begin;
 char range_end;

 *flagsPointer &= ~FLAGS_EXCLUDE;

 if (format[index] == QUALIFIER_CIRCUMFLEX)
   {
    *flagsPointer |= FLAGS_EXCLUDE;
    index++;
   }
 /*
  * If the ungroup character is at the beginning of the scanlist,
  * it will be part of the class, and a second ungroup character
  * must follow to end the group.
  */
 if (format[index] == SPECIFIER_UNGROUP)
   {
    characterclass[(int)SPECIFIER_UNGROUP]++;
    index++;
   }
 /*
  * Minus is used to specify ranges. To include minus in the class,
  * it must be at the beginning of the list
  */
 if (format[index] == QUALIFIER_MINUS)
   {
    characterclass[(int)QUALIFIER_MINUS]++;
    index++;
   }
 /* Collect characters */
 for (ch = format[index];
      (ch != SPECIFIER_UNGROUP) && (ch != NIL);
      ch = format[++index])
   {
    switch (ch)
 {
 case QUALIFIER_MINUS: /* Scanlist ranges */

   /*
```

```
   * Both C99 and UNIX98 describes ranges as implementation-
   * defined.
   *
   * We support the following behaviour (although this may
   * change as we become wiser)
   * - only increasing ranges, ie. [a-b] but not [b-a]
   * - transitive ranges, ie. [a-b-c] == [a-c]
   * - trailing minus, ie. [a-] is interpreted as an 'a'
   *   and a '-'
   * - duplicates (although we can easily convert these
   *   into errors)
   */
  range_begin = format[index - 1];
  range_end = format[++index];
  if (range_end == SPECIFIER_UNGROUP)
    {
      /* Trailing minus is included */
      characterclass[(int)ch]++;
      ch = range_end;
      break; /* for */
    }
  if (range_end == NIL)
    return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
  if (range_begin > range_end)
    return TRIO_ERROR_RETURN(TRIO_ERANGE, index);

  for (i = (int)range_begin; i <= (int)range_end; i++)
    characterclass[i]++;

  ch = range_end;
  break;

#if TRIO_EXTENSION

 case SPECIFIER_GROUP:

  switch (format[index + 1])
    {
    case QUALIFIER_DOT: /* Collating symbol */
      /*
       * FIXME: This will be easier to implement when multibyte
       * characters have been implemented. Until now, we ignore
       * this feature.
       */
      for (i = index + 2; ; i++)
 {
   if (format[i] == NIL)
     /* Error in syntax */
```

```
    return -1;
  else if (format[i] == QUALIFIER_DOT)
    break; /* for */
}
     if (format[++i] != SPECIFIER_UNGROUP)
return -1;

     index = i;
     break;

   case QUALIFIER_EQUAL: /* Equivalence class expressions */
     {
unsigned int j;
unsigned int k;

if (internalCollationUnconverted)
  {
    /* Lazy evaluation of collation array */
    TrioGetCollation();
    internalCollationUnconverted = FALSE;
  }
for (i = index + 2; ; i++)
  {
    if (format[i] == NIL)
      /* Error in syntax */
      return -1;
    else if (format[i] == QUALIFIER_EQUAL)
      break; /* for */
    else
      {
 /* Mark any equivalent character */
 k = (unsigned int)format[i];
 for (j = 0; internalCollationArray[k][j] != NIL; j++)
   characterclass[(int)internalCollationArray[k][j]]++;
      }
  }
if (format[++i] != SPECIFIER_UNGROUP)
  return -1;

index = i;
     }
     break;

   case QUALIFIER_COLON: /* Character class expressions */

     if (trio_equal_max(CLASS_ALNUM, sizeof(CLASS_ALNUM) - 1,
   &format[index]))
{
```

```
  for (i = 0; i < MAX_CHARACTER_CLASS; i++)
    if (isalnum(i))
      characterclass[i]++;
  index += sizeof(CLASS_ALNUM) - 1;
}
    else if (trio_equal_max(CLASS_ALPHA, sizeof(CLASS_ALPHA) - 1,
       &format[index]))
{
  for (i = 0; i < MAX_CHARACTER_CLASS; i++)
    if (isalpha(i))
      characterclass[i]++;
  index += sizeof(CLASS_ALPHA) - 1;
}
    else if (trio_equal_max(CLASS_CNTRL, sizeof(CLASS_CNTRL) - 1,
       &format[index]))
{
  for (i = 0; i < MAX_CHARACTER_CLASS; i++)
    if (iscntrl(i))
      characterclass[i]++;
  index += sizeof(CLASS_CNTRL) - 1;
}
    else if (trio_equal_max(CLASS_DIGIT, sizeof(CLASS_DIGIT) - 1,
       &format[index]))
{
  for (i = 0; i < MAX_CHARACTER_CLASS; i++)
    if (isdigit(i))
      characterclass[i]++;
  index += sizeof(CLASS_DIGIT) - 1;
}
    else if (trio_equal_max(CLASS_GRAPH, sizeof(CLASS_GRAPH) - 1,
       &format[index]))
{
  for (i = 0; i < MAX_CHARACTER_CLASS; i++)
    if (isgraph(i))
      characterclass[i]++;
  index += sizeof(CLASS_GRAPH) - 1;
}
    else if (trio_equal_max(CLASS_LOWER, sizeof(CLASS_LOWER) - 1,
       &format[index]))
{
  for (i = 0; i < MAX_CHARACTER_CLASS; i++)
    if (islower(i))
      characterclass[i]++;
  index += sizeof(CLASS_LOWER) - 1;
}
    else if (trio_equal_max(CLASS_PRINT, sizeof(CLASS_PRINT) - 1,
       &format[index]))
{
```

```
  for (i = 0; i < MAX_CHARACTER_CLASS; i++)
    if (isprint(i))
      characterclass[i]++;
  index += sizeof(CLASS_PRINT) - 1;
}
    else if (trio_equal_max(CLASS_PUNCT, sizeof(CLASS_PUNCT) - 1,
       &format[index]))
{
  for (i = 0; i < MAX_CHARACTER_CLASS; i++)
    if (ispunct(i))
      characterclass[i]++;
  index += sizeof(CLASS_PUNCT) - 1;
}
    else if (trio_equal_max(CLASS_SPACE, sizeof(CLASS_SPACE) - 1,
       &format[index]))
{
  for (i = 0; i < MAX_CHARACTER_CLASS; i++)
    if (isspace(i))
      characterclass[i]++;
  index += sizeof(CLASS_SPACE) - 1;
}
    else if (trio_equal_max(CLASS_UPPER, sizeof(CLASS_UPPER) - 1,
       &format[index]))
{
  for (i = 0; i < MAX_CHARACTER_CLASS; i++)
    if (isupper(i))
      characterclass[i]++;
  index += sizeof(CLASS_UPPER) - 1;
}
    else if (trio_equal_max(CLASS_XDIGIT, sizeof(CLASS_XDIGIT) - 1,
       &format[index]))
{
  for (i = 0; i < MAX_CHARACTER_CLASS; i++)
    if (isxdigit(i))
      characterclass[i]++;
  index += sizeof(CLASS_XDIGIT) - 1;
}
    else
{
  characterclass[(int)ch]++;
}
    break;

  default:
    characterclass[(int)ch]++;
    break;
  }
 break;
```

```
#endif /* TRIO_EXTENSION */

 default:
   characterclass[(int)ch]++;
   break;
 }
   }
 return 0;
}

/*************************************************************************
* TrioReadNumber
*
* We implement our own number conversion in preference of strtol and
* strtoul, because we must handle 'long long' and thousand separators.
*/
TRIO_PRIVATE BOOLEAN_T
TrioReadNumber
TRIO_ARGS5((self, target, flags, width, base),
    trio_class_t *self,
    trio_uintmax_t *target,
    trio_flags_t flags,
    int width,
    int base)
{
 trio_uintmax_t number = 0;
 int digit;
 int count;
 BOOLEAN_T isNegative = FALSE;
 BOOLEAN_T gotNumber = FALSE;
 int j;

 assert(VALID(self));
 assert(VALID(self->InStream));
 assert((base >= MIN_BASE && base <= MAX_BASE) || (base == NO_BASE));

 if (internalDigitsUnconverted)
   {
     /* Lazy evaluation of digits array */
     memset(internalDigitArray, -1, sizeof(internalDigitArray));
     for (j = 0; j < (int)sizeof(internalDigitsLower) - 1; j++)
 {
   internalDigitArray[(int)internalDigitsLower[j]] = j;
   internalDigitArray[(int)internalDigitsUpper[j]] = j;
 }
     internalDigitsUnconverted = FALSE;
   }
```

```
TrioSkipWhitespaces(self);

if (!(flags & FLAGS_UNSIGNED))
  {
    /* Leading sign */
    if (self->current == '+')
{
  self->InStream(self, NULL);
}
    else if (self->current == '-')
{
  self->InStream(self, NULL);
  isNegative = TRUE;
}
  }

count = self->processed;

if (flags & FLAGS_ALTERNATIVE)
  {
    switch (base)
{
case NO_BASE:
case BASE_OCTAL:
case BASE_HEX:
case BASE_BINARY:
  if (self->current == '0')
    {
      self->InStream(self, NULL);
      if (self->current)
 {
   if ((base == BASE_HEX) &&
       (trio_to_upper(self->current) == 'X'))
     {
       self->InStream(self, NULL);
     }
   else if ((base == BASE_BINARY) &&
     (trio_to_upper(self->current) == 'B'))
     {
       self->InStream(self, NULL);
     }
 }
    }
  else
    return FALSE;
  break;
default:
```

```
  break;
}
  }

while (((width == NO_WIDTH) || (self->processed - count < width)) &&
 (! ((self->current == EOF) || isspace(self->current))))
  {
    if (isascii(self->current))
{
  digit = internalDigitArray[self->current];
  /* Abort if digit is not allowed in the specified base */
  if ((digit == -1) || (digit >= base))
    break;
}
    else if (flags & FLAGS_QUOTE)
{
  /* Compare with thousands separator */
  for (j = 0; internalThousandSeparator[j] && self->current; j++)
    {
      if (internalThousandSeparator[j] != self->current)
 break;

      self->InStream(self, NULL);
    }
  if (internalThousandSeparator[j])
    break; /* Mismatch */
  else
    continue; /* Match */
}
    else
break;

    number *= base;
    number += digit;
    gotNumber = TRUE; /* we need at least one digit */

    self->InStream(self, NULL);
  }

/* Was anything read at all? */
if (!gotNumber)
  return FALSE;

if (target)
  *target = (isNegative) ? -((trio_intmax_t)number) : number;
return TRUE;
}
```

```
/*************************************************************************
* TrioReadChar
*/
TRIO_PRIVATE int
TrioReadChar
TRIO_ARGS4((self, target, flags, width),
   trio_class_t *self,
   char *target,
   trio_flags_t flags,
   int width)
{
 int i;
 char ch;
 trio_uintmax_t number;

 assert(VALID(self));
 assert(VALID(self->InStream));

 for (i = 0;
      (self->current != EOF) && (i < width);
      i++)
  {
    ch = (char)self->current;
    self->InStream(self, NULL);
    if ((flags & FLAGS_ALTERNATIVE) && (ch == CHAR_BACKSLASH))
{
  switch (self->current)
    {
    case '\\': ch = '\\'; break;
    case 'a': ch = '\007'; break;
    case 'b': ch = '\b'; break;
    case 'f': ch = '\f'; break;
    case 'n': ch = '\n'; break;
    case 'r': ch = '\r'; break;
    case 't': ch = '\t'; break;
    case 'v': ch = '\v'; break;
    default:
      if (isdigit(self->current))
 {
   /* Read octal number */
   if (!TrioReadNumber(self, &number, 0, 3, BASE_OCTAL))
     return 0;
   ch = (char)number;
 }
      else if (trio_to_upper(self->current) == 'X')
 {
   /* Read hexadecimal number */
   self->InStream(self, NULL);
```

```
   if (!TrioReadNumber(self, &number, 0, 2, BASE_HEX))
     return 0;
   ch = (char)number;
 }
      else
 {
   ch = (char)self->current;
 }
      break;
    }
}

    if (target)
 target[i] = ch;
  }
 return i + 1;
}

/*************************************************************************
* TrioReadString
*/
TRIO_PRIVATE BOOLEAN_T
TrioReadString
TRIO_ARGS4((self, target, flags, width),
   trio_class_t *self,
   char *target,
   trio_flags_t flags,
   int width)
{
 int i;

 assert(VALID(self));
 assert(VALID(self->InStream));

 TrioSkipWhitespaces(self);

 /*
  * Continue until end of string is reached, a whitespace is encountered,
  * or width is exceeded
  */
 for (i = 0;
      ((width == NO_WIDTH) || (i < width)) &&
      (! ((self->current == EOF) || isspace(self->current)));
      i++)
  {
    if (TrioReadChar(self, (target ? &target[i] : 0), flags, 1) == 0)
 break; /* for */
  }
```

```
 if (target)
   target[i] = NIL;
 return TRUE;
}

/*************************************************************************
* TrioReadWideChar
*/
#if TRIO_WIDECHAR
TRIO_PRIVATE int
TrioReadWideChar
TRIO_ARGS4((self, target, flags, width),
    trio_class_t *self,
    trio_wchar_t *target,
    trio_flags_t flags,
    int width)
{
 int i;
 int j;
 int size;
 int amount = 0;
 trio_wchar_t wch;
 char buffer[MB_LEN_MAX + 1];

 assert(VALID(self));
 assert(VALID(self->InStream));

 for (i = 0;
      (self->current != EOF) && (i < width);
      i++)
   {
     if (isascii(self->current))
{
   if (TrioReadChar(self, buffer, flags, 1) == 0)
     return 0;
   buffer[1] = NIL;
}
     else
{
   /*
    * Collect a multibyte character, by enlarging buffer until
    * it contains a fully legal multibyte character, or the
    * buffer is full.
    */
   j = 0;
   do
     {
       buffer[j++] = (char)self->current;
```

```
      buffer[j] = NIL;
      self->InStream(self, NULL);
    }
  while ((j < (int)sizeof(buffer)) && (mblen(buffer, (size_t)j) != j));
 }
    if (target)
 {
  size = mbtowc(&wch, buffer, sizeof(buffer));
  if (size > 0)
    target[i] = wch;
 }
    amount += size;
    self->InStream(self, NULL);
  }
 return amount;
}
#endif /* TRIO_WIDECHAR */

/*************************************************************************
* TrioReadWideString
*/
#if TRIO_WIDECHAR
TRIO_PRIVATE BOOLEAN_T
TrioReadWideString
TRIO_ARGS4((self, target, flags, width),
   trio_class_t *self,
   trio_wchar_t *target,
   trio_flags_t flags,
   int width)
{
 int i;
 int size;

 assert(VALID(self));
 assert(VALID(self->InStream));

 TrioSkipWhitespaces(self);

#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
 (void)mblen(NULL, 0);
#endif

 /*
  * Continue until end of string is reached, a whitespace is encountered,
  * or width is exceeded
  */
 for (i = 0;
      ((width == NO_WIDTH) || (i < width)) &&
```

```
     (! ((self->current == EOF) || isspace(self->current)));
     )
  {
    size = TrioReadWideChar(self, &target[i], flags, 1);
    if (size == 0)
 break; /* for */

    i += size;
  }
 if (target)
  target[i] = WCONST('\0');
 return TRUE;
}
#endif /* TRIO_WIDECHAR */

/*************************************************************************
* TrioReadGroup
*
* FIXME: characterclass does not work with multibyte characters
*/
TRIO_PRIVATE BOOLEAN_T
TrioReadGroup
TRIO_ARGS5((self, target, characterclass, flags, width),
   trio_class_t *self,
   char *target,
   int *characterclass,
   trio_flags_t flags,
   int width)
{
 int ch;
 int i;

 assert(VALID(self));
 assert(VALID(self->InStream));

 ch = self->current;
 for (i = 0;
     ((width == NO_WIDTH) || (i < width)) &&
     (! ((ch == EOF) ||
   (((flags & FLAGS_EXCLUDE) != 0) ^ (characterclass[ch] == 0))));
     i++)
  {
    if (target)
 target[i] = (char)ch;
    self->InStream(self, &ch);
  }

 if (target)
```

```
  target[i] = NIL;
 return TRUE;
}

/*************************************************************************
* TrioReadDouble
*
* FIXME:
*  add long double
*  handle base
*/
TRIO_PRIVATE BOOLEAN_T
TrioReadDouble
TRIO_ARGS4((self, target, flags, width),
   trio_class_t *self,
   trio_pointer_t target,
   trio_flags_t flags,
   int width)
{
 int ch;
 char doubleString[512];
 int index = 0;
 int start;
 int j;
 BOOLEAN_T isHex = FALSE;

 doubleString[0] = 0;

 if ((width == NO_WIDTH) || (width > (int)sizeof(doubleString) - 1))
   width = sizeof(doubleString) - 1;

 TrioSkipWhitespaces(self);

 /*
  * Read entire double number from stream. trio_to_double requires
  * a string as input, but InStream can be anything, so we have to
  * collect all characters.
  */
 ch = self->current;
 if ((ch == '+') || (ch == '-'))
   {
     doubleString[index++] = (char)ch;
     self->InStream(self, &ch);
     width--;
   }

 start = index;
 switch (ch)
```

```
 {
 case 'n':
 case 'N':
   /* Not-a-number */
   if (index != 0)
break;
   /* FALLTHROUGH */
 case 'i':
 case 'I':
   /* Infinity */
   while (isalpha(ch) && (index - start < width))
{
 doubleString[index++] = (char)ch;
 self->InStream(self, &ch);
}
   doubleString[index] = NIL;

   /* Case insensitive string comparison */
   if (trio_equal(&doubleString[start], INFINITE_UPPER) ||
 trio_equal(&doubleString[start], LONG_INFINITE_UPPER))
{
 if (flags & FLAGS_LONGDOUBLE)
   {
    if ((start == 1) && (doubleString[0] == '-'))
 {
  *((trio_long_double_t *)target) = trio_ninf();
 }
    else
 {
  *((trio_long_double_t *)target) = trio_pinf();
 }
   }
 else
   {
    if ((start == 1) && (doubleString[0] == '-'))
 {
  *((double *)target) = trio_ninf();
 }
    else
 {
  *((double *)target) = trio_pinf();
 }
   }
 return TRUE;
}
   if (trio_equal(doubleString, NAN_UPPER))
{
 /* NaN must not have a preceeding + nor - */
```

```
 if (flags & FLAGS_LONGDOUBLE)
   {
    *((trio_long_double_t *)target) = trio_nan();
   }
 else
   {
    *((double *)target) = trio_nan();
   }
 return TRUE;
}
   return FALSE;

 case '0':
   doubleString[index++] = (char)ch;
   self->InStream(self, &ch);
   if (trio_to_upper(ch) == 'X')
{
 isHex = TRUE;
 doubleString[index++] = (char)ch;
 self->InStream(self, &ch);
}
   break;

 default:
   break;
 }

while ((ch != EOF) && (index - start < width))
 {
  /* Integer part */
   if (isHex ? isxdigit(ch) : isdigit(ch))
{
 doubleString[index++] = (char)ch;
 self->InStream(self, &ch);
}
   else if (flags & FLAGS_QUOTE)
{
 /* Compare with thousands separator */
 for (j = 0; internalThousandSeparator[j] && self->current; j++)
   {
    if (internalThousandSeparator[j] != self->current)
 break;

    self->InStream(self, &ch);
   }
 if (internalThousandSeparator[j])
   break; /* Mismatch */
 else
```

```
    continue; /* Match */
}
    else
break; /* while */
  }
if (ch == '.')
  {
    /* Decimal part */
    doubleString[index++] = (char)ch;
    self->InStream(self, &ch);
    while ((isHex ? isxdigit(ch) : isdigit(ch)) &&
     (index - start < width))
{
  doubleString[index++] = (char)ch;
  self->InStream(self, &ch);
}
    if (isHex ? (trio_to_upper(ch) == 'P') : (trio_to_upper(ch) == 'E'))
{
  /* Exponent */
  doubleString[index++] = (char)ch;
  self->InStream(self, &ch);
  if ((ch == '+') || (ch == '-'))
    {
      doubleString[index++] = (char)ch;
      self->InStream(self, &ch);
    }
  while (isdigit(ch) && (index - start < width))
    {
      doubleString[index++] = (char)ch;
      self->InStream(self, &ch);
    }
}
  }

if ((index == start) || (*doubleString == NIL))
  return FALSE;

doubleString[index] = 0;

if (flags & FLAGS_LONGDOUBLE)
  {
    *((trio_long_double_t *)target) = trio_to_long_double(doubleString, NULL);
  }
else
  {
    *((double *)target) = trio_to_double(doubleString, NULL);
  }
return TRUE;
```

```
}

/*************************************************************************
* TrioReadPointer
*/
TRIO_PRIVATE BOOLEAN_T
TrioReadPointer
TRIO_ARGS3((self, target, flags),
   trio_class_t *self,
   trio_pointer_t *target,
   trio_flags_t flags)
{
 trio_uintmax_t number;
 char buffer[sizeof(internalNullString)];

 flags |= (FLAGS_UNSIGNED | FLAGS_ALTERNATIVE | FLAGS_NILPADDING);

 if (TrioReadNumber(self,
      &number,
      flags,
      POINTER_WIDTH,
      BASE_HEX))
  {
   /*
    * The strange assignment of number is a workaround for a compiler
    * warning
    */
   if (target)
 *target = (char *)0 + number;
   return TRUE;
  }
 else if (TrioReadString(self,
    (flags & FLAGS_IGNORE)
    ? NULL
    : buffer,
    0,
    sizeof(internalNullString) - 1))
  {
   if (trio_equal_case(buffer, internalNullString))
 {
  if (target)
    *target = NULL;
  return TRUE;
 }
  }
 return FALSE;
}
```

```
/*************************************************************************
* TrioScanProcess
*/
TRIO_PRIVATE int
TrioScanProcess
TRIO_ARGS3((data, format, parameters),
   trio_class_t *data,
   TRIO_CONST char *format,
   trio_parameter_t *parameters)
{
#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
 int charlen;
 int cnt;
#endif
 int assignment;
 int ch;
 int index; /* Index of format string */
 int i; /* Index of current parameter */
 trio_flags_t flags;
 int width;
 int base;
 trio_pointer_t pointer;

 assignment = 0;
 i = 0;
 index = 0;
 data->InStream(data, &ch);

#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
 (void)mblen(NULL, 0);
#endif

 while (format[index])
   {
#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
    if (! isascii(format[index]))
 {
  charlen = mblen(&format[index], MB_LEN_MAX);
  if (charlen != -1)
    {
     /* Compare multibyte characters in format string */
     for (cnt = 0; cnt < charlen - 1; cnt++)
 {
   if (ch != format[index + cnt])
     {
      return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
     }
   data->InStream(data, &ch);
```

```
  }
      continue; /* while characters left in formatting string */
    }
  }
#endif /* TRIO_COMPILER_SUPPORTS_MULTIBYTE */

    if ((EOF == ch) && (parameters[i].type != FORMAT_COUNT))
  {
   return (assignment > 0) ? assignment : EOF;
  }

    if (CHAR_IDENTIFIER == format[index])
  {
   if (CHAR_IDENTIFIER == format[index + 1])
     {
       /* Two % in format matches one % in input stream */
       if (CHAR_IDENTIFIER == ch)
  {
    data->InStream(data, &ch);
    index += 2;
    continue; /* while format chars left */
  }
       else
   return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
     }

   /* Skip the parameter entries */
   while (parameters[i].type == FORMAT_PARAMETER)
     i++;

   flags = parameters[i].flags;
   /* Find width */
   width = parameters[i].width;
   if (flags & FLAGS_WIDTH_PARAMETER)
     {
       /* Get width from parameter list */
       width = (int)parameters[width].data.number.as_signed;
     }
   /* Find base */
   base = parameters[i].base;
   if (flags & FLAGS_BASE_PARAMETER)
     {
       /* Get base from parameter list */
       base = (int)parameters[base].data.number.as_signed;
     }

   switch (parameters[i].type)
     {
```

```
    case FORMAT_INT:
      {
  trio_uintmax_t number;

  if (0 == base)
    base = BASE_DECIMAL;

  if (!TrioReadNumber(data,
        &number,
        flags,
        width,
        base))
    return assignment;

  if (!(flags & FLAGS_IGNORE))
    {
      assignment++;

      pointer = parameters[i].data.pointer;
#if defined(QUALIFIER_SIZE_T) || defined(QUALIFIER_SIZE_T_UPPER)
      if (flags & FLAGS_SIZE_T)
        *(size_t *)pointer = (size_t)number;
      else
#endif
#if defined(QUALIFIER_PTRDIFF_T)
      if (flags & FLAGS_PTRDIFF_T)
        *(ptrdiff_t *)pointer = (ptrdiff_t)number;
      else
#endif
#if defined(QUALIFIER_INTMAX_T)
      if (flags & FLAGS_INTMAX_T)
        *(trio_intmax_t *)pointer = (trio_intmax_t)number;
      else
#endif
      if (flags & FLAGS_QUAD)
        *(trio_ulonglong_t *)pointer = (trio_ulonglong_t)number;
      else if (flags & FLAGS_LONG)
        *(long int *)pointer = (long int)number;
      else if (flags & FLAGS_SHORT)
        *(short int *)pointer = (short int)number;
      else
        *(int *)pointer = (int)number;
    }
      }
      break; /* FORMAT_INT */

    case FORMAT_STRING:
#if TRIO_WIDECHAR
```

```
      if (flags & FLAGS_WIDECHAR)
  {
    if (!TrioReadWideString(data,
      (flags & FLAGS_IGNORE)
      ? NULL
      : parameters[i].data.wstring,
      flags,
      width))
     return assignment;
  }
      else
#endif
  {
    if (!TrioReadString(data,
        (flags & FLAGS_IGNORE)
        ? NULL
        : parameters[i].data.string,
        flags,
        width))
     return assignment;
  }
      if (!(flags & FLAGS_IGNORE))
    assignment++;
      break; /* FORMAT_STRING */

     case FORMAT_DOUBLE:
       {
    trio_pointer_t pointer;

    if (flags & FLAGS_IGNORE)
      {
       pointer = NULL;
      }
    else
      {
       pointer = (flags & FLAGS_LONGDOUBLE)
         ? (trio_pointer_t)parameters[i].data.longdoublePointer
         : (trio_pointer_t)parameters[i].data.doublePointer;
      }
    if (!TrioReadDouble(data, pointer, flags, width))
      {
       return assignment;
      }
    if (!(flags & FLAGS_IGNORE))
      {
       assignment++;
      }
    break; /* FORMAT_DOUBLE */
```

```
      }
    case FORMAT_GROUP:
      {
  int characterclass[MAX_CHARACTER_CLASS + 1];
  int rc;

  /* Skip over modifiers */
  while (format[index] != SPECIFIER_GROUP)
    {
      index++;
    }
  /* Skip over group specifier */
  index++;

  memset(characterclass, 0, sizeof(characterclass));
  rc = TrioGetCharacterClass(format,
        &index,
        &flags,
        characterclass);
  if (rc < 0)
    return rc;

  if (!TrioReadGroup(data,
      (flags & FLAGS_IGNORE)
      ? NULL
      : parameters[i].data.string,
      characterclass,
      flags,
      parameters[i].width))
    return assignment;
  if (!(flags & FLAGS_IGNORE))
    assignment++;
      }
      break; /* FORMAT_GROUP */

    case FORMAT_COUNT:
      pointer = parameters[i].data.pointer;
      if (NULL != pointer)
  {
    int count = data->committed;
    if (ch != EOF)
      count--; /* a character is read, but is not consumed yet */
#if defined(QUALIFIER_SIZE_T) || defined(QUALIFIER_SIZE_T_UPPER)
    if (flags & FLAGS_SIZE_T)
      *(size_t *)pointer = (size_t)count;
    else
#endif
#if defined(QUALIFIER_PTRDIFF_T)
```

```
    if (flags & FLAGS_PTRDIFF_T)
      *(ptrdiff_t *)pointer = (ptrdiff_t)count;
    else
#endif
#if defined(QUALIFIER_INTMAX_T)
    if (flags & FLAGS_INTMAX_T)
      *(trio_intmax_t *)pointer = (trio_intmax_t)count;
    else
#endif
    if (flags & FLAGS_QUAD)
      {
        *(trio_ulonglong_t *)pointer = (trio_ulonglong_t)count;
      }
    else if (flags & FLAGS_LONG)
      {
        *(long int *)pointer = (long int)count;
      }
    else if (flags & FLAGS_SHORT)
      {
        *(short int *)pointer = (short int)count;
      }
    else
      {
        *(int *)pointer = (int)count;
      }
  }
      break; /* FORMAT_COUNT */

     case FORMAT_CHAR:
#if TRIO_WIDECHAR
      if (flags & FLAGS_WIDECHAR)
  {
    if (TrioReadWideChar(data,
          (flags & FLAGS_IGNORE)
          ? NULL
          : parameters[i].data.wstring,
          flags,
          (width == NO_WIDTH) ? 1 : width) == 0)
      return assignment;
  }
      else
#endif
  {
    if (TrioReadChar(data,
      (flags & FLAGS_IGNORE)
      ? NULL
      : parameters[i].data.string,
      flags,
```

```
      (width == NO_WIDTH) ? 1 : width) == 0)
     return assignment;
  }
     if (!(flags & FLAGS_IGNORE))
  assignment++;
     break; /* FORMAT_CHAR */

    case FORMAT_POINTER:
     if (!TrioReadPointer(data,
     (flags & FLAGS_IGNORE)
     ? NULL
     : (trio_pointer_t *)parameters[i].data.pointer,
     flags))
  return assignment;
     if (!(flags & FLAGS_IGNORE))
  assignment++;
     break; /* FORMAT_POINTER */

    case FORMAT_PARAMETER:
     break; /* FORMAT_PARAMETER */

    default:
     return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
    }
  ch = data->current;
  index = parameters[i].indexAfterSpecifier;
  i++;
}
    else /* Not an % identifier */
{
  if (isspace((int)format[index]))
    {
     /* Whitespaces may match any amount of whitespaces */
     ch = TrioSkipWhitespaces(data);
    }
  else if (ch == format[index])
    {
     data->InStream(data, &ch);
    }
  else
    return assignment;

  index++;
}
   }
 return assignment;
}
```

```
/*************************************************************************
* TrioScan
*/
TRIO_PRIVATE int
TrioScan
TRIO_ARGS6((source, sourceSize, InStream, format, arglist, argarray),
   trio_pointer_t source,
   size_t sourceSize,
   void (*InStream) TRIO_PROTO((trio_class_t *, int *)),
   TRIO_CONST char *format,
   va_list *arglist,
   trio_pointer_t *argarray)
{
 int status;
 trio_parameter_t parameters[MAX_PARAMETERS];
 trio_class_t data;

 assert(VALID(InStream));
 assert(VALID(format));

 memset(&data, 0, sizeof(data));
 data.InStream = InStream;
 data.location = (trio_pointer_t)source;
 data.max = sourceSize;
 data.error = 0;

#if defined(USE_LOCALE)
 if (NULL == internalLocaleValues)
   {
    TrioSetLocale();
   }
#endif

 status = TrioParse(TYPE_SCAN, format, parameters, arglist, argarray);
 if (status < 0)
  return status;

 status = TrioScanProcess(&data, format, parameters);
 if (data.error != 0)
   {
    status = data.error;
   }
 return status;
}

/*************************************************************************
* TrioInStreamFile
*/
```

```
TRIO_PRIVATE void
TrioInStreamFile
TRIO_ARGS2((self, intPointer),
   trio_class_t *self,
   int *intPointer)
{
 FILE *file = (FILE *)self->location;

 assert(VALID(self));
 assert(VALID(file));

 self->current = fgetc(file);
 if (self->current == EOF)
   {
    self->error = (ferror(file))
 ? TRIO_ERROR_RETURN(TRIO_ERRNO, 0)
 : TRIO_ERROR_RETURN(TRIO_EOF, 0);
   }
 else
   {
    self->processed++;
    self->committed++;
   }

 if (VALID(intPointer))
   {
    *intPointer = self->current;
   }
}

/*************************************************************************
* TrioInStreamFileDescriptor
*/
TRIO_PRIVATE void
TrioInStreamFileDescriptor
TRIO_ARGS2((self, intPointer),
   trio_class_t *self,
   int *intPointer)
{
 int fd = *((int *)self->location);
 int size;
 unsigned char input;

 assert(VALID(self));

 size = read(fd, &input, sizeof(char));
 if (size == -1)
   {
```

```
    self->error = TRIO_ERROR_RETURN(TRIO_ERRNO, 0);
    self->current = EOF;
  }
 else
  {
    self->current = (size == 0) ? EOF : input;
  }
 if (self->current != EOF)
  {
    self->committed++;
    self->processed++;
  }

 if (VALID(intPointer))
  {
    *intPointer = self->current;
  }
}

/*************************************************************************
* TrioInStreamCustom
*/
TRIO_PRIVATE void
TrioInStreamCustom
TRIO_ARGS2((self, intPointer),
   trio_class_t *self,
   int *intPointer)
{
 trio_custom_t *data;

 assert(VALID(self));
 assert(VALID(self->location));

 data = (trio_custom_t *)self->location;

 self->current = (data->stream.in == NULL)
  ? NIL
  : (data->stream.in)(data->closure);

 if (self->current == NIL)
  {
    self->current = EOF;
  }
 else
  {
    self->processed++;
    self->committed++;
  }
```

```
 if (VALID(intPointer))
   {
    *intPointer = self->current;
   }
}

/*************************************************************************
* TrioInStreamString
*/
TRIO_PRIVATE void
TrioInStreamString
TRIO_ARGS2((self, intPointer),
   trio_class_t *self,
   int *intPointer)
{
 unsigned char **buffer;

 assert(VALID(self));
 assert(VALID(self->location));

 buffer = (unsigned char **)self->location;
 self->current = (*buffer)[0];
 if (self->current == NIL)
   {
    self->current = EOF;
   }
 else
   {
    (*buffer)++;
    self->processed++;
    self->committed++;
   }

 if (VALID(intPointer))
   {
    *intPointer = self->current;
   }
}

/*************************************************************************
*
* Formatted scanning functions
*
*************************************************************************/

#if defined(TRIO_DOCUMENTATION)
# include "doc/doc_scanf.h"
```

```
#endif
/** @addtogroup Scanf
  @{
*/

/*************************************************************************
* scanf
*/

/**
  Scan characters from standard input stream.

  @param format Formatting string.
  @param ... Arguments.
  @return Number of scanned characters.
*/
TRIO_PUBLIC int
trio_scanf
TRIO_VARGS2((format, va_alist),
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
 int status;
 va_list args;

 assert(VALID(format));

 TRIO_VA_START(args, format);
 status = TrioScan((trio_pointer_t)stdin, 0,
     TrioInStreamFile,
     format, &args, NULL);
 TRIO_VA_END(args);
 return status;
}

TRIO_PUBLIC int
trio_vscanf
TRIO_ARGS2((format, args),
   TRIO_CONST char *format,
   va_list args)
{
 assert(VALID(format));

 return TrioScan((trio_pointer_t)stdin, 0,
   TrioInStreamFile,
   format, &args, NULL);
}
```

```
TRIO_PUBLIC int
trio_scanfv
TRIO_ARGS2((format, args),
   TRIO_CONST char *format,
   trio_pointer_t *args)
{
 assert(VALID(format));

 return TrioScan((trio_pointer_t)stdin, 0,
   TrioInStreamFile,
   format, NULL, args);
}

/*************************************************************************
* fscanf
*/
TRIO_PUBLIC int
trio_fscanf
TRIO_VARGS3((file, format, va_alist),
    FILE *file,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
 int status;
 va_list args;

 assert(VALID(file));
 assert(VALID(format));

 TRIO_VA_START(args, format);
 status = TrioScan((trio_pointer_t)file, 0,
     TrioInStreamFile,
     format, &args, NULL);
 TRIO_VA_END(args);
 return status;
}

TRIO_PUBLIC int
trio_vfscanf
TRIO_ARGS3((file, format, args),
   FILE *file,
   TRIO_CONST char *format,
   va_list args)
{
 assert(VALID(file));
 assert(VALID(format));

 return TrioScan((trio_pointer_t)file, 0,
```

```
   TrioInStreamFile,
   format, &args, NULL);
}

TRIO_PUBLIC int
trio_fscanfv
TRIO_ARGS3((file, format, args),
   FILE *file,
   TRIO_CONST char *format,
   trio_pointer_t *args)
{
 assert(VALID(file));
 assert(VALID(format));

 return TrioScan((trio_pointer_t)file, 0,
   TrioInStreamFile,
   format, NULL, args);
}

/*************************************************************************
* dscanf
*/
TRIO_PUBLIC int
trio_dscanf
TRIO_VARGS3((fd, format, va_alist),
    int fd,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
 int status;
 va_list args;

 assert(VALID(format));

 TRIO_VA_START(args, format);
 status = TrioScan((trio_pointer_t)&fd, 0,
     TrioInStreamFileDescriptor,
     format, &args, NULL);
 TRIO_VA_END(args);
 return status;
}

TRIO_PUBLIC int
trio_vdscanf
TRIO_ARGS3((fd, format, args),
   int fd,
   TRIO_CONST char *format,
   va_list args)
```

```
{
 assert(VALID(format));

 return TrioScan((trio_pointer_t)&fd, 0,
   TrioInStreamFileDescriptor,
   format, &args, NULL);
}

TRIO_PUBLIC int
trio_dscanfv
TRIO_ARGS3((fd, format, args),
   int fd,
   TRIO_CONST char *format,
   trio_pointer_t *args)
{
 assert(VALID(format));

 return TrioScan((trio_pointer_t)&fd, 0,
   TrioInStreamFileDescriptor,
   format, NULL, args);
}

/*************************************************************************
* cscanf
*/
TRIO_PUBLIC int
trio_cscanf
TRIO_VARGS4((stream, closure, format, va_alist),
    trio_instream_t stream,
    trio_pointer_t closure,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
 int status;
 va_list args;
 trio_custom_t data;

 assert(VALID(stream));
 assert(VALID(format));

 TRIO_VA_START(args, format);
 data.stream.in = stream;
 data.closure = closure;
 status = TrioScan(&data, 0, TrioInStreamCustom, format, &args, NULL);
 TRIO_VA_END(args);
 return status;
}
```

```
TRIO_PUBLIC int
trio_vcscanf
TRIO_ARGS4((stream, closure, format, args),
   trio_instream_t stream,
   trio_pointer_t closure,
   TRIO_CONST char *format,
   va_list args)
{
 trio_custom_t data;

 assert(VALID(stream));
 assert(VALID(format));

 data.stream.in = stream;
 data.closure = closure;
 return TrioScan(&data, 0, TrioInStreamCustom, format, &args, NULL);
}

TRIO_PUBLIC int
trio_cscanfv
TRIO_ARGS4((stream, closure, format, args),
   trio_instream_t stream,
   trio_pointer_t closure,
   TRIO_CONST char *format,
   trio_pointer_t *args)
{
 trio_custom_t data;

 assert(VALID(stream));
 assert(VALID(format));

 data.stream.in = stream;
 data.closure = closure;
 return TrioScan(&data, 0, TrioInStreamCustom, format, NULL, args);
}

/*************************************************************************
* sscanf
*/
TRIO_PUBLIC int
trio_sscanf
TRIO_VARGS3((buffer, format, va_alist),
    TRIO_CONST char *buffer,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
 int status;
 va_list args;
```

```
 assert(VALID(buffer));
 assert(VALID(format));

 TRIO_VA_START(args, format);
 status = TrioScan((trio_pointer_t)&buffer, 0,
     TrioInStreamString,
     format, &args, NULL);
 TRIO_VA_END(args);
 return status;
}

TRIO_PUBLIC int
trio_vsscanf
TRIO_ARGS3((buffer, format, args),
   TRIO_CONST char *buffer,
   TRIO_CONST char *format,
   va_list args)
{
 assert(VALID(buffer));
 assert(VALID(format));

 return TrioScan((trio_pointer_t)&buffer, 0,
   TrioInStreamString,
   format, &args, NULL);
}

TRIO_PUBLIC int
trio_sscanfv
TRIO_ARGS3((buffer, format, args),
   TRIO_CONST char *buffer,
   TRIO_CONST char *format,
   trio_pointer_t *args)
{
 assert(VALID(buffer));
 assert(VALID(format));

 return TrioScan((trio_pointer_t)&buffer, 0,
   TrioInStreamString,
   format, NULL, args);
}

/** @} End of Scanf documentation module */

/*************************************************************************
* trio_strerror
*/
TRIO_PUBLIC TRIO_CONST char *
```

```
trio_strerror
TRIO_ARGS1((errorcode),
    int errorcode)
{
 /* Textual versions of the error codes */
 switch (TRIO_ERROR_CODE(errorcode))
   {
   case TRIO_EOF:
     return "End of file";
   case TRIO_EINVAL:
     return "Invalid argument";
   case TRIO_ETOOMANY:
     return "Too many arguments";
   case TRIO_EDBLREF:
     return "Double reference";
   case TRIO_EGAP:
     return "Reference gap";
   case TRIO_ENOMEM:
     return "Out of memory";
   case TRIO_ERANGE:
     return "Invalid range";
   case TRIO_ECUSTOM:
     return "Custom error";
   default:
     return "Unknown";
   }
}
```

4.87 libxml2 2.9.1 :Jul 10 2009 Daniel Veillard

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software

sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*   as needed. This means that data must always be copied to create
*   the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*   Fix is simple: make large buffers large enough to hold entire
*   SDU, and leave <small_buffer_data> bytes empty at the start. Then
*   copy small buffer contents to head of large buffer.

```
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
*          combined, allow nicstar_free_rx_skb to be called to
*          recycle large data buffers
*      2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*    details.
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/
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4.93 lsof 4.87

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4.94 lsof_GPLv2 4.86

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4.95 lsof_LGPL 4.86

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4.97 mdadm 3.2.6

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4.100 module-init-tools 3.10 :ASA

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4.101 ncurses 5.9

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4.102 ncurses 5.9

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4.103 net-snmp 5.7.2

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4.105 netbase 5.1

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4.106 netfs 6.0

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4.107 netmap 2014.08.14

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4.108 NRL IPsec key.h 1.1a

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4.110 ntp 4.2.6p5

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*                                                                   *
*********************************************************************
```

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46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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4.111 numactl 2.0.8 :rc4

4.111.1 Available under license :

Simple NUMA policy support. It consists of a numactl program to run
other programs with a specific NUMA policy and a libnuma shared library
("NUMA API") to set NUMA policy in applications.

The libnuma binary interface is supposed to stay binary compatible.
Incompatible changes will use new symbol version numbers.

In addition there are various test and utility programs, like
numastat to display NUMA allocation statistics and memhog.

In test there is a small regression test suite.
Note that regress assumes a unloaded machine with memory free on each
node. Otherwise you will get spurious failures in the non strict
policies (prefered, interleave)

See the manpages numactl.8 and numa.3 for details.

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numademo links with a library derived from the C version of STREAM
by John D. McCalpin and Joe R. Zagar for one sub benchmark. See stream_lib.c
for the license. In particular when you publish numademo output
you might need to pay attention there or filter out the STREAM results.

It also uses a public domain Mersenne Twister implementation from
Michael Brundage.

Version 2.0.8-rc4: (C)2012 SGI

Author:
Andi Kleen, SUSE Labs

Version 2.0.0 by Cliff Wickman, Christoph Lameter and Lee Schermerhorn
cpw@sgi.com clameter@sgi.com lee.schermerhorn@hp.com

4.112 Opensource FreeBSD E1000 network driver - Intel Developed All file revisions are

1.3 under FreeBSD src/sys/dev/e1000/

4.112.1 Available under license :

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4.113 openssh 6.2p2

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have been removed from OpenSSH, i.e.,

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- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
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 *
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4.117 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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4.118 opkg 0.1.8+svnr653

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4.119 Packet allocation and deallocation routines 1.3.2

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4.120 pci.ids 2009.10.22 :ASA

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4.122 Perl 5.14.3

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program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

4.123 pkgconfig 0.28 :3.fc20

4.123.1 Available under license :

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Version 2, June 1991

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4.124 pm-utils 1.4.1

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope

Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes

2.6.5	2.6.4	2010	PSF	yes
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4.131 qsort.c 1.1.1.1

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```

4.132 queue.h 1.32.2.7

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*
* @(#)queue.h 8.5 (Berkeley) 8/20/94
* $FreeBSD: src/sys/sys/queue.h,v 1.32.2.7 2002/04/17 14:21:02 des Exp $
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4.133 queue.h 1.18

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* @(#)queue.h 8.5 (Berkeley) 8/20/94
*/
```

4.134 rand.c 1.6

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4.135 readline 6.2

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4.137 require.js 2.1.6

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4.149 smartmontools 5.42

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4.150 smbfs 1.4

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4.152 strace 4.8

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4.153 strcasecmp.c 1.4

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4.154 strcat_end strcat_end.c 8.1 (Berkeley) 6/4/93

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4.155 strcspn.c 1.5

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4.156 strlcat.c 1.2

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4.157 strlcpy.c 1.4

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4.159 strpbrk.c 1.7

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4.160 strsep.c 1.11

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4.161 strspn.c 1.5

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4.162 strstr.c 1.1.1.1

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4.163 strtod.c 1.50

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4.164 strtok.c 1.5

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4.169 struct.h 1.1.1.2

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4.171 syslog-ng 3.6.2

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====

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/* A Bison parser, made by GNU Bison 3.0.2. */

/* Bison implementation for Yacc-like parsers in C

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```
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   version 2.2 of Bison.  */

/* C LALR(1) parser skeleton written by Richard Stallman, by
   simplifying the original so-called "semantic" parser.  */

/* All symbols defined below should begin with yy or YY, to avoid
   infringing on user name space.  This should be done even for local
   variables, as they might otherwise be expanded by user macros.
   There are some unavoidable exceptions within include files to
   define necessary library symbols; they are noted "INFRINGES ON
   USER NAME SPACE" below.  */

/* Identify Bison output.  */
#define YYBISON 1

/* Bison version.  */
#define YYBISON_VERSION "3.0.2"

/* Skeleton name.  */
#define YYSKELETON_NAME "yacc.c"

/* Pure parsers.  */
#define YYPURE 1

/* Push parsers.  */
#define YYPUSH 0

/* Pull parsers.  */
#define YYPULL 1



/* Substitute the variable and function names.  */
#define yyparse         rewrite_expr_parse
#define yylex           rewrite_expr_lex
#define yyerror         rewrite_expr_error
#define yydebug         rewrite_expr_debug
#define yynerrs         rewrite_expr_nerrs
```

```
/* Copy the first part of user declarations.  */

#line 73 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:339  */

# ifndef YY_NULLPTR
#  if defined __cplusplus && 201103L <= __cplusplus
#   define YY_NULLPTR nullptr
#  else
#   define YY_NULLPTR 0
#  endif
# endif

/* Enabling verbose error messages.  */
#ifdef YYERROR_VERBOSE
# undef YYERROR_VERBOSE
# define YYERROR_VERBOSE 1
#else
# define YYERROR_VERBOSE 1
#endif

/* In a future release of Bison, this section will be replaced
  by #include "y.tab.h".  */
#ifndef YY_REWRITE_EXPR_LIB_REWRITE_REWRITE_EXPR_GRAMMAR_H_INCLUDED
# define YY_REWRITE_EXPR_LIB_REWRITE_REWRITE_EXPR_GRAMMAR_H_INCLUDED
/* Debug traces.  */
#ifndef YYDEBUG
# define YYDEBUG 0
#endif
#if YYDEBUG
extern int rewrite_expr_debug;
#endif
/* "%code requires" blocks.  */
#line 25 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:355  */


#include "rewrite/rewrite-expr-parser.h"


#line 109 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:355  */

/* Token type.  */
#ifndef YYTOKENTYPE
# define YYTOKENTYPE
 enum yytokentype
 {
   LL_CONTEXT_ROOT = 1,
   LL_CONTEXT_DESTINATION = 2,
```

```
LL_CONTEXT_SOURCE = 3,
LL_CONTEXT_PARSER = 4,
LL_CONTEXT_REWRITE = 5,
LL_CONTEXT_FILTER = 6,
LL_CONTEXT_LOG = 7,
LL_CONTEXT_BLOCK_DEF = 8,
LL_CONTEXT_BLOCK_REF = 9,
LL_CONTEXT_BLOCK_CONTENT = 10,
LL_CONTEXT_BLOCK_ARG = 11,
LL_CONTEXT_PRAGMA = 12,
LL_CONTEXT_FORMAT = 13,
LL_CONTEXT_TEMPLATE_FUNC = 14,
LL_CONTEXT_INNER_DEST = 15,
LL_CONTEXT_INNER_SRC = 16,
LL_CONTEXT_CLIENT_PROTO = 17,
LL_CONTEXT_SERVER_PROTO = 18,
KW_SOURCE = 10000,
KW_FILTER = 10001,
KW_PARSER = 10002,
KW_DESTINATION = 10003,
KW_LOG = 10004,
KW_OPTIONS = 10005,
KW_INCLUDE = 10006,
KW_BLOCK = 10007,
KW_JUNCTION = 10008,
KW_CHANNEL = 10009,
KW_INTERNAL = 10010,
KW_FILE = 10011,
KW_SQL = 10030,
KW_TYPE = 10031,
KW_COLUMNS = 10032,
KW_INDEXES = 10033,
KW_VALUES = 10034,
KW_PASSWORD = 10035,
KW_DATABASE = 10036,
KW_USERNAME = 10037,
KW_TABLE = 10038,
KW_ENCODING = 10039,
KW_SESSION_STATEMENTS = 10040,
KW_DELIMITERS = 10050,
KW_QUOTES = 10051,
KW_QUOTE_PAIRS = 10052,
KW_NULL = 10053,
KW_SYSLOG = 10060,
KW_MARK_FREQ = 10071,
KW_STATS_FREQ = 10072,
KW_STATS_LEVEL = 10073,
KW_STATS_LIFETIME = 10074,
```

KW_FLUSH_LINES = 10075,
KW_SUPPRESS = 10076,
KW_FLUSH_TIMEOUT = 10077,
KW_LOG_MSG_SIZE = 10078,
KW_FILE_TEMPLATE = 10079,
KW_PROTO_TEMPLATE = 10080,
KW_MARK_MODE = 10081,
KW_CHAIN_HOSTNAMES = 10090,
KW_NORMALIZE_HOSTNAMES = 10091,
KW_KEEP_HOSTNAME = 10092,
KW_CHECK_HOSTNAME = 10093,
KW_BAD_HOSTNAME = 10094,
KW_KEEP_TIMESTAMP = 10100,
KW_USE_DNS = 10110,
KW_USE_FQDN = 10111,
KW_CUSTOM_DOMAIN = 10112,
KW_DNS_CACHE = 10120,
KW_DNS_CACHE_SIZE = 10121,
KW_DNS_CACHE_EXPIRE = 10130,
KW_DNS_CACHE_EXPIRE_FAILED = 10131,
KW_DNS_CACHE_HOSTS = 10132,
KW_PERSIST_ONLY = 10140,
KW_USE_RCPTID = 10141,
KW_TZ_CONVERT = 10150,
KW_TS_FORMAT = 10151,
KW_FRAC_DIGITS = 10152,
KW_LOG_FIFO_SIZE = 10160,
KW_LOG_FETCH_LIMIT = 10162,
KW_LOG_IW_SIZE = 10163,
KW_LOG_PREFIX = 10164,
KW_PROGRAM_OVERRIDE = 10165,
KW_HOST_OVERRIDE = 10166,
KW_THROTTLE = 10170,
KW_THREADED = 10171,
KW_FLAGS = 10190,
KW_PAD_SIZE = 10200,
KW_TIME_ZONE = 10201,
KW_RECV_TIME_ZONE = 10202,
KW_SEND_TIME_ZONE = 10203,
KW_LOCAL_TIME_ZONE = 10204,
KW_FORMAT = 10205,
KW_TIME_REOPEN = 10210,
KW_TIME_REAP = 10211,
KW_TIME_SLEEP = 10212,
KW_TMPL_ESCAPE = 10220,
KW_OPTIONAL = 10230,
KW_CREATE_DIRS = 10240,
KW_OWNER = 10250,

KW_GROUP = 10251,
KW_PERM = 10252,
KW_DIR_OWNER = 10260,
KW_DIR_GROUP = 10261,
KW_DIR_PERM = 10262,
KW_TEMPLATE = 10270,
KW_TEMPLATE_ESCAPE = 10271,
KW_DEFAULT_FACILITY = 10300,
KW_DEFAULT_LEVEL = 10301,
KW_PORT = 10323,
KW_USE_TIME_RECVD = 10340,
KW_FACILITY = 10350,
KW_LEVEL = 10351,
KW_HOST = 10352,
KW_MATCH = 10353,
KW_MESSAGE = 10354,
KW_NETMASK = 10355,
KW_TAGS = 10356,
KW_VALUE = 10361,
KW_REWRITE = 10370,
KW_SET = 10371,
KW_SUBST = 10372,
KW_YES = 10380,
KW_NO = 10381,
KW_IFDEF = 10410,
KW_ENDIF = 10411,
LL_DOTDOT = 10420,
LL_IDENTIFIER = 10421,
LL_NUMBER = 10422,
LL_FLOAT = 10423,
LL_STRING = 10424,
LL_TOKEN = 10425,
LL_BLOCK = 10426,
LL_PRAGMA = 10427,
LL_EOL = 10428,
LL_ERROR = 10429,
KW_VALUE_PAIRS = 10500,
KW_SELECT = 10501,
KW_EXCLUDE = 10502,
KW_PAIR = 10503,
KW_KEY = 10504,
KW_SCOPE = 10505,
KW_SHIFT = 10506,
KW_REKEY = 10507,
KW_ADD_PREFIX = 10508,
KW_REPLACE_PREFIX = 10509,
KW_ON_ERROR = 10510,
KW_RETRIES = 10511,

```
  KW_CONDITION = 10513,
  KW_SET_TAG = 10514,
  KW_CLEAR_TAG = 10515,
  KW_GROUP_SET = 10516
 };
#endif
/* Tokens.  */
#define LL_CONTEXT_ROOT 1
#define LL_CONTEXT_DESTINATION 2
#define LL_CONTEXT_SOURCE 3
#define LL_CONTEXT_PARSER 4
#define LL_CONTEXT_REWRITE 5
#define LL_CONTEXT_FILTER 6
#define LL_CONTEXT_LOG 7
#define LL_CONTEXT_BLOCK_DEF 8
#define LL_CONTEXT_BLOCK_REF 9
#define LL_CONTEXT_BLOCK_CONTENT 10
#define LL_CONTEXT_BLOCK_ARG 11
#define LL_CONTEXT_PRAGMA 12
#define LL_CONTEXT_FORMAT 13
#define LL_CONTEXT_TEMPLATE_FUNC 14
#define LL_CONTEXT_INNER_DEST 15
#define LL_CONTEXT_INNER_SRC 16
#define LL_CONTEXT_CLIENT_PROTO 17
#define LL_CONTEXT_SERVER_PROTO 18
#define KW_SOURCE 10000
#define KW_FILTER 10001
#define KW_PARSER 10002
#define KW_DESTINATION 10003
#define KW_LOG 10004
#define KW_OPTIONS 10005
#define KW_INCLUDE 10006
#define KW_BLOCK 10007
#define KW_JUNCTION 10008
#define KW_CHANNEL 10009
#define KW_INTERNAL 10010
#define KW_FILE 10011
#define KW_SQL 10030
#define KW_TYPE 10031
#define KW_COLUMNS 10032
#define KW_INDEXES 10033
#define KW_VALUES 10034
#define KW_PASSWORD 10035
#define KW_DATABASE 10036
#define KW_USERNAME 10037
#define KW_TABLE 10038
#define KW_ENCODING 10039
#define KW_SESSION_STATEMENTS 10040
```

```
#define KW_DELIMITERS 10050
#define KW_QUOTES 10051
#define KW_QUOTE_PAIRS 10052
#define KW_NULL 10053
#define KW_SYSLOG 10060
#define KW_MARK_FREQ 10071
#define KW_STATS_FREQ 10072
#define KW_STATS_LEVEL 10073
#define KW_STATS_LIFETIME 10074
#define KW_FLUSH_LINES 10075
#define KW_SUPPRESS 10076
#define KW_FLUSH_TIMEOUT 10077
#define KW_LOG_MSG_SIZE 10078
#define KW_FILE_TEMPLATE 10079
#define KW_PROTO_TEMPLATE 10080
#define KW_MARK_MODE 10081
#define KW_CHAIN_HOSTNAMES 10090
#define KW_NORMALIZE_HOSTNAMES 10091
#define KW_KEEP_HOSTNAME 10092
#define KW_CHECK_HOSTNAME 10093
#define KW_BAD_HOSTNAME 10094
#define KW_KEEP_TIMESTAMP 10100
#define KW_USE_DNS 10110
#define KW_USE_FQDN 10111
#define KW_CUSTOM_DOMAIN 10112
#define KW_DNS_CACHE 10120
#define KW_DNS_CACHE_SIZE 10121
#define KW_DNS_CACHE_EXPIRE 10130
#define KW_DNS_CACHE_EXPIRE_FAILED 10131
#define KW_DNS_CACHE_HOSTS 10132
#define KW_PERSIST_ONLY 10140
#define KW_USE_RCPTID 10141
#define KW_TZ_CONVERT 10150
#define KW_TS_FORMAT 10151
#define KW_FRAC_DIGITS 10152
#define KW_LOG_FIFO_SIZE 10160
#define KW_LOG_FETCH_LIMIT 10162
#define KW_LOG_IW_SIZE 10163
#define KW_LOG_PREFIX 10164
#define KW_PROGRAM_OVERRIDE 10165
#define KW_HOST_OVERRIDE 10166
#define KW_THROTTLE 10170
#define KW_THREADED 10171
#define KW_FLAGS 10190
#define KW_PAD_SIZE 10200
#define KW_TIME_ZONE 10201
#define KW_RECV_TIME_ZONE 10202
#define KW_SEND_TIME_ZONE 10203
```

```
#define KW_LOCAL_TIME_ZONE 10204
#define KW_FORMAT 10205
#define KW_TIME_REOPEN 10210
#define KW_TIME_REAP 10211
#define KW_TIME_SLEEP 10212
#define KW_TMPL_ESCAPE 10220
#define KW_OPTIONAL 10230
#define KW_CREATE_DIRS 10240
#define KW_OWNER 10250
#define KW_GROUP 10251
#define KW_PERM 10252
#define KW_DIR_OWNER 10260
#define KW_DIR_GROUP 10261
#define KW_DIR_PERM 10262
#define KW_TEMPLATE 10270
#define KW_TEMPLATE_ESCAPE 10271
#define KW_DEFAULT_FACILITY 10300
#define KW_DEFAULT_LEVEL 10301
#define KW_PORT 10323
#define KW_USE_TIME_RECVD 10340
#define KW_FACILITY 10350
#define KW_LEVEL 10351
#define KW_HOST 10352
#define KW_MATCH 10353
#define KW_MESSAGE 10354
#define KW_NETMASK 10355
#define KW_TAGS 10356
#define KW_VALUE 10361
#define KW_REWRITE 10370
#define KW_SET 10371
#define KW_SUBST 10372
#define KW_YES 10380
#define KW_NO 10381
#define KW_IFDEF 10410
#define KW_ENDIF 10411
#define LL_DOTDOT 10420
#define LL_IDENTIFIER 10421
#define LL_NUMBER 10422
#define LL_FLOAT 10423
#define LL_STRING 10424
#define LL_TOKEN 10425
#define LL_BLOCK 10426
#define LL_PRAGMA 10427
#define LL_EOL 10428
#define LL_ERROR 10429
#define KW_VALUE_PAIRS 10500
#define KW_SELECT 10501
#define KW_EXCLUDE 10502
```

```
#define KW_PAIR 10503
#define KW_KEY 10504
#define KW_SCOPE 10505
#define KW_SHIFT 10506
#define KW_REKEY 10507
#define KW_ADD_PREFIX 10508
#define KW_REPLACE_PREFIX 10509
#define KW_ON_ERROR 10510
#define KW_RETRIES 10511
#define KW_CONDITION 10513
#define KW_SET_TAG 10514
#define KW_CLEAR_TAG 10515
#define KW_GROUP_SET 10516

/* Value type.  */

/* Location type.  */
#if ! defined YYLTYPE && ! defined YYLTYPE_IS_DECLARED
typedef struct YYLTYPE YYLTYPE;
struct YYLTYPE
{
 int first_line;
 int first_column;
 int last_line;
 int last_column;
};
# define YYLTYPE_IS_DECLARED 1
# define YYLTYPE_IS_TRIVIAL 1
#endif



int rewrite_expr_parse (CfgLexer *lexer, LogExprNode **result, gpointer arg);

#endif /* !YY_REWRITE_EXPR_LIB_REWRITE_REWRITE_EXPR_GRAMMAR_H_INCLUDED  */

/* Copy the second part of user declarations.  */

#line 444 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:358  */
/* Unqualified %code blocks.  */
#line 31 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:359  */


#include "rewrite/rewrite-expr-grammar.h"
#include "rewrite/rewrite-set-tag.h"
#include "rewrite/rewrite-set.h"
#include "rewrite/rewrite-subst.h"
#include "rewrite/rewrite-groupset.h"
```

```
#include "filter/filter-expr.h"
#include "filter/filter-expr-parser.h"
#include "cfg-grammar.h"
#include "syslog-names.h"
#include "plugin.h"

#include <string.h>

LogRewrite *last_rewrite;

#line 67 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:359  */


# define YYLLOC_DEFAULT(Current, Rhs, N)                                \
 do {                                                                   \
   if (N)                                                               \
     {                                                                  \
       (Current).level = YYRHSLOC(Rhs, 1).level;                       \
       (Current).first_line   = YYRHSLOC (Rhs, 1).first_line;          \
       (Current).first_column = YYRHSLOC (Rhs, 1).first_column;        \
       (Current).last_line    = YYRHSLOC (Rhs, N).last_line;           \
       (Current).last_column  = YYRHSLOC (Rhs, N).last_column;         \
     }                                                                  \
   else                                                                 \
     {                                                                  \
       (Current).level = YYRHSLOC(Rhs, 0).level;                       \
       (Current).first_line   = (Current).last_line   =                \
         YYRHSLOC (Rhs, 0).last_line;                                   \
       (Current).first_column = (Current).last_column =                \
         YYRHSLOC (Rhs, 0).last_column;                                 \
     }                                                                  \
 } while (0)

#define CHECK_ERROR_WITHOUT_MESSAGE(val, token) do {                    \
   if (!(val))                                                          \
     {                                                                  \
       YYERROR;                                                         \
     }                                                                  \
 } while (0)

#define CHECK_ERROR(val, token, errorfmt, ...) do {                     \
   if (!(val))                                                          \
     {                                                                  \
       if (errorfmt)                                                    \
         {                                                              \
           gchar __buf[256];                                            \
           g_snprintf(__buf, sizeof(__buf), errorfmt, ## __VA_ARGS__); \
           yyerror(& (token), lexer, NULL, NULL, __buf);                \
```

```
      }                                         \
     YYERROR;                                   \
    }                                           \
 } while (0)

#define CHECK_ERROR_GERROR(val, token, error, errorfmt, ...) do {       \
  if (!(val))                                     \
    {                                           \
      if (errorfmt)                                 \
        {                                       \
          gchar __buf[256];                             \
          g_snprintf(__buf, sizeof(__buf), errorfmt ", error=%s", ## __VA_ARGS__, error->message); \
          yyerror(& (token), lexer, NULL, NULL, __buf);             \
        }                                       \
      g_clear_error(&error);      \
      YYERROR;                                  \
    }                                           \
 } while (0)

#define YYMAXDEPTH 20000



#line 525 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:359  */

#ifdef short
# undef short
#endif

#ifdef YYTYPE_UINT8
typedef YYTYPE_UINT8 yytype_uint8;
#else
typedef unsigned char yytype_uint8;
#endif

#ifdef YYTYPE_INT8
typedef YYTYPE_INT8 yytype_int8;
#else
typedef signed char yytype_int8;
#endif

#ifdef YYTYPE_UINT16
typedef YYTYPE_UINT16 yytype_uint16;
#else
typedef unsigned short int yytype_uint16;
#endif

#ifdef YYTYPE_INT16
```

```
typedef YYTYPE_INT16 yytype_int16;
#else
typedef short int yytype_int16;
#endif

#ifndef YYSIZE_T
# ifdef __SIZE_TYPE__
#  define YYSIZE_T __SIZE_TYPE__
# elif defined size_t
#  define YYSIZE_T size_t
# elif ! defined YYSIZE_T
#  include <stddef.h> /* INFRINGES ON USER NAME SPACE */
#  define YYSIZE_T size_t
# else
#  define YYSIZE_T unsigned int
# endif
#endif

#define YYSIZE_MAXIMUM ((YYSIZE_T) -1)

#ifndef YY_
# if defined YYENABLE_NLS && YYENABLE_NLS
#  if ENABLE_NLS
#   include <libintl.h> /* INFRINGES ON USER NAME SPACE */
#   define YY_(Msgid) dgettext ("bison-runtime", Msgid)
#  endif
# endif
# ifndef YY_
#  define YY_(Msgid) Msgid
# endif
#endif

#ifndef YY_ATTRIBUTE
# if (defined __GNUC__                                               \
    && (2 < __GNUC__ || (__GNUC__ == 2 && 96 <= __GNUC_MINOR__)))  \
   || defined __SUNPRO_C && 0x5110 <= __SUNPRO_C
#  define YY_ATTRIBUTE(Spec) __attribute__(Spec)
# else
#  define YY_ATTRIBUTE(Spec) /* empty */
# endif
#endif

#ifndef YY_ATTRIBUTE_PURE
# define YY_ATTRIBUTE_PURE   YY_ATTRIBUTE ((__pure__))
#endif

#ifndef YY_ATTRIBUTE_UNUSED
# define YY_ATTRIBUTE_UNUSED YY_ATTRIBUTE ((__unused__))
```

```
#endif

#if !defined _Noreturn \
   && (!defined __STDC_VERSION__ || __STDC_VERSION__ < 201112)
# if defined _MSC_VER && 1200 <= _MSC_VER
#  define _Noreturn __declspec (noreturn)
# else
#  define _Noreturn YY_ATTRIBUTE ((__noreturn__))
# endif
#endif

/* Suppress unused-variable warnings by "using" E.  */
#if ! defined lint || defined __GNUC__
# define YYUSE(E) ((void) (E))
#else
# define YYUSE(E) /* empty */
#endif

#if defined __GNUC__ && 407 <= __GNUC__ * 100 + __GNUC_MINOR__
/* Suppress an incorrect diagnostic about yylval being uninitialized.  */
# define YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN \
  _Pragma ("GCC diagnostic push") \
  _Pragma ("GCC diagnostic ignored \"-Wuninitialized\"")\
  _Pragma ("GCC diagnostic ignored \"-Wmaybe-uninitialized\"")
# define YY_IGNORE_MAYBE_UNINITIALIZED_END \
  _Pragma ("GCC diagnostic pop")
#else
# define YY_INITIAL_VALUE(Value) Value
#endif
#ifndef YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
# define YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
# define YY_IGNORE_MAYBE_UNINITIALIZED_END
#endif
#ifndef YY_INITIAL_VALUE
# define YY_INITIAL_VALUE(Value) /* Nothing. */
#endif


#if ! defined yyoverflow || YYERROR_VERBOSE

/* The parser invokes alloca or malloc; define the necessary symbols.  */

# ifdef YYSTACK_USE_ALLOCA
#  if YYSTACK_USE_ALLOCA
#   ifdef __GNUC__
#    define YYSTACK_ALLOC __builtin_alloca
#   elif defined __BUILTIN_VA_ARG_INCR
#    include <alloca.h> /* INFRINGES ON USER NAME SPACE */
```

```
#   elif defined _AIX
#    define YYSTACK_ALLOC __alloca
#   elif defined _MSC_VER
#    include <malloc.h> /* INFRINGES ON USER NAME SPACE */
#    define alloca _alloca
#   else
#    define YYSTACK_ALLOC alloca
#    if ! defined _ALLOCA_H && ! defined EXIT_SUCCESS
#     include <stdlib.h> /* INFRINGES ON USER NAME SPACE */
     /* Use EXIT_SUCCESS as a witness for stdlib.h.  */
#     ifndef EXIT_SUCCESS
#      define EXIT_SUCCESS 0
#     endif
#    endif
#   endif
#  endif
# endif

# ifdef YYSTACK_ALLOC
  /* Pacify GCC's 'empty if-body' warning.  */
#  define YYSTACK_FREE(Ptr) do { /* empty */; } while (0)
#  ifndef YYSTACK_ALLOC_MAXIMUM
    /* The OS might guarantee only one guard page at the bottom of the stack,
       and a page size can be as small as 4096 bytes.  So we cannot safely
       invoke alloca (N) if N exceeds 4096.  Use a slightly smaller number
       to allow for a few compiler-allocated temporary stack slots.  */
#   define YYSTACK_ALLOC_MAXIMUM 4032 /* reasonable circa 2006 */
#  endif
# else
#  define YYSTACK_ALLOC YYMALLOC
#  define YYSTACK_FREE YYFREE
#  ifndef YYSTACK_ALLOC_MAXIMUM
#   define YYSTACK_ALLOC_MAXIMUM YYSIZE_MAXIMUM
#  endif
#  if (defined __cplusplus && ! defined EXIT_SUCCESS \
      && ! ((defined YYMALLOC || defined malloc) \
            && (defined YYFREE || defined free)))
#   include <stdlib.h> /* INFRINGES ON USER NAME SPACE */
#   ifndef EXIT_SUCCESS
#    define EXIT_SUCCESS 0
#   endif
#  endif
#  ifndef YYMALLOC
#   define YYMALLOC malloc
#   if ! defined malloc && ! defined EXIT_SUCCESS
void *malloc (YYSIZE_T); /* INFRINGES ON USER NAME SPACE */
#   endif
#  endif
```

```
#  ifndef YYFREE
#   define YYFREE free
#   if ! defined free && ! defined EXIT_SUCCESS
void free (void *); /* INFRINGES ON USER NAME SPACE */
#   endif
#  endif
# endif
#endif /* ! defined yyoverflow || YYERROR_VERBOSE */


#if (! defined yyoverflow \
   && (! defined __cplusplus \
      || (defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL \
         && defined YYSTYPE_IS_TRIVIAL && YYSTYPE_IS_TRIVIAL)))

/* A type that is properly aligned for any stack member.  */
union yyalloc
{
 yytype_int16 yyss_alloc;
 YYSTYPE yyvs_alloc;
 YYLTYPE yyls_alloc;
};

/* The size of the maximum gap between one aligned stack and the next.  */
# define YYSTACK_GAP_MAXIMUM (sizeof (union yyalloc) - 1)

/* The size of an array large to enough to hold all stacks, each with
  N elements.  */
# define YYSTACK_BYTES(N) \
   ((N) * (sizeof (yytype_int16) + sizeof (YYSTYPE) + sizeof (YYLTYPE)) \
    + 2 * YYSTACK_GAP_MAXIMUM)

# define YYCOPY_NEEDED 1

/* Relocate STACK from its old location to the new one.  The
  local variables YYSIZE and YYSTACKSIZE give the old and new number of
  elements in the stack, and YYPTR gives the new location of the
  stack.  Advance YYPTR to a properly aligned location for the next
  stack.  */
# define YYSTACK_RELOCATE(Stack_alloc, Stack)                     \
   do                                                             \
    {                                                             \
      YYSIZE_T yynewbytes;                                        \
      YYCOPY (&yyptr->Stack_alloc, Stack, yysize);                \
      Stack = &yyptr->Stack_alloc;                                \
      yynewbytes = yystacksize * sizeof (*Stack) + YYSTACK_GAP_MAXIMUM; \
      yyptr += yynewbytes / sizeof (*yyptr);                      \
    }                                                             \
```

```
  while (0)

#endif

#if defined YYCOPY_NEEDED && YYCOPY_NEEDED
/* Copy COUNT objects from SRC to DST.  The source and destination do
  not overlap.  */
# ifndef YYCOPY
#  if defined __GNUC__ && 1 < __GNUC__
#   define YYCOPY(Dst, Src, Count) \
    __builtin_memcpy (Dst, Src, (Count) * sizeof (*(Src)))
#  else
#   define YYCOPY(Dst, Src, Count)            \
    do                                  \
      {                                 \
        YYSIZE_T yyi;                   \
        for (yyi = 0; yyi < (Count); yyi++)   \
          (Dst)[yyi] = (Src)[yyi];          \
      }                                 \
    while (0)
#  endif
# endif
#endif /* !YYCOPY_NEEDED */

/* YYFINAL -- State number of the termination state.  */
#define YYFINAL  18
/* YYLAST -- Last index in YYTABLE.  */
#define YYLAST   205

/* YYNTOKENS -- Number of terminals.  */
#define YYNTOKENS  159
/* YYNNTS -- Number of nonterminals.  */
#define YYNNTS  57
/* YYNRULES -- Number of rules.  */
#define YYNRULES  110
/* YYNSTATES -- Number of states.  */
#define YYNSTATES  232

/* YYTRANSLATE[YYX] -- Symbol number corresponding to YYX as returned
  by yylex, with out-of-bounds checking.  */
#define YYUNDEFTOK  2
#define YYMAXUTOK   10516

#define YYTRANSLATE(YYX)                                \
 ((unsigned int) (YYX) <= YYMAXUTOK ? yytranslate[YYX] : YYUNDEFTOK)

/* YYTRANSLATE[TOKEN-NUM] -- Symbol number corresponding to TOKEN-NUM
  as returned by yylex, without out-of-bounds checking.  */
```

```
static const yytype_uint8 yytranslate[] =
{
       0,     3,     4,     5,     6,     7,     8,     9,    10,    11,
      12,    13,    14,    15,    16,    17,    18,    19,    20,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
     153,   154,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,   158,   157,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,   155,     2,   156,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     1,     2,     2,     2,
       2,     2,     2,     2,     2,     2,     2
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  48,   2,   2,   2,   2,   2,   2,   2,   2,   2,
   2,  49,  50,  51,  52,  53,  54,  55,  56,  57,
  58,  59,   2,   2,   2,   2,   2,   2,   2,   2,
  60,  61,  62,  63,  64,   2,   2,   2,   2,   2,
  65,   2,   2,   2,   2,   2,   2,   2,   2,   2,
  66,  67,  68,   2,   2,   2,   2,   2,   2,   2,
  69,  70,   2,   2,   2,   2,   2,   2,   2,   2,
  71,  72,  73,   2,   2,   2,   2,   2,   2,   2,
  74,  75,   2,   2,   2,   2,   2,   2,   2,   2,
  76,  77,  78,   2,   2,   2,   2,   2,   2,   2,
  79,   2,  80,  81,  82,  83,  84,   2,   2,   2,
  85,  86,   2,   2,   2,   2,   2,   2,   2,   2,
   2,   2,   2,   2,   2,   2,   2,   2,   2,   2,
  87,   2,   2,   2,   2,   2,   2,   2,   2,   2,
  88,  89,  90,  91,  92,  93,   2,   2,   2,   2,
  94,  95,  96,   2,   2,   2,   2,   2,   2,   2,
  97,   2,   2,   2,   2,   2,   2,   2,   2,   2,
  98,   2,   2,   2,   2,   2,   2,   2,   2,   2,
  99,   2,   2,   2,   2,   2,   2,   2,   2,   2,
 100, 101, 102,   2,   2,   2,   2,   2,   2,   2,
 103, 104, 105,   2,   2,   2,   2,   2,   2,   2,
 106, 107,   2,   2,   2,   2,   2,   2,   2,   2,
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 108, 109,   2,   2,   2,   2,   2,   2,   2,   2,
   2,   2,   2,   2,   2,   2,   2,   2,   2,   2,
   2,   2,   2, 110,   2,   2,   2,   2,   2,   2,
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 111,   2,   2,   2,   2,   2,   2,   2,   2,   2,
 112, 113, 114, 115, 116, 117, 118,   2,   2,   2,
   2, 119,   2,   2,   2,   2,   2,   2,   2,   2,
 120, 121, 122,   2,   2,   2,   2,   2,   2,   2,
 123, 124,   2,   2,   2,   2,   2,   2,   2,   2,
   2,   2,   2,   2,   2,   2,   2,   2,   2,   2,
   2,   2,   2,   2,   2,   2,   2,   2,   2,   2,
 125, 126,   2,   2,   2,   2,   2,   2,   2,   2,
 127, 128, 129, 130, 131, 132, 133, 134, 135, 136,
   2,   2,   2,   2,   2,   2,   2,   2,   2,   2,
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   2,   2,   2,   2,   2,   2,   2,   2,   2,   2,
   2,   2,   2,   2,   2,   2,   2,   2,   2,   2,
   2,   2,   2,   2,   2,   2,   2,   2,   2,   2,
   2,   2,   2,   2,   2,   2,   2,   2,   2,   2,
 137, 138, 139, 140, 141, 142, 143, 144, 145, 146,
 147, 148,   2, 149, 150, 151, 152
};
```

```
#if YYDEBUG
 /* YYRLINE[YYN] -- Source line where rule number YYN was defined.  */
static const yytype_uint16 yyrline[] =
{
     0,   387,   387,   391,   392,   393,   397,   409,   408,   421,
   420,   426,   427,   429,   428,   435,   454,   455,   459,   463,
   467,   468,   472,   472,   473,   477,   478,   482,   497,   502,
   501,   514,   516,   514,   523,   524,   525,   529,   530,   534,
   553,   557,   557,   565,   566,   570,   575,   586,   596,   605,
   607,   605,   616,   617,   618,   622,   626,   645,   646,   650,
   651,   652,   653,   654,   655,   656,   657,   658,   659,   660,
   664,   676,   681,   682,   686,   687,   691,   695,   696,   700,
   701,   732,   733,   737,   738,   739,   743,   744,   754,   758,
   759,   763,   764,   810,   811,   812,   813,   814,   815,   816,
   817,   818,   818,   831,   832,   833,   834,   978,   979,   983,
   984
};
#endif

#if YYDEBUG || YYERROR_VERBOSE || 1
/* YYTNAME[SYMBOL-NUM] -- String name of the symbol SYMBOL-NUM.
  First, the terminals, then, starting at YYNTOKENS, nonterminals.  */
static const char *const yytname[] =
{
 "$end", "error", "$undefined", "LL_CONTEXT_ROOT",
 "LL_CONTEXT_DESTINATION", "LL_CONTEXT_SOURCE", "LL_CONTEXT_PARSER",
 "LL_CONTEXT_REWRITE", "LL_CONTEXT_FILTER", "LL_CONTEXT_LOG",
 "LL_CONTEXT_BLOCK_DEF", "LL_CONTEXT_BLOCK_REF",
 "LL_CONTEXT_BLOCK_CONTENT", "LL_CONTEXT_BLOCK_ARG", "LL_CONTEXT_PRAGMA",
 "LL_CONTEXT_FORMAT", "LL_CONTEXT_TEMPLATE_FUNC", "LL_CONTEXT_INNER_DEST",
 "LL_CONTEXT_INNER_SRC", "LL_CONTEXT_CLIENT_PROTO",
 "LL_CONTEXT_SERVER_PROTO", "KW_SOURCE", "KW_FILTER", "KW_PARSER",
 "KW_DESTINATION", "KW_LOG", "KW_OPTIONS", "KW_INCLUDE", "KW_BLOCK",
 "KW_JUNCTION", "KW_CHANNEL", "KW_INTERNAL", "KW_FILE", "KW_SQL",
 "KW_TYPE", "KW_COLUMNS", "KW_INDEXES", "KW_VALUES", "KW_PASSWORD",
 "KW_DATABASE", "KW_USERNAME", "KW_TABLE", "KW_ENCODING",
 "KW_SESSION_STATEMENTS", "KW_DELIMITERS", "KW_QUOTES", "KW_QUOTE_PAIRS",
 "KW_NULL", "KW_SYSLOG", "KW_MARK_FREQ", "KW_STATS_FREQ",
 "KW_STATS_LEVEL", "KW_STATS_LIFETIME", "KW_FLUSH_LINES", "KW_SUPPRESS",
 "KW_FLUSH_TIMEOUT", "KW_LOG_MSG_SIZE", "KW_FILE_TEMPLATE",
 "KW_PROTO_TEMPLATE", "KW_MARK_MODE", "KW_CHAIN_HOSTNAMES",
 "KW_NORMALIZE_HOSTNAMES", "KW_KEEP_HOSTNAME", "KW_CHECK_HOSTNAME",
 "KW_BAD_HOSTNAME", "KW_KEEP_TIMESTAMP", "KW_USE_DNS", "KW_USE_FQDN",
 "KW_CUSTOM_DOMAIN", "KW_DNS_CACHE", "KW_DNS_CACHE_SIZE",
 "KW_DNS_CACHE_EXPIRE", "KW_DNS_CACHE_EXPIRE_FAILED",
 "KW_DNS_CACHE_HOSTS", "KW_PERSIST_ONLY", "KW_USE_RCPTID",
 "KW_TZ_CONVERT", "KW_TS_FORMAT", "KW_FRAC_DIGITS", "KW_LOG_FIFO_SIZE",
 "KW_LOG_FETCH_LIMIT", "KW_LOG_IW_SIZE", "KW_LOG_PREFIX",
```

```
"KW_PROGRAM_OVERRIDE", "KW_HOST_OVERRIDE", "KW_THROTTLE", "KW_THREADED",
"KW_FLAGS", "KW_PAD_SIZE", "KW_TIME_ZONE", "KW_RECV_TIME_ZONE",
"KW_SEND_TIME_ZONE", "KW_LOCAL_TIME_ZONE", "KW_FORMAT", "KW_TIME_REOPEN",
"KW_TIME_REAP", "KW_TIME_SLEEP", "KW_TMPL_ESCAPE", "KW_OPTIONAL",
"KW_CREATE_DIRS", "KW_OWNER", "KW_GROUP", "KW_PERM", "KW_DIR_OWNER",
"KW_DIR_GROUP", "KW_DIR_PERM", "KW_TEMPLATE", "KW_TEMPLATE_ESCAPE",
"KW_DEFAULT_FACILITY", "KW_DEFAULT_LEVEL", "KW_PORT",
"KW_USE_TIME_RECVD", "KW_FACILITY", "KW_LEVEL", "KW_HOST", "KW_MATCH",
"KW_MESSAGE", "KW_NETMASK", "KW_TAGS", "KW_VALUE", "KW_REWRITE",
"KW_SET", "KW_SUBST", "KW_YES", "KW_NO", "KW_IFDEF", "KW_ENDIF",
"LL_DOTDOT", "LL_IDENTIFIER", "LL_NUMBER", "LL_FLOAT", "LL_STRING",
"LL_TOKEN", "LL_BLOCK", "LL_PRAGMA", "LL_EOL", "LL_ERROR",
"KW_VALUE_PAIRS", "KW_SELECT", "KW_EXCLUDE", "KW_PAIR", "KW_KEY",
"KW_SCOPE", "KW_SHIFT", "KW_REKEY", "KW_ADD_PREFIX", "KW_REPLACE_PREFIX",
"KW_ON_ERROR", "KW_RETRIES", "KW_CONDITION", "KW_SET_TAG",
"KW_CLEAR_TAG", "KW_GROUP_SET", "'('", "')'", "'{'", "'}'", "';'", "':'",
"$accept", "start", "rewrite_expr_list", "rewrite_template_content",
"rewrite_expr", "$@1", "$@2", "$@3", "rewrite_groupset_opts",
"rewrite_groupset_opt", "rewrite_subst_opts", "rewrite_subst_opt", "$@4",
"rewrite_expr_opts", "rewrite_expr_opt", "rewrite_condition_opt", "$@5",
"source_content", "$@6", "$@7", "source_items", "source_item",
"source_plugin", "source_afinter", "source_afinter_params", "$@8",
"source_afinter_options", "source_afinter_option", "filter_content",
"parser_content", "rewrite_content", "dest_content", "$@9", "$@10",
"dest_items", "dest_item", "dest_plugin", "log_items", "log_item",
"log_junction", "log_last_junction", "log_forks", "log_fork",
"log_content", "log_flags", "log_flags_items", "string", "yesno",
"dnsmode", "string_list", "string_list_build", "semicolons",
"source_option", "$@12", "host_resolve_option", "matcher_option",
"matcher_flags", YY_NULLPTR
};
#endif

# ifdef YYPRINT
/* YYTOKNUM[NUM] -- (External) token number corresponding to the
   (internal) symbol number NUM (which must be that of a token).  */
static const yytype_uint16 yytoknum[] =
{
     0,   256, 10512,     1,     2,     3,     4,     5,     6,     7,
     8,     9,    10,    11,    12,    13,    14,    15,    16,    17,
    18, 10000, 10001, 10002, 10003, 10004, 10005, 10006, 10007, 10008,
 10009, 10010, 10011, 10030, 10031, 10032, 10033, 10034, 10035, 10036,
 10037, 10038, 10039, 10040, 10050, 10051, 10052, 10053, 10060, 10071,
 10072, 10073, 10074, 10075, 10076, 10077, 10078, 10079, 10080, 10081,
 10090, 10091, 10092, 10093, 10094, 10100, 10110, 10111, 10112, 10120,
 10121, 10130, 10131, 10132, 10140, 10141, 10150, 10151, 10152, 10160,
 10162, 10163, 10164, 10165, 10166, 10170, 10171, 10190, 10200, 10201,
 10202, 10203, 10204, 10205, 10210, 10211, 10212, 10220, 10230, 10240,
```

```
  10250, 10251, 10252, 10260, 10261, 10262, 10270, 10271, 10300, 10301,
  10323, 10340, 10350, 10351, 10352, 10353, 10354, 10355, 10356, 10361,
  10370, 10371, 10372, 10380, 10381, 10410, 10411, 10420, 10421, 10422,
  10423, 10424, 10425, 10426, 10427, 10428, 10429, 10500, 10501, 10502,
  10503, 10504, 10505, 10506, 10507, 10508, 10509, 10510, 10511, 10513,
  10514, 10515, 10516,    40,    41,   123,   125,    59,    58
};
# endif

#define YYPACT_NINF -106

#define yypact_value_is_default(Yystate) \
 (!!((Yystate) == (-106)))

#define YYTABLE_NINF -45

#define yytable_value_is_error(Yytable_value) \
 0

 /* YYPACT[STATE-NUM] -- Index in YYTABLE of the portion describing
    STATE-NUM.  */
static const yytype_int8 yypact[] =
{
    -15,   -87,   -73,   -65,  -106,   -59,   -58,   -57,    97,    17,
    -54,   -54,    17,   -75,   -75,   -75,   -75,   -75,  -106,   -55,
    -51,  -106,  -106,   -54,   -54,   -15,   -15,   -47,  -106,  -106,
   -106,  -106,   -75,   -49,   -44,  -106,    -6,    -6,    17,  -106,
   -106,  -106,  -106,   -97,  -106,  -106,  -106,   -34,  -104,   -89,
    -70,   -69,   -66,    17,   -54,  -106,   -35,   -32,  -106,   -52,
    -41,   -29,   -97,  -106,   -82,   -31,   -25,   -34,  -106,   -75,
   -106,   -75,  -106,   -75,  -106,   -75,  -106,   -75,  -106,    12,
     -6,  -106,  -106,   -75,  -106,  -106,  -106,   -21,   -82,   -22,
   -106,   -75,  -106,  -106,   -16,   -30,   -20,   -11,   -10,    -9,
     -8,    -5,    -3,   -17,    -2,    -1,   -12,  -106,  -106,     0,
      2,  -106,  -106,     4,     5,  -106,   -75,     6,  -106,  -106,
   -106,     8,  -106,  -106,   -54,  -106,  -106,   -54,  -106,  -106,
   -106,  -106,  -106,  -106,  -106,  -106,  -106,   -54,  -106,   -54,  -106,
   -106,   -75,  -106,  -106,   -75,   -75,  -106,  -106,  -106,  -106,
    -20,   -20,  -106,   -17,   -17,     9,   -75,    10,   -75,    11,
     13,   -56,  -106,  -106,  -106,  -106,   -54,  -106,  -106,  -106,
   -106,  -106,    15,    18,    19,    21,    26,    27,    28,    29,
   -106,   -56,  -106,   -26,  -106,   -85,   -85,   -85,    22,   -75,
    -75,   -75,   -75,  -106,    30,    31,    32,    33,  -106,  -106,
   -106,  -106,    34,    35,    36,    37,    38,    39,    40,    41,
    -85,   -53,   -85,   -85,  -106,  -106,  -106,  -106,  -106,  -106,
   -106,  -106,    42,  -106,  -106,    43,    44,    45,  -106,  -106,
   -106,  -106
};
```

```
/* YYDEFACT[STATE-NUM] -- Default reduction number in state STATE-NUM.
   Performed when YYTABLE does not specify something else to do.  Zero
   means the default is an error.  */
static const yytype_uint8 yydefact[] =
{
     5,     0,     0,     0,    15,     0,     0,     0,     0,    73,
     0,     0,    73,     0,     0,     0,     0,     0,     1,     0,
     0,     2,    71,     0,    91,     5,     5,     0,    81,    82,
     9,     6,     0,     0,     0,    13,    58,    58,    73,    92,
     3,     4,    70,    26,     7,    11,    12,    17,     0,     0,
     0,     0,     0,    73,     0,    69,     0,     0,    72,     0,
     0,     0,    26,    28,    22,     0,     0,    17,    19,     0,
    31,     0,    46,     0,    47,     0,    49,     0,    48,    78,
    58,    74,    75,     0,    29,    10,    25,     0,    22,     0,
    24,    90,    14,    16,     0,     0,    36,     0,     0,     0,
     0,     0,     0,    54,     0,     0,     0,    76,    57,     0,
     0,     8,    20,     0,     0,    23,    90,     0,    88,    59,
    60,     0,    39,    32,     0,    38,    37,     0,    61,    62,
    63,    64,    67,    68,    56,    50,     0,    55,     0,    65,
    66,    80,    27,    30,     0,   110,    89,    18,    41,    33,
    36,    36,    51,    54,    54,     0,    80,     0,   110,     0,
     0,   101,    34,    35,    52,    53,     0,    79,   107,   109,
   108,    40,     0,     0,     0,     0,     0,     0,     0,     0,
    42,   101,    45,     0,    77,     0,     0,     0,     0,     0,
     0,     0,    90,    43,     0,     0,     0,     0,   102,    83,
    84,    85,     0,     0,     0,     0,     0,     0,     0,     0,
     0,     0,     0,     0,    94,    95,    99,    93,    98,    96,
    97,   100,     0,    87,    86,     0,     0,     0,   106,   104,
   103,   105
};

/* YYPGOTO[NTERM-NUM].  */
static const yytype_int8 yypgoto[] =
{
  -106,  -106,    49,    16,  -106,  -106,  -106,  -106,    61,  -106,
    51,  -106,  -106,    78,   -28,   -13,  -106,  -106,  -106,  -106,
  -105,  -106,  -106,  -106,  -106,  -106,    23,  -106,  -106,  -106,
  -106,  -106,  -106,  -106,   -63,  -106,  -106,    67,  -106,    -7,
   106,    20,   -72,   113,  -106,    14,   -14,   -94,  -106,   -23,
    50,    -4,  -106,  -106,  -106,  -106,    47
};

/* YYDEFGOTO[NTERM-NUM].  */
static const yytype_int16 yydefgoto[] =
{
    -1,     8,     9,    30,    10,    64,    43,    47,    66,    67,
    87,    88,    89,    61,    62,    63,   110,    95,    96,   149,
```

```
  123,  124,  125,  126,  160,  161,  180,  181,   98,  100,
  105,  102,  103,  152,  135,  136,  137,   53,   54,   11,
   21,   22,   23,   56,  107,  155,   31,  202,  225,  117,
  118,   25,  182,  183,  198,  115,  159
};

 /* YYTABLE[YYPACT[STATE-NUM]] -- What to do in state STATE-NUM.  If
    positive, shift that token.  If negative, reduce the rule whose
    number is the opposite.  If YYTABLE_NINF, syntax error.  */
static const yytype_int16 yytable[] =
{
   32,   33,   34,   65,  172,   19,  173,   26,   19,  174,
   20,  121,  113,   20,    1,   48,   49,   50,   51,   38,
   39,  223,   59,    1,  127,  175,  176,  177,  178,   55,
   55,  138,   27,   35,   68,  194,   90,   59,  199,  200,
  195,  196,   19,  197,  201,  162,  163,   20,   44,   69,
   80,   70,   60,   28,   68,   94,   29,   97,   58,   99,
   90,  101,  179,  104,   71,  114,   72,   60,   12,  109,
  199,  200,  -21,   55,   40,   41,  201,  116,  127,  127,
   13,  138,  138,   73,   75,   74,   76,   77,   14,   78,
  164,  165,  203,  204,   15,   16,   17,   18,  -44,  106,
   36,   83,  116,   24,   37,   45,    2,    3,  122,   42,
   46,  134,   84,    4,   52,   60,  222,  224,  226,  227,
  150,   81,   91,  151,   82,   85,  120,  156,   93,   92,
  157,  158,  153,  111,  154,    5,    6,    7,  119,  112,
   86,  141,  156,  128,  158,  130,  129,  108,  131,  132,
   57,  205,  139,  133,  142,  140,  143,  144,  145,   79,
  147,  148,  184,  166,  168,  170,  146,  171,  185,  209,
  167,  186,  187,    0,  188,  206,  207,  208,  116,  189,
  190,  191,  192,  210,  211,  212,  213,    0,  214,  215,
  216,  217,  218,  219,  220,  221,  228,  229,  230,  231,
    0,    0,    0,    0,  193,  169
};

static const yytype_int16 yycheck[] =
{
   14,   15,   16,   37,   60,   25,   62,   11,   25,   65,
   30,   31,   34,   30,   29,   21,   22,   23,   24,   23,
   24,   74,  119,   29,   96,   81,   82,   83,   84,   36,
   37,  103,   12,   17,   47,   61,   64,  119,  123,  124,
   66,   67,   25,   69,  129,  150,  151,   30,   32,  153,
   54,  155,  149,  128,   67,   69,  131,   71,   38,   73,
   88,   75,  118,   77,  153,   87,  155,  149,  155,   83,
  123,  124,  154,   80,   25,   26,  129,   91,  150,  151,
  153,  153,  154,  153,  153,  155,  155,  153,  153,  155,
  153,  154,  186,  187,  153,  153,  153,    0,  154,   87,
  155,  153,  116,  157,  155,  154,  121,  122,  128,  156,
  154,  128,  153,  128,  120,  149,  210,  211,  212,  213,
```

```
  124,  156,  153,  127,  156,  154,  156,  141,   67,  154,
  144,  145,  136,  154,  138,  150,  151,  152,  154,   88,
   62,  153,  156,  154,  158,  154,  156,   80,  156,  154,
   37,  129,  154,  156,  154,  156,  154,  153,  153,   53,
  154,  153,  166,  154,  154,  154,  116,  154,  153,  192,
  156,  153,  153,   -1,  153,  189,  190,  191,  192,  153,
  153,  153,  153,  153,  153,  153,  153,   -1,  154,  154,
  154,  154,  154,  154,  154,  154,  154,  154,  154,  154,
   -1,   -1,   -1,   -1,  181,  158
};

 /* YYSTOS[STATE-NUM] -- The (internal number of the) accessing
    symbol of state STATE-NUM.  */
static const yytype_uint8 yystos[] =
{
    0,   29,  121,  122,  128,  150,  151,  152,  160,  161,
  163,  198,  155,  153,  153,  153,  153,  153,    0,   25,
   30,  199,  200,  201,  157,  210,  210,  200,  128,  131,
  162,  205,  205,  205,  205,  162,  155,  155,  210,  210,
  161,  161,  156,  165,  162,  154,  154,  166,   21,   22,
   23,   24,  120,  196,  197,  198,  202,  202,  200,  119,
  149,  172,  173,  174,  164,   37,  167,  168,  174,  153,
  155,  153,  155,  153,  155,  153,  155,  153,  155,  199,
  210,  156,  156,  153,  153,  154,  172,  169,  170,  171,
  173,  153,  154,  167,  205,  176,  177,  205,  187,  205,
  188,  205,  190,  191,  205,  189,   87,  203,  196,  205,
  175,  154,  169,   34,   87,  214,  205,  208,  209,  154,
  156,   31,  128,  179,  180,  181,  182,  201,  154,  156,
  154,  156,  154,  156,  128,  193,  194,  195,  201,  154,
  156,  153,  154,  154,  153,  153,  209,  154,  153,  178,
  210,  210,  192,  210,  210,  204,  205,  205,  205,  215,
  183,  184,  179,  179,  193,  193,  154,  204,  154,  215,
  154,  154,   60,   62,   65,   81,   82,   83,   84,  118,
  185,  186,  211,  212,  210,  153,  153,  153,  153,  153,
  153,  153,  153,  185,   61,   66,   67,   69,  213,  123,
  124,  129,  206,  206,  206,  129,  205,  205,  205,  208,
  153,  153,  153,  153,  154,  154,  154,  154,  154,  154,
  154,  154,  206,   74,  206,  207,  206,  206,  154,  154,
  154,  154
};

 /* YYR1[YYN] -- Symbol number of symbol that rule YYN derives.  */
static const yytype_uint8 yyr1[] =
{
    0,  159,  160,  161,  161,  161,  162,  164,  163,  165,
  163,  163,  163,  166,  163,  163,  167,  167,  168,  168,
  169,  169,  171,  170,  170,  172,  172,  173,  173,  175,
  174,  177,  178,  176,  179,  179,  179,  180,  180,  181,
```

```
  182,  184,  183,  185,  185,  186,  187,  188,  189,  191,
  192,  190,  193,  193,  193,  194,  195,  196,  196,  197,
  197,  197,  197,  197,  197,  197,  197,  197,  197,  197,
  198,  199,  200,  200,  201,  201,  202,  203,  203,  204,
  204,  205,  205,  206,  206,  206,  207,  207,  208,  209,
  209,  210,  210,  211,  211,  211,  211,  211,  211,  211,
  211,  212,  211,  213,  213,  213,  213,  214,  214,  215,
  215
};

 /* YYR2[YYN] -- Number of symbols on the right hand side of rule YYN.  */
static const yytype_uint8 yyr2[] =
{
    0,    2,    2,    3,    3,    0,    1,    0,    7,    0,
    6,    4,    4,    0,    6,    1,    2,    0,    4,    1,
    2,    0,    0,    2,    1,    2,    0,    4,    1,    0,
    4,    0,    0,    3,    3,    3,    0,    1,    1,    1,
    4,    0,    2,    2,    0,    1,    0,    0,    0,    0,
    0,    3,    3,    3,    0,    1,    1,    3,    0,    4,
    4,    4,    4,    4,    4,    4,    4,    4,    4,    1,
    4,    1,    3,    0,    4,    4,    3,    5,    0,    2,
    0,    1,    1,    1,    1,    1,    1,    1,    1,    2,
    0,    1,    2,    4,    4,    4,    4,    4,    4,    4,
    4,    0,    2,    4,    4,    4,    4,    4,    4,    2,
    0
};


#define yyerrok         (yyerrstatus = 0)
#define yyclearin       (yychar = YYEMPTY)
#define YYEMPTY         (-2)
#define YYEOF           0

#define YYACCEPT        goto yyacceptlab
#define YYABORT         goto yyabortlab
#define YYERROR         goto yyerrorlab


#define YYRECOVERING()  (!!yyerrstatus)

#define YYBACKUP(Token, Value)                                  \
do                                                              \
 if (yychar == YYEMPTY)                                         \
  {                                                             \
    yychar = (Token);                                           \
    yylval = (Value);                                           \
    YYPOPSTACK (yylen);                                         \
    yystate = *yyssp;                                           \
```

```
    goto yybackup;                                      \
  }                                                     \
 else                                                    \
  {                                                     \
    yyerror (&yylloc, lexer, result, arg, YY_("syntax error: cannot back up")); \
    YYERROR;                                            \
  }                                                     \
while (0)

/* Error token number */
#define YYTERROR        1
#define YYERRCODE       256


/* YYLLOC_DEFAULT -- Set CURRENT to span from RHS[1] to RHS[N].
  If N is 0, then set CURRENT to the empty location which ends
  the previous symbol: RHS[0] (always defined).  */

#ifndef YYLLOC_DEFAULT
# define YYLLOC_DEFAULT(Current, Rhs, N)                        \
  do                                                    \
    if (N)                                               \
      {                                                 \
        (Current).first_line   = YYRHSLOC (Rhs, 1).first_line;       \
        (Current).first_column = YYRHSLOC (Rhs, 1).first_column;     \
        (Current).last_line    = YYRHSLOC (Rhs, N).last_line;        \
        (Current).last_column  = YYRHSLOC (Rhs, N).last_column;      \
      }                                                 \
    else                                                 \
      {                                                 \
        (Current).first_line   = (Current).last_line   =            \
          YYRHSLOC (Rhs, 0).last_line;                          \
        (Current).first_column = (Current).last_column =            \
          YYRHSLOC (Rhs, 0).last_column;                        \
      }                                                 \
  while (0)
#endif

#define YYRHSLOC(Rhs, K) ((Rhs)[K])


/* Enable debugging if requested.  */
#if YYDEBUG

# ifndef YYFPRINTF
#  include <stdio.h> /* INFRINGES ON USER NAME SPACE */
#  define YYFPRINTF fprintf
# endif
```

```
# define YYDPRINTF(Args)                        \
do {                                    \
 if (yydebug)                             \
   YYFPRINTF Args;                        \
} while (0)


/* YY_LOCATION_PRINT -- Print the location on the stream.
  This macro was not mandated originally: define only if we know
  we won't break user code: when these are the locations we know.  */

#ifndef YY_LOCATION_PRINT
# if defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL

/* Print *YYLOCP on YYO.  Private, do not rely on its existence. */

YY_ATTRIBUTE_UNUSED
static unsigned
yy_location_print_ (FILE *yyo, YYLTYPE const * const yylocp)
{
 unsigned res = 0;
 int end_col = 0 != yylocp->last_column ? yylocp->last_column - 1 : 0;
 if (0 <= yylocp->first_line)
   {
     res += YYFPRINTF (yyo, "%d", yylocp->first_line);
     if (0 <= yylocp->first_column)
       res += YYFPRINTF (yyo, ".%d", yylocp->first_column);
   }
 if (0 <= yylocp->last_line)
   {
     if (yylocp->first_line < yylocp->last_line)
       {
         res += YYFPRINTF (yyo, "-%d", yylocp->last_line);
         if (0 <= end_col)
           res += YYFPRINTF (yyo, ".%d", end_col);
       }
     else if (0 <= end_col && yylocp->first_column < end_col)
       res += YYFPRINTF (yyo, "-%d", end_col);
   }
 return res;
}

#  define YY_LOCATION_PRINT(File, Loc)          \
 yy_location_print_ (File, &(Loc))

# else
#  define YY_LOCATION_PRINT(File, Loc) ((void) 0)
```

```
# endif
#endif


# define YY_SYMBOL_PRINT(Title, Type, Value, Location)                    \
do {                                                                      \
 if (yydebug)                                                             \
   {                                                                      \
     YYFPRINTF (stderr, "%s ", Title);                                    \
     yy_symbol_print (stderr,                                             \
                Type, Value, Location, lexer, result, arg); \
     YYFPRINTF (stderr, "\n");                                            \
   }                                                                      \
} while (0)


/*-----------------------------------------.
| Print this symbol's value on YYOUTPUT.  |
'-----------------------------------------*/

static void
yy_symbol_value_print (FILE *yyoutput, int yytype, YYSTYPE const * const yyvaluep, YYLTYPE const * const
yylocationp, CfgLexer *lexer, LogExprNode **result, gpointer arg)
{
 FILE *yyo = yyoutput;
 YYUSE (yyo);
 YYUSE (yylocationp);
 YYUSE (lexer);
 YYUSE (result);
 YYUSE (arg);
 if (!yyvaluep)
   return;
# ifdef YYPRINT
 if (yytype < YYNTOKENS)
   YYPRINT (yyoutput, yytoknum[yytype], *yyvaluep);
# endif
 YYUSE (yytype);
}


/*---------------------------------.
| Print this symbol on YYOUTPUT.  |
'---------------------------------*/

static void
yy_symbol_print (FILE *yyoutput, int yytype, YYSTYPE const * const yyvaluep, YYLTYPE const * const
yylocationp, CfgLexer *lexer, LogExprNode **result, gpointer arg)
{
```

```
 YYFPRINTF (yyoutput, "%s %s (",
            yytype < YYNTOKENS ? "token" : "nterm", yytname[yytype]);

 YY_LOCATION_PRINT (yyoutput, *yylocationp);
 YYFPRINTF (yyoutput, ": ");
 yy_symbol_value_print (yyoutput, yytype, yyvaluep, yylocationp, lexer, result, arg);
 YYFPRINTF (yyoutput, ")");
}

/*------------------------------------------------------------------.
| yy_stack_print -- Print the state stack from its BOTTOM up to its |
| TOP (included).                                                   |
'------------------------------------------------------------------*/

static void
yy_stack_print (yytype_int16 *yybottom, yytype_int16 *yytop)
{
 YYFPRINTF (stderr, "Stack now");
 for (; yybottom <= yytop; yybottom++)
   {
     int yybot = *yybottom;
     YYFPRINTF (stderr, " %d", yybot);
   }
 YYFPRINTF (stderr, "\n");
}

# define YY_STACK_PRINT(Bottom, Top)                            \
do {                                                            \
 if (yydebug)                                                   \
   yy_stack_print ((Bottom), (Top));                            \
} while (0)


/*------------------------------------------------.
| Report that the YYRULE is going to be reduced.  |
'------------------------------------------------*/

static void
yy_reduce_print (yytype_int16 *yyssp, YYSTYPE *yyvsp, YYLTYPE *yylsp, int yyrule, CfgLexer *lexer,
LogExprNode **result, gpointer arg)
{
 unsigned long int yylno = yyrline[yyrule];
 int yynrhs = yyr2[yyrule];
 int yyi;
 YYFPRINTF (stderr, "Reducing stack by rule %d (line %lu):\n",
            yyrule - 1, yylno);
 /* The symbols being reduced.  */
 for (yyi = 0; yyi < yynrhs; yyi++)
```

```
  {
    YYFPRINTF (stderr, "   $%d = ", yyi + 1);
    yy_symbol_print (stderr,
                     yystos[yyssp[yyi + 1 - yynrhs]],
                     &(yyvsp[(yyi + 1) - (yynrhs)])
                     , &(yylsp[(yyi + 1) - (yynrhs)])                       , lexer, result, arg);
    YYFPRINTF (stderr, "\n");
  }
}

# define YY_REDUCE_PRINT(Rule)          \
do {                                    \
 if (yydebug)                           \
   yy_reduce_print (yyssp, yyvsp, yylsp, Rule, lexer, result, arg); \
} while (0)

/* Nonzero means print parse trace.  It is left uninitialized so that
  multiple parsers can coexist.  */
int yydebug;
#else /* !YYDEBUG */
# define YYDPRINTF(Args)
# define YY_SYMBOL_PRINT(Title, Type, Value, Location)
# define YY_STACK_PRINT(Bottom, Top)
# define YY_REDUCE_PRINT(Rule)
#endif /* !YYDEBUG */


/* YYINITDEPTH -- initial size of the parser's stacks.  */
#ifndef YYINITDEPTH
# define YYINITDEPTH 200
#endif

/* YYMAXDEPTH -- maximum size the stacks can grow to (effective only
  if the built-in stack extension method is used).

  Do not make this value too large; the results are undefined if
  YYSTACK_ALLOC_MAXIMUM < YYSTACK_BYTES (YYMAXDEPTH)
  evaluated with infinite-precision integer arithmetic.  */

#ifndef YYMAXDEPTH
# define YYMAXDEPTH 10000
#endif


#if YYERROR_VERBOSE

# ifndef yystrlen
#  if defined __GLIBC__ && defined _STRING_H
```

```
#   define yystrlen strlen
#  else
/* Return the length of YYSTR.  */
static YYSIZE_T
yystrlen (const char *yystr)
{
 YYSIZE_T yylen;
 for (yylen = 0; yystr[yylen]; yylen++)
   continue;
 return yylen;
}
#  endif
# endif

# ifndef yystpcpy
#  if defined __GLIBC__ && defined _STRING_H && defined _GNU_SOURCE
#   define yystpcpy stpcpy
#  else
/* Copy YYSRC to YYDEST, returning the address of the terminating '\0' in
   YYDEST.  */
static char *
yystpcpy (char *yydest, const char *yysrc)
{
 char *yyd = yydest;
 const char *yys = yysrc;

 while ((*yyd++ = *yys++) != '\0')
   continue;

 return yyd - 1;
}
#  endif
# endif

# ifndef yytnamerr
/* Copy to YYRES the contents of YYSTR after stripping away unnecessary
   quotes and backslashes, so that it's suitable for yyerror.  The
   heuristic is that double-quoting is unnecessary unless the string
   contains an apostrophe, a comma, or backslash (other than
   backslash-backslash).  YYSTR is taken from yytname.  If YYRES is
   null, do not copy; instead, return the length of what the result
   would have been.  */
static YYSIZE_T
yytnamerr (char *yyres, const char *yystr)
{
 if (*yystr == "")
   {
     YYSIZE_T yyn = 0;
```

```
    char const *yyp = yystr;

    for (;;)
      switch (*++yyp)
        {
        case '\'':
        case ',':
          goto do_not_strip_quotes;

        case '\\':
          if (*++yyp != '\\')
            goto do_not_strip_quotes;
          /* Fall through.  */
        default:
          if (yyres)
            yyres[yyn] = *yyp;
          yyn++;
          break;

        case '"':
          if (yyres)
            yyres[yyn] = '\0';
          return yyn;
        }
  do_not_strip_quotes: ;
    }

  if (! yyres)
    return yystrlen (yystr);

  return yystpcpy (yyres, yystr) - yyres;
}
# endif

/* Copy into *YYMSG, which is of size *YYMSG_ALLOC, an error message
   about the unexpected token YYTOKEN for the state stack whose top is
   YYSSP.

   Return 0 if *YYMSG was successfully written.  Return 1 if *YYMSG is
   not large enough to hold the message.  In that case, also set
   *YYMSG_ALLOC to the required number of bytes.  Return 2 if the
   required number of bytes is too large to store.  */
static int
yysyntax_error (YYSIZE_T *yymsg_alloc, char **yymsg,
                yytype_int16 *yyssp, int yytoken)
{
  YYSIZE_T yysize0 = yytnamerr (YY_NULLPTR, yytname[yytoken]);
  YYSIZE_T yysize = yysize0;
```

```
enum { YYERROR_VERBOSE_ARGS_MAXIMUM = 5 };
/* Internationalized format string. */
const char *yyformat = YY_NULLPTR;
/* Arguments of yyformat. */
char const *yyarg[YYERROR_VERBOSE_ARGS_MAXIMUM];
/* Number of reported tokens (one for the "unexpected", one per
   "expected"). */
int yycount = 0;

/* There are many possibilities here to consider:
   - If this state is a consistent state with a default action, then
     the only way this function was invoked is if the default action
     is an error action.  In that case, don't check for expected
     tokens because there are none.
   - The only way there can be no lookahead present (in yychar) is if
     this state is a consistent state with a default action.  Thus,
     detecting the absence of a lookahead is sufficient to determine
     that there is no unexpected or expected token to report.  In that
     case, just report a simple "syntax error".
   - Don't assume there isn't a lookahead just because this state is a
     consistent state with a default action.  There might have been a
     previous inconsistent state, consistent state with a non-default
     action, or user semantic action that manipulated yychar.
   - Of course, the expected token list depends on states to have
     correct lookahead information, and it depends on the parser not
     to perform extra reductions after fetching a lookahead from the
     scanner and before detecting a syntax error.  Thus, state merging
     (from LALR or IELR) and default reductions corrupt the expected
     token list.  However, the list is correct for canonical LR with
     one exception: it will still contain any token that will not be
     accepted due to an error action in a later state.
*/
if (yytoken != YYEMPTY)
  {
    int yyn = yypact[*yyssp];
    yyarg[yycount++] = yytname[yytoken];
    if (!yypact_value_is_default (yyn))
      {
        /* Start YYX at -YYN if negative to avoid negative indexes in
           YYCHECK.  In other words, skip the first -YYN actions for
           this state because they are default actions.  */
        int yyxbegin = yyn < 0 ? -yyn : 0;
        /* Stay within bounds of both yycheck and yytname.  */
        int yychecklim = YYLAST - yyn + 1;
        int yyxend = yychecklim < YYNTOKENS ? yychecklim : YYNTOKENS;
        int yyx;

        for (yyx = yyxbegin; yyx < yyxend; ++yyx)
```

```
          if (yycheck[yyx + yyn] == yyx && yyx != YYTERROR
              && !yytable_value_is_error (yytable[yyx + yyn]))
            {
              if (yycount == YYERROR_VERBOSE_ARGS_MAXIMUM)
                {
                  yycount = 1;
                  yysize = yysize0;
                  break;
                }
              yyarg[yycount++] = yytname[yyx];
              {
                YYSIZE_T yysize1 = yysize + yytnamerr (YY_NULLPTR, yytname[yyx]);
                if (! (yysize <= yysize1
                       && yysize1 <= YYSTACK_ALLOC_MAXIMUM))
                  return 2;
                yysize = yysize1;
              }
            }
        }
    }

  switch (yycount)
    {
# define YYCASE_(N, S)                      \
      case N:                               \
        yyformat = S;                       \
      break
      YYCASE_(0, YY_("syntax error"));
      YYCASE_(1, YY_("syntax error, unexpected %s"));
      YYCASE_(2, YY_("syntax error, unexpected %s, expecting %s"));
      YYCASE_(3, YY_("syntax error, unexpected %s, expecting %s or %s"));
      YYCASE_(4, YY_("syntax error, unexpected %s, expecting %s or %s or %s"));
      YYCASE_(5, YY_("syntax error, unexpected %s, expecting %s or %s or %s or %s"));
# undef YYCASE_
    }

  {
    YYSIZE_T yysize1 = yysize + yystrlen (yyformat);
    if (! (yysize <= yysize1 && yysize1 <= YYSTACK_ALLOC_MAXIMUM))
      return 2;
    yysize = yysize1;
  }

  if (*yymsg_alloc < yysize)
    {
      *yymsg_alloc = 2 * yysize;
      if (! (yysize <= *yymsg_alloc
             && *yymsg_alloc <= YYSTACK_ALLOC_MAXIMUM))
```

```
      *yymsg_alloc = YYSTACK_ALLOC_MAXIMUM;
    return 1;
  }

 /* Avoid sprintf, as that infringes on the user's name space.
    Don't have undefined behavior even if the translation
    produced a string with the wrong number of "%s"s.  */
 {
  char *yyp = *yymsg;
  int yyi = 0;
  while ((*yyp = *yyformat) != '\0')
    if (*yyp == '%' && yyformat[1] == 's' && yyi < yycount)
      {
        yyp += yytnamerr (yyp, yyarg[yyi++]);
        yyformat += 2;
      }
    else
      {
        yyp++;
        yyformat++;
      }
 }
 return 0;
}
#endif /* YYERROR_VERBOSE */

/*-----------------------------------------------.
| Release the memory associated to this symbol.  |
'-----------------------------------------------*/

static void
yydestruct (const char *yymsg, int yytype, YYSTYPE *yyvaluep, YYLTYPE *yylocationp, CfgLexer *lexer,
LogExprNode **result, gpointer arg)
{
 YYUSE (yyvaluep);
 YYUSE (yylocationp);
 YYUSE (lexer);
 YYUSE (result);
 YYUSE (arg);
 if (!yymsg)
  yymsg = "Deleting";
 YY_SYMBOL_PRINT (yymsg, yytype, yyvaluep, yylocationp);

 YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
 YYUSE (yytype);
 YY_IGNORE_MAYBE_UNINITIALIZED_END
}
```

```
/*----------.
| yyparse.  |
'----------*/

int
yyparse (CfgLexer *lexer, LogExprNode **result, gpointer arg)
{
/* The lookahead symbol.  */
int yychar;


/* The semantic value of the lookahead symbol.  */
/* Default value used for initialization, for pacifying older GCCs
  or non-GCC compilers.  */
YY_INITIAL_VALUE (static YYSTYPE yyval_default;)
YYSTYPE yylval YY_INITIAL_VALUE (= yyval_default);

/* Location data for the lookahead symbol.  */
static YYLTYPE yyloc_default
# if defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL
 = { 1, 1, 1, 1 }
# endif
;
YYLTYPE yylloc = yyloc_default;

  /* Number of syntax errors so far.  */
  int yynerrs;

  int yystate;
  /* Number of tokens to shift before error messages enabled.  */
  int yyerrstatus;

  /* The stacks and their tools:
     'yyss': related to states.
     'yyvs': related to semantic values.
     'yyls': related to locations.

     Refer to the stacks through separate pointers, to allow yyoverflow
     to reallocate them elsewhere.  */

  /* The state stack.  */
  yytype_int16 yyssa[YYINITDEPTH];
  yytype_int16 *yyss;
  yytype_int16 *yyssp;
```

```
  /* The semantic value stack.  */
  YYSTYPE yyvsa[YYINITDEPTH];
  YYSTYPE *yyvs;
  YYSTYPE *yyvsp;

  /* The location stack.  */
  YYLTYPE yylsa[YYINITDEPTH];
  YYLTYPE *yyls;
  YYLTYPE *yylsp;

  /* The locations where the error started and ended.  */
  YYLTYPE yyerror_range[3];

  YYSIZE_T yystacksize;

 int yyn;
 int yyresult;
 /* Lookahead token as an internal (translated) token number.  */
 int yytoken = 0;
 /* The variables used to return semantic value and location from the
    action routines.  */
 YYSTYPE yyval;
 YYLTYPE yyloc;

#if YYERROR_VERBOSE
 /* Buffer for error messages, and its allocated size.  */
 char yymsgbuf[128];
 char *yymsg = yymsgbuf;
 YYSIZE_T yymsg_alloc = sizeof yymsgbuf;
#endif

#define YYPOPSTACK(N)   (yyvsp -= (N), yyssp -= (N), yylsp -= (N))

 /* The number of symbols on the RHS of the reduced rule.
    Keep to zero when no symbol should be popped.  */
 int yylen = 0;

 yyssp = yyss = yyssa;
 yyvsp = yyvs = yyvsa;
 yylsp = yyls = yylsa;
 yystacksize = YYINITDEPTH;

 YYDPRINTF ((stderr, "Starting parse\n"));

 yystate = 0;
 yyerrstatus = 0;
 yynerrs = 0;
 yychar = YYEMPTY; /* Cause a token to be read.  */
```

```
 yylsp[0] = yylloc;
 goto yysetstate;

/*------------------------------------------------------------.
| yynewstate -- Push a new state, which is found in yystate.  |
'------------------------------------------------------------*/
yynewstate:
 /* In all cases, when you get here, the value and location stacks
    have just been pushed.  So pushing a state here evens the stacks.  */
 yyssp++;

yysetstate:
 *yyssp = yystate;

 if (yyss + yystacksize - 1 <= yyssp)
   {
     /* Get the current used size of the three stacks, in elements.  */
     YYSIZE_T yysize = yyssp - yyss + 1;

#ifdef yyoverflow
     {
       /* Give user a chance to reallocate the stack.  Use copies of
          these so that the &'s don't force the real ones into
          memory.  */
       YYSTYPE *yyvs1 = yyvs;
       yytype_int16 *yyss1 = yyss;
       YYLTYPE *yyls1 = yyls;

       /* Each stack pointer address is followed by the size of the
          data in use in that stack, in bytes.  This used to be a
          conditional around just the two extra args, but that might
          be undefined if yyoverflow is a macro.  */
       yyoverflow (YY_("memory exhausted"),
                   &yyss1, yysize * sizeof (*yyssp),
                   &yyvs1, yysize * sizeof (*yyvsp),
                   &yyls1, yysize * sizeof (*yylsp),
                   &yystacksize);

       yyls = yyls1;
       yyss = yyss1;
       yyvs = yyvs1;
     }
#else /* no yyoverflow */
# ifndef YYSTACK_RELOCATE
     goto yyexhaustedlab;
# else
     /* Extend the stack our own way.  */
     if (YYMAXDEPTH <= yystacksize)
```

```
      goto yyexhaustedlab;
    yystacksize *= 2;
    if (YYMAXDEPTH < yystacksize)
      yystacksize = YYMAXDEPTH;

    {
      yytype_int16 *yyss1 = yyss;
      union yyalloc *yyptr =
        (union yyalloc *) YYSTACK_ALLOC (YYSTACK_BYTES (yystacksize));
      if (! yyptr)
        goto yyexhaustedlab;
      YYSTACK_RELOCATE (yyss_alloc, yyss);
      YYSTACK_RELOCATE (yyvs_alloc, yyvs);
      YYSTACK_RELOCATE (yyls_alloc, yyls);
#  undef YYSTACK_RELOCATE
      if (yyss1 != yyssa)
        YYSTACK_FREE (yyss1);
    }
# endif
#endif /* no yyoverflow */

    yyssp = yyss + yysize - 1;
    yyvsp = yyvs + yysize - 1;
    yylsp = yyls + yysize - 1;

    YYDPRINTF ((stderr, "Stack size increased to %lu\n",
            (unsigned long int) yystacksize));

    if (yyss + yystacksize - 1 <= yyssp)
      YYABORT;
  }

 YYDPRINTF ((stderr, "Entering state %d\n", yystate));

 if (yystate == YYFINAL)
   YYACCEPT;

 goto yybackup;

/*-----------.
| yybackup.  |
'-----------*/
yybackup:

 /* Do appropriate processing given the current state.  Read a
    lookahead token if we need one and don't already have one.  */

 /* First try to decide what to do without reference to lookahead token.  */
```

```
yyn = yypact[yystate];
if (yypact_value_is_default (yyn))
  goto yydefault;

/* Not known => get a lookahead token if don't already have one.  */

/* YYCHAR is either YYEMPTY or YYEOF or a valid lookahead symbol.  */
if (yychar == YYEMPTY)
  {
    YYDPRINTF ((stderr, "Reading a token: "));
    yychar = yylex (&yylval, &yylloc, lexer);
  }

if (yychar <= YYEOF)
  {
    yychar = yytoken = YYEOF;
    YYDPRINTF ((stderr, "Now at end of input.\n"));
  }
else
  {
    yytoken = YYTRANSLATE (yychar);
    YY_SYMBOL_PRINT ("Next token is", yytoken, &yylval, &yylloc);
  }

/* If the proper action on seeing token YYTOKEN is to reduce or to
   detect an error, take that action.  */
yyn += yytoken;
if (yyn < 0 || YYLAST < yyn || yycheck[yyn] != yytoken)
  goto yydefault;
yyn = yytable[yyn];
if (yyn <= 0)
  {
    if (yytable_value_is_error (yyn))
      goto yyerrlab;
    yyn = -yyn;
    goto yyreduce;
  }

/* Count tokens shifted since error; after three, turn off error
   status.  */
if (yyerrstatus)
  yyerrstatus--;

/* Shift the lookahead token.  */
YY_SYMBOL_PRINT ("Shifting", yytoken, &yylval, &yylloc);

/* Discard the shifted token.  */
yychar = YYEMPTY;
```

```
 yystate = yyn;
 YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
 *++yyvsp = yylval;
 YY_IGNORE_MAYBE_UNINITIALIZED_END
 *++yylsp = yylloc;
 goto yynewstate;


/*-----------------------------------------------------------.
| yydefault -- do the default action for the current state.  |
'-----------------------------------------------------------*/
yydefault:
 yyn = yydefact[yystate];
 if (yyn == 0)
   goto yyerrlab;
 goto yyreduce;


/*-----------------------------.
| yyreduce -- Do a reduction.  |
'-----------------------------*/
yyreduce:
 /* yyn is the number of a rule to reduce with.  */
 yylen = yyr2[yyn];

 /* If YYLEN is nonzero, implement the default value of the action:
    '$$ = $1'.

    Otherwise, the following line sets YYVAL to garbage.
    This behavior is undocumented and Bison
    users should not rely upon it.  Assigning to YYVAL
    unconditionally makes the parser a bit smaller, and it avoids a
    GCC warning that YYVAL may be used uninitialized.  */
 yyval = yyvsp[1-yylen];

 /* Default location.  */
 YYLLOC_DEFAULT (yyloc, (yylsp - yylen), yylen);
 YY_REDUCE_PRINT (yyn);
 switch (yyn)
   {
       case 2:
#line 387 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { *result = log_expr_node_append_tail((yyvsp[-1].ptr), (yyvsp[0].ptr)); if (yychar != YYEMPTY) {
cfg_lexer_unput_token(lexer, &yylval); } YYACCEPT; }
#line 2942 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;
```

```
 case 3:
#line 391 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])),
(yyvsp[0].ptr)); }
#line 2948 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 4:
#line 392 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr),  (yyvsp[0].ptr)); }
#line 2954 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 5:
#line 393 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = NULL; }
#line 2960 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 6:
#line 398 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   {
     GError *error = NULL;

     (yyval.ptr) = log_template_new(configuration, (yyvsp[0].cptr));
     CHECK_ERROR_GERROR(log_template_compile((yyval.ptr), (yyvsp[0].cptr), &error), (yylsp[0]), error, "error
compiling replacement");
       free((yyvsp[0].cptr));
   }
#line 2972 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 7:
#line 409 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   {
         last_rewrite = log_rewrite_subst_new((yyvsp[0].ptr), configuration);
         log_template_unref((yyvsp[0].ptr));
        }
#line 2981 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 8:
#line 414 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   {
         GError *error = NULL;
         CHECK_ERROR_GERROR(log_rewrite_subst_compile_pattern(last_rewrite, (yyvsp[-4].cptr), &error),
(yylsp[-4]), error, "error compiling search pattern");
         free((yyvsp[-4].cptr));
```

```
          (yyval.ptr) = last_rewrite;
        }
#line 2992 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 9:
#line 421 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    {
          last_rewrite = log_rewrite_set_new((yyvsp[0].ptr), configuration);
          log_template_unref((yyvsp[0].ptr));
        }
#line 3001 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 10:
#line 425 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = last_rewrite; }
#line 3007 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 11:
#line 426 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = log_rewrite_set_tag_new((yyvsp[-1].cptr), TRUE, configuration); free((yyvsp[-1].cptr)); }
#line 3013 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 12:
#line 427 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = log_rewrite_set_tag_new((yyvsp[-1].cptr), FALSE, configuration); free((yyvsp[-1].cptr)); }
#line 3019 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 13:
#line 429 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    {
          last_rewrite = log_rewrite_groupset_new((yyvsp[0].ptr), configuration);
          log_template_unref((yyvsp[0].ptr));
          }
#line 3028 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 14:
#line 433 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = last_rewrite; }
#line 3034 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 15:
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#line 436 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        Plugin *p;
        gint context = LL_CONTEXT_REWRITE;

        p = plugin_find(configuration, context, (yyvsp[0].cptr));
        CHECK_ERROR(p, (yylsp[0]), "%s plugin %s not found",
cfg_lexer_lookup_context_name_by_type(context), (yyvsp[0].cptr));

        last_rewrite = (LogRewrite *) plugin_parse_config(p, configuration, &(yylsp[0]), NULL);
        free((yyvsp[0].cptr));
        if (!last_rewrite)
          {
            YYERROR;
          }
        (yyval.ptr) = last_rewrite;
       }
#line 3054 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 18:
#line 460 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        log_rewrite_groupset_add_fields(last_rewrite, (yyvsp[-1].ptr));
       }
#line 3062 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 22:
#line 472 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_matcher_options = log_rewrite_subst_get_matcher_options(last_rewrite); }
#line 3068 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 27:
#line 483 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        const gchar *p = (yyvsp[-1].cptr);
        if (p[0] == '$')
          {
            msg_warning("Value references in rewrite rules should not use the '$' prefix, those are only needed in
templates",
                        evt_tag_str("value", (yyvsp[-1].cptr)),
                        NULL);
            p++;
          }
        last_rewrite->value_handle = log_msg_get_value_handle(p);
        CHECK_ERROR(!log_msg_is_handle_macro(last_rewrite->value_handle), (yylsp[-1]), "%s is read-only, it
```

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cannot be changed in rewrite rules", p);
    CHECK_ERROR(log_msg_is_value_name_valid(p), (yylsp[-1]), "%s is not a valid name for a name-value pair,
perhaps a misspelled .SDATA reference?", p);
          free((yyvsp[-1].cptr));
        }
#line 3087 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 29:
#line 502 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
          FilterExprNode *filter_expr;

          CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&filter_expr_parser, lexer, (gpointer *)
&filter_expr, NULL), (yylsp[-1]));
          log_rewrite_set_condition(last_rewrite, filter_expr);
        }
#line 3098 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 31:
#line 514 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { cfg_lexer_push_context(lexer, LL_CONTEXT_SOURCE, NULL, "source"); }
#line 3104 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 32:
#line 516 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { cfg_lexer_pop_context(lexer); }
#line 3110 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 33:
#line 517 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
          (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc));
        }
#line 3118 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 34:
#line 523 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])),
(yyvsp[0].ptr)); }
#line 3124 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 35:
```

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#line 524 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr),  (yyvsp[0].ptr)); }
#line 3130 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 36:
#line 525 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = NULL; }
#line 3136 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 37:
#line 529 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = (yyvsp[0].ptr); }
#line 3142 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 38:
#line 530 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = (yyvsp[0].ptr); }
#line 3148 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 39:
#line 535 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        Plugin *p;
        gint context = LL_CONTEXT_SOURCE;

        p = plugin_find(configuration, context, (yyvsp[0].cptr));
        CHECK_ERROR(p, (yylsp[0]), "%s plugin %s not found",
cfg_lexer_lookup_context_name_by_type(context), (yyvsp[0].cptr));

        last_driver = (LogDriver *) plugin_parse_config(p, configuration, &(yylsp[0]), NULL);
        free((yyvsp[0].cptr));
        if (!last_driver)
          {
            YYERROR;
          }
        (yyval.ptr) = last_driver;
       }
#line 3168 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 40:
#line 553 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = (yyvsp[-1].ptr); }
#line 3174 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
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  break;

 case 41:
#line 557 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        last_driver = afinter_sd_new(configuration);
        last_source_options = &((AFInterSourceDriver *) last_driver)->source_options;
       }
#line 3183 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 42:
#line 561 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = last_driver; }
#line 3189 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 46:
#line 575 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        FilterExprNode *last_filter_expr = NULL;

    CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&filter_expr_parser, lexer, (gpointer *)
&last_filter_expr, NULL), (yyloc));

        (yyval.ptr) = log_expr_node_new_pipe(log_filter_pipe_new(last_filter_expr, configuration), &(yyloc));
  }
#line 3201 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 47:
#line 586 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        LogExprNode *last_parser_expr = NULL;

        CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&parser_expr_parser, lexer, (gpointer *)
&last_parser_expr, NULL), (yyloc));
        (yyval.ptr) = last_parser_expr;
       }
#line 3212 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 48:
#line 596 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        LogExprNode *last_rewrite_expr = NULL;

        CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&rewrite_expr_parser, lexer, (gpointer *)
```

```
&last_rewrite_expr, NULL), (yyloc));
          (yyval.ptr) = last_rewrite_expr;
        }
#line 3223 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 49:
#line 605 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { cfg_lexer_push_context(lexer, LL_CONTEXT_DESTINATION, NULL, "destination"); }
#line 3229 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 50:
#line 607 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { cfg_lexer_pop_context(lexer); }
#line 3235 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 51:
#line 608 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    {
          (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc));
        }
#line 3243 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 52:
#line 616 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])),
(yyvsp[0].ptr)); }
#line 3249 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 53:
#line 617 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr),  (yyvsp[0].ptr)); }
#line 3255 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 54:
#line 618 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = NULL; }
#line 3261 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 55:
#line 622 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = (yyvsp[0].ptr); }
```

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#line 3267 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 56:
#line 627 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        Plugin *p;
        gint context = LL_CONTEXT_DESTINATION;

        p = plugin_find(configuration, context, (yyvsp[0].cptr));
        CHECK_ERROR(p, (yylsp[0]), "%s plugin %s not found",
cfg_lexer_lookup_context_name_by_type(context), (yyvsp[0].cptr));

        last_driver = (LogDriver *) plugin_parse_config(p, configuration, &(yylsp[0]), NULL);
        free((yyvsp[0].cptr));
        if (!last_driver)
          {
            YYERROR;
          }
        (yyval.ptr) = last_driver;
       }
#line 3287 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 57:
#line 645 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); (yyval.ptr) = (yyvsp[-2].ptr); }
#line 3293 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 58:
#line 646 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = NULL; }
#line 3299 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 59:
#line 650 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = log_expr_node_new_source_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3305 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 60:
#line 651 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = log_expr_node_new_source(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3311 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;
```

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 case 61:
#line 652 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_filter_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3317 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 62:
#line 653 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_filter(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3323 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 63:
#line 654 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_parser_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3329 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 64:
#line 655 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_parser(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3335 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 65:
#line 656 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_rewrite_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3341 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 66:
#line 657 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_rewrite(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3347 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 67:
#line 658 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_destination_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3353 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 68:
#line 659 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_destination(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3359 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;
```

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 case 69:
#line 660 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = (yyvsp[0].ptr); }
#line 3365 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 70:
#line 664 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc)); }
#line 3371 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 71:
#line 676 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = (yyvsp[0].ptr) ? log_expr_node_new_junction((yyvsp[0].ptr), &(yylsp[0])) :  NULL; }
#line 3377 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 72:
#line 681 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); (yyval.ptr) = (yyvsp[-2].ptr); }
#line 3383 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 73:
#line 682 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = NULL; }
#line 3389 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 74:
#line 686 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = (yyvsp[-1].ptr); }
#line 3395 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 75:
#line 687 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = (yyvsp[-1].ptr); }
#line 3401 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 76:
#line 691 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_log(log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[-1].ptr)),
(yyvsp[0].num), &(yyloc)); }
#line 3407 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;
```

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 case 77:
#line 695 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = (yyvsp[-2].num); }
#line 3413 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 78:
#line 696 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = 0; }
#line 3419 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 79:
#line 700 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = log_expr_node_lookup_flag((yyvsp[-1].cptr)) | (yyvsp[0].num); free((yyvsp[-1].cptr)); }
#line 3425 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 80:
#line 701 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = 0; }
#line 3431 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 83:
#line 737 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = 1; }
#line 3437 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 84:
#line 738 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = 0; }
#line 3443 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 85:
#line 739 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = (yyvsp[0].num); }
#line 3449 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 86:
#line 743 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = (yyvsp[0].num); }
#line 3455 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;
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 case 87:
#line 744 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.num) = 2; }
#line 3461 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 88:
#line 754 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = g_list_reverse((yyvsp[0].ptr)); }
#line 3467 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 89:
#line 758 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = g_list_append((yyvsp[0].ptr), g_strdup((yyvsp[-1].cptr))); free((yyvsp[-1].cptr)); }
#line 3473 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 90:
#line 759 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = NULL; }
#line 3479 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 93:
#line 810 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { last_source_options->init_window_size = (yyvsp[-1].num); }
#line 3485 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 94:
#line 811 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { last_source_options->chain_hostnames = (yyvsp[-1].num); }
#line 3491 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 95:
#line 812 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { last_source_options->keep_hostname = (yyvsp[-1].num); }
#line 3497 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 96:
#line 813 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { last_source_options->program_override = g_strdup((yyvsp[-1].cptr)); free((yyvsp[-1].cptr)); }
#line 3503 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;
```

```
 case 97:
#line 814 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_source_options->host_override = g_strdup((yyvsp[-1].cptr)); free((yyvsp[-1].cptr)); }
#line 3509 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 98:
#line 815 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { gchar *p = strrchr((yyvsp[-1].cptr), ':'); if (p) *p = 0; last_source_options->program_override =
g_strdup((yyvsp[-1].cptr)); free((yyvsp[-1].cptr)); }
#line 3515 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 99:
#line 816 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_source_options->keep_timestamp = (yyvsp[-1].num); }
#line 3521 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 100:
#line 817 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { log_source_options_set_tags(last_source_options, (yyvsp[-1].ptr)); }
#line 3527 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 101:
#line 818 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_host_resolve_options = &last_source_options->host_resolve_options; }
#line 3533 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 103:
#line 831 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_host_resolve_options->use_fqdn = (yyvsp[-1].num); }
#line 3539 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 104:
#line 832 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_host_resolve_options->use_dns = (yyvsp[-1].num); }
#line 3545 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 105:
#line 833 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_host_resolve_options->use_dns_cache = (yyvsp[-1].num); }
#line 3551 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
```

```
  break;

 case 106:
#line 834 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_host_resolve_options->normalize_hostnames = (yyvsp[-1].num); }
#line 3557 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 107:
#line 978 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { CHECK_ERROR(log_matcher_options_set_type(last_matcher_options, (yyvsp[-1].cptr)), (yylsp[-1]),
"unknown matcher type"); free((yyvsp[-1].cptr)); }
#line 3563 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 109:
#line 983 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { CHECK_ERROR(log_matcher_options_process_flag(last_matcher_options, (yyvsp[-1].cptr)), (yylsp[-1]),
"unknown matcher flag"); free((yyvsp[-1].cptr)); }
#line 3569 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;


#line 3573 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    default: break;
  }
 /* User semantic actions sometimes alter yychar, and that requires
    that yytoken be updated with the new translation.  We take the
    approach of translating immediately before every use of yytoken.
    One alternative is translating here after every semantic action,
    but that translation would be missed if the semantic action invokes
    YYABORT, YYACCEPT, or YYERROR immediately after altering yychar or
    if it invokes YYBACKUP.  In the case of YYABORT or YYACCEPT, an
    incorrect destructor might then be invoked immediately.  In the
    case of YYERROR or YYBACKUP, subsequent parser actions might lead
    to an incorrect destructor call or verbose syntax error message
    before the lookahead is translated.  */
 YY_SYMBOL_PRINT ("-> $$ =", yyr1[yyn], &yyval, &yyloc);

 YYPOPSTACK (yylen);
 yylen = 0;
 YY_STACK_PRINT (yyss, yyssp);

 *++yyvsp = yyval;
 *++yylsp = yyloc;

 /* Now 'shift' the result of the reduction.  Determine what state
    that goes to, based on the state we popped back to and the rule
```

```
   number reduced by.  */

 yyn = yyr1[yyn];

 yystate = yypgoto[yyn - YYNTOKENS] + *yyssp;
 if (0 <= yystate && yystate <= YYLAST && yycheck[yystate] == *yyssp)
  yystate = yytable[yystate];
 else
  yystate = yydefgoto[yyn - YYNTOKENS];

 goto yynewstate;


/*------------------------------------.
| yyerrlab -- here on detecting error.  |
'------------------------------------*/
yyerrlab:
 /* Make sure we have latest lookahead translation.  See comments at
    user semantic actions for why this is necessary.  */
 yytoken = yychar == YYEMPTY ? YYEMPTY : YYTRANSLATE (yychar);

 /* If not already recovering from an error, report this error.  */
 if (!yyerrstatus)
   {
     ++yynerrs;
#if ! YYERROR_VERBOSE
     yyerror (&yylloc, lexer, result, arg, YY_("syntax error"));
#else
# define YYSYNTAX_ERROR yysyntax_error (&yymsg_alloc, &yymsg, \
                                        yyssp, yytoken)
     {
       char const *yymsgp = YY_("syntax error");
       int yysyntax_error_status;
       yysyntax_error_status = YYSYNTAX_ERROR;
       if (yysyntax_error_status == 0)
         yymsgp = yymsg;
       else if (yysyntax_error_status == 1)
         {
           if (yymsg != yymsgbuf)
             YYSTACK_FREE (yymsg);
           yymsg = (char *) YYSTACK_ALLOC (yymsg_alloc);
           if (!yymsg)
             {
               yymsg = yymsgbuf;
               yymsg_alloc = sizeof yymsgbuf;
               yysyntax_error_status = 2;
             }
           else
```

```
            {
              yysyntax_error_status = YYSYNTAX_ERROR;
              yymsgp = yymsg;
            }
          }
        yyerror (&yylloc, lexer, result, arg, yymsgp);
        if (yysyntax_error_status == 2)
          goto yyexhaustedlab;
      }
# undef YYSYNTAX_ERROR
#endif
    }

  yyerror_range[1] = yylloc;

  if (yyerrstatus == 3)
    {
      /* If just tried and failed to reuse lookahead token after an
         error, discard it.  */

      if (yychar <= YYEOF)
        {
          /* Return failure if at end of input.  */
          if (yychar == YYEOF)
            YYABORT;
        }
      else
        {
          yydestruct ("Error: discarding",
                      yytoken, &yylval, &yylloc, lexer, result, arg);
          yychar = YYEMPTY;
        }
    }

  /* Else will try to reuse lookahead token after shifting the error
     token.  */
  goto yyerrlab1;


/*---------------------------------------------------.
| yyerrorlab -- error raised explicitly by YYERROR.  |
'---------------------------------------------------*/
yyerrorlab:

  /* Pacify compilers like GCC when the user code never invokes
     YYERROR and the label yyerrorlab therefore never appears in user
     code.  */
  if (/*CONSTCOND*/ 0)
```

```
  goto yyerrorlab;

yyerror_range[1] = yylsp[1-yylen];
/* Do not reclaim the symbols of the rule whose action triggered
   this YYERROR.  */
YYPOPSTACK (yylen);
yylen = 0;
YY_STACK_PRINT (yyss, yyssp);
yystate = *yyssp;
goto yyerrlab1;


/*-------------------------------------------------------------.
| yyerrlab1 -- common code for both syntax error and YYERROR.  |
'-------------------------------------------------------------*/
yyerrlab1:
yyerrstatus = 3;      /* Each real token shifted decrements this.  */

for (;;)
  {
    yyn = yypact[yystate];
    if (!yypact_value_is_default (yyn))
      {
        yyn += YYTERROR;
        if (0 <= yyn && yyn <= YYLAST && yycheck[yyn] == YYTERROR)
          {
            yyn = yytable[yyn];
            if (0 < yyn)
              break;
          }
      }

    /* Pop the current state because it cannot handle the error token.  */
    if (yyssp == yyss)
      YYABORT;

    yyerror_range[1] = *yylsp;
    yydestruct ("Error: popping",
                yystos[yystate], yyvsp, yylsp, lexer, result, arg);
    YYPOPSTACK (1);
    yystate = *yyssp;
    YY_STACK_PRINT (yyss, yyssp);
  }

YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
*++yyvsp = yylval;
YY_IGNORE_MAYBE_UNINITIALIZED_END
```

```
 yyerror_range[2] = yylloc;
 /* Using YYLLOC is tempting, but would change the location of
    the lookahead.  YYLOC is available though.  */
 YYLLOC_DEFAULT (yyloc, yyerror_range, 2);
 *++yylsp = yyloc;

 /* Shift the error token.  */
 YY_SYMBOL_PRINT ("Shifting", yystos[yyn], yyvsp, yylsp);

 yystate = yyn;
 goto yynewstate;


/*-------------------------------------.
| yyacceptlab -- YYACCEPT comes here.  |
'-------------------------------------*/
yyacceptlab:
 yyresult = 0;
 goto yyreturn;

/*-----------------------------------.
| yyabortlab -- YYABORT comes here.  |
'-----------------------------------*/
yyabortlab:
 yyresult = 1;
 goto yyreturn;

#if !defined yyoverflow || YYERROR_VERBOSE
/*-------------------------------------------------.
| yyexhaustedlab -- memory exhaustion comes here.  |
'-------------------------------------------------*/
yyexhaustedlab:
 yyerror (&yylloc, lexer, result, arg, YY_("memory exhausted"));
 yyresult = 2;
 /* Fall through.  */
#endif

yyreturn:
 if (yychar != YYEMPTY)
   {
     /* Make sure we have latest lookahead translation.  See comments at
        user semantic actions for why this is necessary.  */
     yytoken = YYTRANSLATE (yychar);
     yydestruct ("Cleanup: discarding lookahead",
                 yytoken, &yylval, &yylloc, lexer, result, arg);
   }
 /* Do not reclaim the symbols of the rule whose action triggered
    this YYABORT or YYACCEPT.  */
```

```
 YYPOPSTACK (yylen);
 YY_STACK_PRINT (yyss, yyssp);
 while (yyssp != yyss)
   {
     yydestruct ("Cleanup: popping",
                 yystos[*yyssp], yyvsp, yylsp, lexer, result, arg);
     YYPOPSTACK (1);
   }
#ifndef yyoverflow
 if (yyss != yyssa)
   YYSTACK_FREE (yyss);
#endif
#if YYERROR_VERBOSE
 if (yymsg != yymsgbuf)
   YYSTACK_FREE (yymsg);
#endif
 return yyresult;
}
#line 1048 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1906  */
```

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====

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4.173 Sysvinit 2.88dsf

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.

4.174 tar 1.26

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4.175 time 1.7

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4.177 tipcutils 2.0.5 :08 Aug 2012

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the

entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

4.182 udev 182

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*/

// JSLitmus.js
//
// History:
//   2008-10-27: Initial release
//   2008-11-09: Account for iteration loop overhead
//   2008-11-13: Added OS detection
//   2009-02-25: Create tinyURL automatically, shift-click runs tests in reverse
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4.185 unzip 6.0

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4.186 usbutils 0.86 :ASA

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Changes:
19990319 - Arnaldo Carvalho de Melo <acme@conectiva.com.br> - i18n/nls

20000101 - David Huggins-Daines <dhuggins@linuxcare.com> - Better

support for OSF/1 disklabels on Alpha.
Also fixed unaligned accesses in alpha_bootblock_checksum()
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4.188 util-linux/Gplv3 2.23.2 :3267156a85f90f099a7591311e28c8af

4.188.1 Available under license :

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated

straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the

Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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4.192 xz 5.1.2alpha :2012-07-04

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==========

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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with this program; if not, write to the Free Software Foundation,
Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. */

```
#ifndef _LIBC
# include <config.h>
#endif

#include "getopt.h"

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>

#ifdef __VMS
# include <unixlib.h>
#endif

/* Completely disable NLS for getopt. We won't include translations for it
  anyway. If the system lacks getopt_long, missing translations probably
  aren't a problem.  */
/*
#ifdef _LIBC
# include <libintl.h>
#else
# include "gettext.h"
# define _(msgid) gettext (msgid)
#endif
*/
#define _(msgid) (msgid)

#if defined _LIBC && defined USE_IN_LIBIO
# include <wchar.h>
#endif

#ifndef attribute_hidden
# define attribute_hidden
#endif

/* Unlike standard Unix 'getopt', functions like 'getopt_long'
  let the user intersperse the options with the other arguments.

  As 'getopt_long' works, it permutes the elements of ARGV so that,
  when it is done, all the options precede everything else.  Thus
  all application programs are extended to handle flexible argument order.

  Using 'getopt' or setting the environment variable POSIXLY_CORRECT
  disables permutation.
  Then the application's behavior is completely standard.
```

```
  GNU application programs can use a third alternative mode in which
  they can distinguish the relative order of options and other arguments.  */

#include "getopt_int.h"

/* For communication from 'getopt' to the caller.
  When 'getopt' finds an option that takes an argument,
  the argument value is returned here.
  Also, when 'ordering' is RETURN_IN_ORDER,
  each non-option ARGV-element is returned here.  */

char *optarg;

/* Index in ARGV of the next element to be scanned.
  This is used for communication to and from the caller
  and for communication between successive calls to 'getopt'.

  On entry to 'getopt', zero means this is the first call; initialize.

  When 'getopt' returns -1, this is the index of the first of the
  non-option elements that the caller should itself scan.

  Otherwise, 'optind' communicates from one call to the next
  how much of ARGV has been scanned so far.  */

/* 1003.2 says this must be 1 before any call.  */
int optind = 1;

/* Callers store zero here to inhibit the error message
  for unrecognized options.  */

int opterr = 1;

/* Set to an option character which was unrecognized.
  This must be initialized on some systems to avoid linking in the
  system's own getopt implementation.  */

int optopt = '?';

/* Keep a global copy of all internal members of getopt_data.  */

static struct _getopt_data getopt_data;


#if defined HAVE_DECL_GETENV && !HAVE_DECL_GETENV
extern char *getenv ();
#endif
```

```
#ifdef _LIBC
/* Stored original parameters.
  XXX This is no good solution.  We should rather copy the args so
  that we can compare them later.  But we must not use malloc(3).  */
extern int __libc_argc;
extern char **__libc_argv;

/* Bash 2.0 gives us an environment variable containing flags
  indicating ARGV elements that should not be considered arguments.  */

# ifdef USE_NONOPTION_FLAGS
/* Defined in getopt_init.c  */
extern char *__getopt_nonoption_flags;
# endif

# ifdef USE_NONOPTION_FLAGS
#  define SWAP_FLAGS(ch1, ch2) \
 if (d->__nonoption_flags_len > 0)          \
   {              \
     char __tmp = __getopt_nonoption_flags[ch1];        \
     __getopt_nonoption_flags[ch1] = __getopt_nonoption_flags[ch2];      \
     __getopt_nonoption_flags[ch2] = __tmp;         \
   }
# else
#  define SWAP_FLAGS(ch1, ch2)
# endif
#else /* !_LIBC */
# define SWAP_FLAGS(ch1, ch2)
#endif /* _LIBC */

/* Exchange two adjacent subsequences of ARGV.
  One subsequence is elements [first_nonopt,last_nonopt)
  which contains all the non-options that have been skipped so far.
  The other is elements [last_nonopt,optind), which contains all
  the options processed since those non-options were skipped.

  'first_nonopt' and 'last_nonopt' are relocated so that they describe
  the new indices of the non-options in ARGV after they are moved.  */

static void
exchange (char **argv, struct _getopt_data *d)
{
 int bottom = d->__first_nonopt;
 int middle = d->__last_nonopt;
 int top = d->optind;
 char *tem;

 /* Exchange the shorter segment with the far end of the longer segment.
```

```
   That puts the shorter segment into the right place.
   It leaves the longer segment in the right place overall,
   but it consists of two parts that need to be swapped next.  */

#if defined _LIBC && defined USE_NONOPTION_FLAGS
 /* First make sure the handling of the '__getopt_nonoption_flags'
    string can work normally.  Our top argument must be in the range
    of the string.  */
 if (d->__nonoption_flags_len > 0 && top >= d->__nonoption_flags_max_len)
   {
     /* We must extend the array.  The user plays games with us and
  presents new arguments.  */
     char *new_str = malloc (top + 1);
     if (new_str == NULL)
 d->__nonoption_flags_len = d->__nonoption_flags_max_len = 0;
     else
 {
   memset (__mempcpy (new_str, __getopt_nonoption_flags,
         d->__nonoption_flags_max_len),
    '\0', top + 1 - d->__nonoption_flags_max_len);
   d->__nonoption_flags_max_len = top + 1;
   __getopt_nonoption_flags = new_str;
 }
   }
#endif

 while (top > middle && middle > bottom)
   {
     if (top - middle > middle - bottom)
 {
   /* Bottom segment is the short one.  */
   int len = middle - bottom;
   register int i;

   /* Swap it with the top part of the top segment.  */
   for (i = 0; i < len; i++)
     {
       tem = argv[bottom + i];
       argv[bottom + i] = argv[top - (middle - bottom) + i];
       argv[top - (middle - bottom) + i] = tem;
       SWAP_FLAGS (bottom + i, top - (middle - bottom) + i);
     }
   /* Exclude the moved bottom segment from further swapping.  */
   top -= len;
 }
     else
 {
   /* Top segment is the short one.  */
```

```
  int len = top - middle;
  register int i;

  /* Swap it with the bottom part of the bottom segment.  */
  for (i = 0; i < len; i++)
    {
      tem = argv[bottom + i];
      argv[bottom + i] = argv[middle + i];
      argv[middle + i] = tem;
      SWAP_FLAGS (bottom + i, middle + i);
    }
  /* Exclude the moved top segment from further swapping.  */
  bottom += len;
 }
  }

 /* Update records for the slots the non-options now occupy.  */

 d->__first_nonopt += (d->optind - d->__last_nonopt);
 d->__last_nonopt = d->optind;
}

/* Initialize the internal data when the first call is made.  */

static const char *
_getopt_initialize (int argc, char **argv, const char *optstring,
      int posixly_correct, struct _getopt_data *d)
{
 /* Start processing options with ARGV-element 1 (since ARGV-element 0
    is the program name); the sequence of previously skipped
    non-option ARGV-elements is empty.  */

 d->__first_nonopt = d->__last_nonopt = d->optind;

 d->__nextchar = NULL;

 d->__posixly_correct = posixly_correct || !!getenv ("POSIXLY_CORRECT");

 /* Determine how to handle the ordering of options and nonoptions.  */

 if (optstring[0] == '-')
   {
     d->__ordering = RETURN_IN_ORDER;
     ++optstring;
   }
 else if (optstring[0] == '+')
   {
     d->__ordering = REQUIRE_ORDER;
```

```
    ++optstring;
  }
 else if (d->__posixly_correct)
  d->__ordering = REQUIRE_ORDER;
 else
  d->__ordering = PERMUTE;

#if defined _LIBC && defined USE_NONOPTION_FLAGS
 if (!d->__posixly_correct
    && argc == __libc_argc && argv == __libc_argv)
  {
    if (d->__nonoption_flags_max_len == 0)
 {
  if (__getopt_nonoption_flags == NULL
      || __getopt_nonoption_flags[0] == '\0')
    d->__nonoption_flags_max_len = -1;
  else
    {
      const char *orig_str = __getopt_nonoption_flags;
      int len = d->__nonoption_flags_max_len = strlen (orig_str);
      if (d->__nonoption_flags_max_len < argc)
 d->__nonoption_flags_max_len = argc;
      __getopt_nonoption_flags =
 (char *) malloc (d->__nonoption_flags_max_len);
      if (__getopt_nonoption_flags == NULL)
 d->__nonoption_flags_max_len = -1;
      else
 memset (__mempcpy (__getopt_nonoption_flags, orig_str, len),
  '\0', d->__nonoption_flags_max_len - len);
    }
 }
    d->__nonoption_flags_len = d->__nonoption_flags_max_len;
  }
 else
  d->__nonoption_flags_len = 0;
#endif

 return optstring;
}

/* Scan elements of ARGV (whose length is ARGC) for option characters
  given in OPTSTRING.

  If an element of ARGV starts with '-', and is not exactly "-" or "--",
  then it is an option element.  The characters of this element
  (aside from the initial '-') are option characters.  If 'getopt'
  is called repeatedly, it returns successively each of the option characters
  from each of the option elements.
```

```
   If 'getopt' finds another option character, it returns that character,
   updating 'optind' and 'nextchar' so that the next call to 'getopt' can
   resume the scan with the following option character or ARGV-element.

   If there are no more option characters, 'getopt' returns -1.
   Then 'optind' is the index in ARGV of the first ARGV-element
   that is not an option.  (The ARGV-elements have been permuted
   so that those that are not options now come last.)

   OPTSTRING is a string containing the legitimate option characters.
   If an option character is seen that is not listed in OPTSTRING,
   return '?' after printing an error message.  If you set 'opterr' to
   zero, the error message is suppressed but we still return '?'.

   If a char in OPTSTRING is followed by a colon, that means it wants an arg,
   so the following text in the same ARGV-element, or the text of the following
   ARGV-element, is returned in 'optarg'.  Two colons mean an option that
   wants an optional arg; if there is text in the current ARGV-element,
   it is returned in 'optarg', otherwise 'optarg' is set to zero.

   If OPTSTRING starts with '-' or '+', it requests different methods of
   handling the non-option ARGV-elements.
   See the comments about RETURN_IN_ORDER and REQUIRE_ORDER, above.

   Long-named options begin with '--' instead of '-'.
   Their names may be abbreviated as long as the abbreviation is unique
   or is an exact match for some defined option.  If they have an
   argument, it follows the option name in the same ARGV-element, separated
   from the option name by a '=', or else the in next ARGV-element.
   When 'getopt' finds a long-named option, it returns 0 if that option's
   'flag' field is nonzero, the value of the option's 'val' field
   if the 'flag' field is zero.

   LONGOPTS is a vector of 'struct option' terminated by an
   element containing a name which is zero.

   LONGIND returns the index in LONGOPT of the long-named option found.
   It is only valid when a long-named option has been found by the most
   recent call.

   If LONG_ONLY is nonzero, '-' as well as '--' can introduce
   long-named options.

   If POSIXLY_CORRECT is nonzero, behave as if the POSIXLY_CORRECT
   environment variable were set.  */

int
```

```
_getopt_internal_r (int argc, char **argv, const char *optstring,
      const struct option *longopts, int *longind,
      int long_only, int posixly_correct, struct _getopt_data *d)
{
 int print_errors = d->opterr;
 if (optstring[0] == ':')
  print_errors = 0;

 if (argc < 1)
  return -1;

 d->optarg = NULL;

 if (d->optind == 0 || !d->__initialized)
  {
    if (d->optind == 0)
 d->optind = 1; /* Don't scan ARGV[0], the program name.  */
    optstring = _getopt_initialize (argc, argv, optstring,
        posixly_correct, d);
    d->__initialized = 1;
  }

 /* Test whether ARGV[optind] points to a non-option argument.
    Either it does not have option syntax, or there is an environment flag
    from the shell indicating it is not an option.  The later information
    is only used when the used in the GNU libc.  */
#if defined _LIBC && defined USE_NONOPTION_FLAGS
# define NONOPTION_P (argv[d->optind][0] != '-' || argv[d->optind][1] == '\0' \
       || (d->optind < d->__nonoption_flags_len        \
    && __getopt_nonoption_flags[d->optind] == '1'))
#else
# define NONOPTION_P (argv[d->optind][0] != '-' || argv[d->optind][1] == '\0')
#endif

 if (d->__nextchar == NULL || *d->__nextchar == '\0')
  {
    /* Advance to the next ARGV-element.  */

    /* Give FIRST_NONOPT & LAST_NONOPT rational values if OPTIND has been
  moved back by the user (who may also have changed the arguments).  */
    if (d->__last_nonopt > d->optind)
 d->__last_nonopt = d->optind;
    if (d->__first_nonopt > d->optind)
 d->__first_nonopt = d->optind;

    if (d->__ordering == PERMUTE)
 {
  /* If we have just processed some options following some non-options,
```

```
    exchange them so that the options come first.  */

  if (d->__first_nonopt != d->__last_nonopt
      && d->__last_nonopt != d->optind)
    exchange ((char **) argv, d);
  else if (d->__last_nonopt != d->optind)
    d->__first_nonopt = d->optind;

  /* Skip any additional non-options
     and extend the range of non-options previously skipped.  */

  while (d->optind < argc && NONOPTION_P)
    d->optind++;
  d->__last_nonopt = d->optind;
}

   /* The special ARGV-element '--' means premature end of options.
  Skip it like a null option,
  then exchange with previous non-options as if it were an option,
  then skip everything else like a non-option.  */

   if (d->optind != argc && !strcmp (argv[d->optind], "--"))
{
  d->optind++;

  if (d->__first_nonopt != d->__last_nonopt
      && d->__last_nonopt != d->optind)
    exchange ((char **) argv, d);
  else if (d->__first_nonopt == d->__last_nonopt)
    d->__first_nonopt = d->optind;
  d->__last_nonopt = argc;

  d->optind = argc;
}

   /* If we have done all the ARGV-elements, stop the scan
  and back over any non-options that we skipped and permuted.  */

   if (d->optind == argc)
{
  /* Set the next-arg-index to point at the non-options
     that we previously skipped, so the caller will digest them.  */
  if (d->__first_nonopt != d->__last_nonopt)
    d->optind = d->__first_nonopt;
  return -1;
}

   /* If we have come to a non-option and did not permute it,
```

```
 either stop the scan or describe it to the caller and pass it by.  */

   if (NONOPTION_P)
{
 if (d->__ordering == REQUIRE_ORDER)
   return -1;
 d->optarg = argv[d->optind++];
 return 1;
}

   /* We have found another option-ARGV-element.
 Skip the initial punctuation.  */

   d->__nextchar = (argv[d->optind] + 1
  + (longopts != NULL && argv[d->optind][1] == '-'));
  }

/* Decode the current option-ARGV-element.  */

/* Check whether the ARGV-element is a long option.

   If long_only and the ARGV-element has the form "-f", where f is
   a valid short option, don't consider it an abbreviated form of
   a long option that starts with f.  Otherwise there would be no
   way to give the -f short option.

   On the other hand, if there's a long option "fubar" and
   the ARGV-element is "-fu", do consider that an abbreviation of
   the long option, just like "--fu", and not "-f" with arg "u".

   This distinction seems to be the most useful approach.  */

if (longopts != NULL
    && (argv[d->optind][1] == '-'
  || (long_only && (argv[d->optind][2]
      || !strchr (optstring, argv[d->optind][1])))))
  {
    char *nameend;
    const struct option *p;
    const struct option *pfound = NULL;
    int exact = 0;
    int ambig = 0;
    int indfound = -1;
    int option_index;

    for (nameend = d->__nextchar; *nameend && *nameend != '='; nameend++)
/* Do nothing.  */ ;
```

```
    /* Test all long options for either exact match
  or abbreviated matches.  */
    for (p = longopts, option_index = 0; p->name; p++, option_index++)
 if (!strncmp (p->name, d->__nextchar, nameend - d->__nextchar))
  {
    if ((unsigned int) (nameend - d->__nextchar)
  == (unsigned int) strlen (p->name))
      {
  /* Exact match found.  */
  pfound = p;
  indfound = option_index;
  exact = 1;
  break;
      }
    else if (pfound == NULL)
      {
  /* First nonexact match found.  */
  pfound = p;
  indfound = option_index;
      }
    else if (long_only
      || pfound->has_arg != p->has_arg
      || pfound->flag != p->flag
      || pfound->val != p->val)
      /* Second or later nonexact match found.  */
      ambig = 1;
  }

    if (ambig && !exact)
 {
  if (print_errors)
    {
#if defined _LIBC && defined USE_IN_LIBIO
      char *buf;

      if (__asprintf (&buf, _("%s: option '%s' is ambiguous\n"),
        argv[0], argv[d->optind]) >= 0)
  {
    _IO_flockfile (stderr);

    int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
    ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

    __fxprintf (NULL, "%s", buf);

    ((_IO_FILE *) stderr)->_flags2 = old_flags2;
    _IO_funlockfile (stderr);
```

```
   free (buf);
  }
#else
      fprintf (stderr, _("%s: option '%s' is ambiguous\n"),
       argv[0], argv[d->optind]);
#endif
    }
  d->__nextchar += strlen (d->__nextchar);
  d->optind++;
  d->optopt = 0;
  return '?';
 }

    if (pfound != NULL)
 {
  option_index = indfound;
  d->optind++;
  if (*nameend)
    {
     /* Don't test has_arg with >, because some C compilers don't
  allow it to be used on enums.  */
     if (pfound->has_arg)
  d->optarg = nameend + 1;
     else
 {
   if (print_errors)
     {
#if defined _LIBC && defined USE_IN_LIBIO
      char *buf;
      int n;
#endif

      if (argv[d->optind - 1][1] == '-')
  {
    /* --option */
#if defined _LIBC && defined USE_IN_LIBIO
    n = __asprintf (&buf, _("\
%s: option '--%s' doesn't allow an argument\n"),
      argv[0], pfound->name);
#else
    fprintf (stderr, _("\
%s: option '--%s' doesn't allow an argument\n"),
      argv[0], pfound->name);
#endif
  }
       else
  {
    /* +option or -option */
```

```
#if defined _LIBC && defined USE_IN_LIBIO
    n = __asprintf (&buf, _("\
%s: option '%c%s' doesn't allow an argument\n"),
       argv[0], argv[d->optind - 1][0],
       pfound->name);
#else
    fprintf (stderr, _("\
%s: option '%c%s' doesn't allow an argument\n"),
       argv[0], argv[d->optind - 1][0],
       pfound->name);
#endif
  }

#if defined _LIBC && defined USE_IN_LIBIO
       if (n >= 0)
  {
    _IO_flockfile (stderr);

    int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
    ((_IO_FILE *) stderr)->_flags2
      |= _IO_FLAGS2_NOTCANCEL;

    __fxprintf (NULL, "%s", buf);

    ((_IO_FILE *) stderr)->_flags2 = old_flags2;
    _IO_funlockfile (stderr);

    free (buf);
  }
#endif
     }

   d->__nextchar += strlen (d->__nextchar);

   d->optopt = pfound->val;
   return '?';
 }
    }
  else if (pfound->has_arg == 1)
    {
      if (d->optind < argc)
 d->optarg = argv[d->optind++];
      else
 {
   if (print_errors)
     {
#if defined _LIBC && defined USE_IN_LIBIO
       char *buf;
```

```
        if (__asprintf (&buf, _("\
%s: option '%s' requires an argument\n"),
          argv[0], argv[d->optind - 1]) >= 0)
    {
      _IO_flockfile (stderr);

      int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
      ((_IO_FILE *) stderr)->_flags2
        |= _IO_FLAGS2_NOTCANCEL;

      __fxprintf (NULL, "%s", buf);

      ((_IO_FILE *) stderr)->_flags2 = old_flags2;
      _IO_funlockfile (stderr);

      free (buf);
    }
#else
        fprintf (stderr,
          _("%s: option '%s' requires an argument\n"),
          argv[0], argv[d->optind - 1]);
#endif
      }
    d->__nextchar += strlen (d->__nextchar);
    d->optopt = pfound->val;
    return optstring[0] == ':' ? ':' : '?';
  }
    }
  d->__nextchar += strlen (d->__nextchar);
  if (longind != NULL)
    *longind = option_index;
  if (pfound->flag)
    {
      *(pfound->flag) = pfound->val;
      return 0;
    }
  return pfound->val;
 }

    /* Can't find it as a long option.  If this is not getopt_long_only,
  or the option starts with '--' or is not a valid short
  option, then it's an error.
  Otherwise interpret it as a short option.  */
    if (!long_only || argv[d->optind][1] == '-'
  || strchr (optstring, *d->__nextchar) == NULL)
 {
  if (print_errors)
```

```
    {
#if defined _LIBC && defined USE_IN_LIBIO
      char *buf;
      int n;
#endif

      if (argv[d->optind][1] == '-')
  {
   /* --option */
#if defined _LIBC && defined USE_IN_LIBIO
    n = __asprintf (&buf, _("%s: unrecognized option '--%s'\n"),
     argv[0], d->__nextchar);
#else
    fprintf (stderr, _("%s: unrecognized option '--%s'\n"),
     argv[0], d->__nextchar);
#endif
  }
      else
  {
   /* +option or -option */
#if defined _LIBC && defined USE_IN_LIBIO
    n = __asprintf (&buf, _("%s: unrecognized option '%c%s'\n"),
     argv[0], argv[d->optind][0], d->__nextchar);
#else
    fprintf (stderr, _("%s: unrecognized option '%c%s'\n"),
     argv[0], argv[d->optind][0], d->__nextchar);
#endif
  }

#if defined _LIBC && defined USE_IN_LIBIO
      if (n >= 0)
  {
   _IO_flockfile (stderr);

   int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
   ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

   __fxprintf (NULL, "%s", buf);

   ((_IO_FILE *) stderr)->_flags2 = old_flags2;
   _IO_funlockfile (stderr);

   free (buf);
  }
#endif
    }
  d->__nextchar = (char *) "";
  d->optind++;
```

```
  d->optopt = 0;
  return '?';
}
  }

 /* Look at and handle the next short option-character.  */

 {
  char c = *d->__nextchar++;
  char *temp = strchr (optstring, c);

  /* Increment 'optind' when we start to process its last character.  */
  if (*d->__nextchar == '\0')
    ++d->optind;

  if (temp == NULL || c == ':')
    {
 if (print_errors)
  {
#if defined _LIBC && defined USE_IN_LIBIO
      char *buf;
      int n;
#endif

    if (d->__posixly_correct)
      {
  /* 1003.2 specifies the format of this message.  */
#if defined _LIBC && defined USE_IN_LIBIO
  n = __asprintf (&buf, _("%s: illegal option -- %c\n"),
    argv[0], c);
#else
  fprintf (stderr, _("%s: illegal option -- %c\n"), argv[0], c);
#endif
      }
    else
      {
#if defined _LIBC && defined USE_IN_LIBIO
  n = __asprintf (&buf, _("%s: invalid option -- %c\n"),
    argv[0], c);
#else
  fprintf (stderr, _("%s: invalid option -- %c\n"), argv[0], c);
#endif
      }

#if defined _LIBC && defined USE_IN_LIBIO
    if (n >= 0)
      {
  _IO_flockfile (stderr);
```

```
 int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
 ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

 __fxprintf (NULL, "%s", buf);

 ((_IO_FILE *) stderr)->_flags2 = old_flags2;
 _IO_funlockfile (stderr);

 free (buf);
      }
#endif
  }
 d->optopt = c;
 return '?';
    }
  /* Convenience. Treat POSIX -W foo same as long option --foo */
  if (temp[0] == 'W' && temp[1] == ';')
    {
 char *nameend;
 const struct option *p;
 const struct option *pfound = NULL;
 int exact = 0;
 int ambig = 0;
 int indfound = 0;
 int option_index;

 /* This is an option that requires an argument.  */
 if (*d->__nextchar != '\0')
  {
    d->optarg = d->__nextchar;
    /* If we end this ARGV-element by taking the rest as an arg,
       we must advance to the next element now.  */
    d->optind++;
  }
 else if (d->optind == argc)
  {
    if (print_errors)
      {
 /* 1003.2 specifies the format of this message.  */
#if defined _LIBC && defined USE_IN_LIBIO
 char *buf;

 if (__asprintf (&buf,
   _("%s: option requires an argument -- %c\n"),
   argv[0], c) >= 0)
   {
     _IO_flockfile (stderr);
```

```
      int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
      ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

      __fxprintf (NULL, "%s", buf);

      ((_IO_FILE *) stderr)->_flags2 = old_flags2;
      _IO_funlockfile (stderr);

      free (buf);
    }
#else
  fprintf (stderr, _("%s: option requires an argument -- %c\n"),
    argv[0], c);
#endif
       }
     d->optopt = c;
     if (optstring[0] == ':')
       c = ':';
     else
       c = '?';
     return c;
   }
 else
   /* We already incremented 'd->optind' once;
      increment it again when taking next ARGV-elt as argument.  */
   d->optarg = argv[d->optind++];

 /* optarg is now the argument, see if it's in the
    table of longopts.  */

 for (d->__nextchar = nameend = d->optarg; *nameend && *nameend != '=';
      nameend++)
   /* Do nothing.  */ ;

 /* Test all long options for either exact match
    or abbreviated matches.  */
 for (p = longopts, option_index = 0; p->name; p++, option_index++)
   if (!strncmp (p->name, d->__nextchar, nameend - d->__nextchar))
     {
       if ((unsigned int) (nameend - d->__nextchar) == strlen (p->name))
  {
    /* Exact match found.  */
    pfound = p;
    indfound = option_index;
    exact = 1;
    break;
  }
```

```
      else if (pfound == NULL)
  {
   /* First nonexact match found.  */
   pfound = p;
   indfound = option_index;
  }
      else
  /* Second or later nonexact match found.  */
  ambig = 1;
    }
 if (ambig && !exact)
  {
   if (print_errors)
     {
#if defined _LIBC && defined USE_IN_LIBIO
  char *buf;

  if (__asprintf (&buf, _("%s: option '-W %s' is ambiguous\n"),
   argv[0], argv[d->optind]) >= 0)
   {
     _IO_flockfile (stderr);

     int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
     ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

     __fxprintf (NULL, "%s", buf);

     ((_IO_FILE *) stderr)->_flags2 = old_flags2;
     _IO_funlockfile (stderr);

     free (buf);
   }
#else
  fprintf (stderr, _("%s: option '-W %s' is ambiguous\n"),
   argv[0], argv[d->optind]);
#endif
      }
    d->__nextchar += strlen (d->__nextchar);
    d->optind++;
    return '?';
  }
 if (pfound != NULL)
  {
   option_index = indfound;
   if (*nameend)
     {
  /* Don't test has_arg with >, because some C compilers don't
   allow it to be used on enums.  */
```

```
  if (pfound->has_arg)
    d->optarg = nameend + 1;
  else
    {
      if (print_errors)
        {
#if defined _LIBC && defined USE_IN_LIBIO
    char *buf;

    if (__asprintf (&buf, _("\
%s: option '-W %s' doesn't allow an argument\n"),
        argv[0], pfound->name) >= 0)
      {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2
          |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
      }
#else
    fprintf (stderr, _("\
%s: option '-W %s' doesn't allow an argument\n"),
        argv[0], pfound->name);
#endif
        }

      d->__nextchar += strlen (d->__nextchar);
      return '?';
    }
      }
    else if (pfound->has_arg == 1)
      {
  if (d->optind < argc)
    d->optarg = argv[d->optind++];
  else
    {
      if (print_errors)
        {
#if defined _LIBC && defined USE_IN_LIBIO
    char *buf;
```

```
  if (__asprintf (&buf, _("\
%s: option '%s' requires an argument\n"),
      argv[0], argv[d->optind - 1]) >= 0)
      {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2
          |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
      }
#else
    fprintf (stderr,
      _("%s: option '%s' requires an argument\n"),
      argv[0], argv[d->optind - 1]);
#endif
         }
       d->__nextchar += strlen (d->__nextchar);
       return optstring[0] == ':' ? ':' : '?';
     }
        }
      d->__nextchar += strlen (d->__nextchar);
      if (longind != NULL)
        *longind = option_index;
      if (pfound->flag)
        {
   *(pfound->flag) = pfound->val;
   return 0;
        }
      return pfound->val;
    }
    d->__nextchar = NULL;
    return 'W'; /* Let the application handle it.   */
      }
    if (temp[1] == ':')
      {
   if (temp[2] == ':')
    {
      /* This is an option that accepts an argument optionally.  */
      if (*d->__nextchar != '\0')
        {
   d->optarg = d->__nextchar;
```

```
 d->optind++;
      }
    else
      d->optarg = NULL;
    d->__nextchar = NULL;
  }
 else
  {
    /* This is an option that requires an argument.  */
    if (*d->__nextchar != '\0')
      {
 d->optarg = d->__nextchar;
 /* If we end this ARGV-element by taking the rest as an arg,
    we must advance to the next element now.  */
 d->optind++;
      }
    else if (d->optind == argc)
      {
 if (print_errors)
   {
     /* 1003.2 specifies the format of this message.  */
#if defined _LIBC && defined USE_IN_LIBIO
     char *buf;

     if (__asprintf (&buf, _("\
%s: option requires an argument -- %c\n"),
       argv[0], c) >= 0)
       {
  _IO_flockfile (stderr);

  int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
  ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

  __fxprintf (NULL, "%s", buf);

  ((_IO_FILE *) stderr)->_flags2 = old_flags2;
  _IO_funlockfile (stderr);

  free (buf);
       }
#else
     fprintf (stderr,
       _("%s: option requires an argument -- %c\n"),
       argv[0], c);
#endif
   }
  d->optopt = c;
  if (optstring[0] == ':')
```

```
    c = ':';
  else
    c = '?';
       }
     else
       /* We already incremented 'optind' once;
   increment it again when taking next ARGV-elt as argument.  */
       d->optarg = argv[d->optind++];
     d->__nextchar = NULL;
   }
     }
   return c;
 }
}

int
_getopt_internal (int argc, char **argv, const char *optstring,
    const struct option *longopts, int *longind,
    int long_only, int posixly_correct)
{
 int result;

 getopt_data.optind = optind;
 getopt_data.opterr = opterr;

 result = _getopt_internal_r (argc, argv, optstring, longopts, longind,
         long_only, posixly_correct, &getopt_data);

 optind = getopt_data.optind;
 optarg = getopt_data.optarg;
 optopt = getopt_data.optopt;

 return result;
}

/* glibc gets a LSB-compliant getopt.
  Standalone applications get a POSIX-compliant getopt.  */
#if _LIBC
enum { POSIXLY_CORRECT = 0 };
#else
enum { POSIXLY_CORRECT = 1 };
#endif

int
getopt (int argc, char *const *argv, const char *optstring)
{
 return _getopt_internal (argc, (char **) argv, optstring, NULL, NULL, 0,
      POSIXLY_CORRECT);
```

```
}


#ifdef TEST

/* Compile with -DTEST to make an executable for use in testing
  the above definition of 'getopt'.  */

int
main (int argc, char **argv)
{
 int c;
 int digit_optind = 0;

 while (1)
   {
     int this_option_optind = optind ? optind : 1;

     c = getopt (argc, argv, "abc:d:0123456789");
     if (c == -1)
 break;

     switch (c)
 {
 case '0':
 case '1':
 case '2':
 case '3':
 case '4':
 case '5':
 case '6':
 case '7':
 case '8':
 case '9':
   if (digit_optind != 0 && digit_optind != this_option_optind)
     printf ("digits occur in two different argv-elements.\n");
   digit_optind = this_option_optind;
   printf ("option %c\n", c);
   break;

 case 'a':
   printf ("option a\n");
   break;

 case 'b':
   printf ("option b\n");
   break;
```

```
 case 'c':
   printf ("option c with value '%s'\n", optarg);
   break;

 case '?':
   break;

 default:
   printf ("?? getopt returned character code 0%o ??\n", c);
 }
   }

 if (optind < argc)
   {
     printf ("non-option ARGV-elements: ");
     while (optind < argc)
 printf ("%s ", argv[optind++]);
     printf ("\n");
   }

 exit (0);
}

#endif /* TEST */
```

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Version 2, June 1991

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4.195 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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The data format used by the zlib library is described by RFCs (Request for
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(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

4.196 zulu7 1.7 :65

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5.8 commons-lang 2.6

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5.11 hamcrest-core_test 1.1

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contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
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contrib/analyzers/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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The Polish analyzer (contrib/analyzers) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file resides
in contrib/analyzers/stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

Includes lib/servlet-api-2.4.jar from Apache Tomcat
Includes lib/ant-1.7.1.jar and lib/ant-junit-1.7.1.jar from Apache Ant
Includes contrib/queries/lib/jakarta-regexp-1.4.jar from Apache Jakarta Regexp
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- Commons Logging (contrib/benchmark/lib/commons-logging-1.0.4.jar)
- Xerces (contrib/benchmark/lib/xercesImpl-2.9.1-patched-XERCESJ-1257.jar)

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The class org.apache.lucene.SorterTemplate was inspired by CGLIB's class with
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5.24 mina-core 2.0.7

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5.29 org.springframework.beans 3.0.4.RELEASE

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5.30 org.springframework.context 3.0.4.RELEASE

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Window size: x
Viewport size: x

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5.32 org.springframework.expression 3.0.4.RELEASE

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5.33 protobuf-java 2.4.1

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5.34 servlet-api 2.5

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5.35 slf4j 1.5.0

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5.36 slf4j-api 1.5.2

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package org.slf4j;


/**
* <code>ILoggerFactory</code> instances manufacture {@link Logger}
* instances by name.
*
* <p>Most users retrieve {@link Logger} instances through the static
* {@link LoggerFactory#getLogger(String)} method. An instance of of this
```

```
* interface is bound internally with {@link LoggerFactory} class at
* compile time.
*
* @author Ceki G&uuml;lc&uuml;
*/
public interface ILoggerFactory {

 /**
  * Return an appropriate {@link Logger} instance as specified by the
  * <code>name</code> parameter.
  *
  * <p>If the name parameter is equal to {@link Logger#ROOT_LOGGER_NAME}, that is
  * the string value "ROOT" (case insensitive), then the root logger of the
  * underlying logging system is returned.
  *
  * <p>Null-valued name arguments are considered invalid.
  *
  * <p>Certain extremely simple logging systems, e.g. NOP, may always
  * return the same logger instance regardless of the requested name.
  *
  * @param name the name of the Logger to return
  */
 public Logger getLogger(String name);
}
```

5.37 slf4j_Apache 1.5.0

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5.38 syslog4j 0.9.46

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-- activemq-web
==========
== For the behaviour.js library ==
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-- activemq-web
==========
== For the behaviour.js library ==
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--activemq-web-demo
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--activemq-web-console

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========================================================================
== For the MochiKit library                                           ==
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== For the style.css library ==
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/**
* Defines common decoding methods for byte array decoders.
*
* @author Apache Software Foundation
* @version $Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp $
*/
public interface BinaryDecoder extends Decoder {

  /**
   * Decodes a byte array and returns the results as a byte array.
   *
   * @param pArray A byte array which has been encoded with the
   *      appropriate encoder
   *
   * @return a byte array that contains decoded content
   *
   * @throws DecoderException A decoder exception is thrown
   *         if a Decoder encounters a failure condition during
   *         the decode process.
   */
  byte[] decode(byte[] pArray) throws DecoderException;
}
```

The commons-codec team is pleased to announce the Codec 1.3 release!

http://jakarta.apache.org/commons/codec/

The codec package contains simple encoder and decoders for various formats such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding utilities.

Changes in this version include:

New Features:

o BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
o QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.
o BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a

character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
o QCodec: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.
o Soundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.
o RefinedSoundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

Fixed bugs:

o The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
o Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
o Hex converts illegal characters to 255. Issue: 28455.
o Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
o Added missing tags in Javadoc comments.
o General Javadoc improvements.

Changes:

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o The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

Have fun!
-The commons-codec team

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6.12 apache-log4j 1.2.15

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6.18 axis 1.4

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6.28 DBI 1.5.1

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6.33 DynAPi 2.5.6

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6.34 EhCache 1.5

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com/sun/xml/xsom/impl/util/Uri.java
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*/

package org.jdom;

/**
* An XML comment. Methods allow the user to get and set the text of the
* comment.
*
* @version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
* @author  Brett McLaughlin
* @author  Jason Hunter
*/
public class Comment extends Content {

  private static final String CVS_ID =
    "@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 $";

  /** Text of the <code>Comment</code> */
  protected String text;

  /**
   * Default, no-args constructor for implementations to use if needed.
   */
  protected Comment() {}

  /**
   * This creates the comment with the supplied text.
   *
   * @param text <code>String</code> content of comment.
   */
  public Comment(String text) {
     setText(text);
  }



  /**
   * Returns the XPath 1.0 string value of this element, which is the
   * text of this comment.
   *
   * @return the text of this comment
   */
  public String getValue() {
```

```
    return text;
}

/**
 * This returns the textual data within the <code>Comment</code>.
 *
 * @return <code>String</code> - text of comment.
 */
public String getText() {
    return text;
}

/**
 * This will set the value of the <code>Comment</code>.
 *
 * @param text <code>String</code> text for comment.
 * @return <code>Comment</code> - this Comment modified.
 * @throws IllegalDataException if the given text is illegal for a
 *         Comment.
 */
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalDataException(text, "comment", reason);
    }

    this.text = text;
    return this;
}

/**
 * This returns a <code>String</code> representation of the
 * <code>Comment</code>, suitable for debugging. If the XML
 * representation of the <code>Comment</code> is desired,
 * {@link org.jdom.output.XMLOutputter#outputString(Comment)}
 * should be used.
 *
 * @return <code>String</code> - information about the
 *         <code>Attribute</code>
 */
public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("]")
        .toString();
}
```

}

6.57 JDOM 1.11

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6.58 jdom 1.1.3

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6.67 jquery-week-calendar 1.2.2

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*/
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*
* Requires:
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* - jquery 1.3.x
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```

6.68 jsoup 1.7.2

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6.72 logging-log4j 1.2.14

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6.74 mod_jk 1.2.37

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6.77 MultiLineLabel.java 1

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 *
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 *
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 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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6.83 openssl-0.9.8n openssl-0.9.8n

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6.84 p7zip 1

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

6.85 perl 5.8.7

6.85.1 Available under license :

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Ty Coon, President of Vice

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6.86 PNG Encoder 4

6.86.1 Available under license :

com.keypoint.PngEncoder - a Java class to convert Image objects to PNG byte arrays.

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Version 2.1, February 1999

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6.88 regexp 1.1

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6.105 Xalan-Java 2.2.d9

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6.107 xbTreeWidgetStatic.js 1.6

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6.115 xml-apis 2.0.2

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6.116 xmlParserAPIs (Xerces-J) 2.6.2

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6.117 xom 1.0

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