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1.3 Arp 1.3.2

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* the Mach ethernet boot written by Leendert van Doorn.
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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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1.5 azure-uamqp-c 1.0.19

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1.6 Backbone.js 1.1.0

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1.7 base-files 3.0.14 :r73

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Gnomovision version 69, Copyright (C) year name of author
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type 'show w'. This is free software, and you are welcome
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for details.
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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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+Summary: Miscellaneous files for the base system.
+Name: base-files
+Version: 3.0.14
+Release: r73

+License: GPLv2

1.8 base-passwd 3.5.26

1.8.1 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/*
Copyright: Copyright 1999-2002 Wichert Akkerman <wichert@deephackmode.org>
Copyright 2002, 2003, 2004 Colin Watson <cjwatson@debian.org>
License: GPL-2

Files: passwd.master, group.master
License: PD
X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and
Bruce Perens <bruce@pixar.com>.

Files: doc/*
Copyright: Copyright 2001, 2002 Joey Hess
Copyright 2002, 2003, 2004, 2005, 2007 Colin Watson
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1.9 base64.c 1.3

1.9.1 Available under license :

```
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1.10 bash 4.2

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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
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1.11 bind 4.9.4

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if (typeof jQuery === 'undefined') { throw new Error('Bootstrap requires jQuery') }

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.18 Bzip2 1.0.6

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1.22 clock_util.c 1992

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* David L. Mills <mills@udel.edu> (WWVB and Austron GPS clock drivers,
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* pps support)
* Jeffrey Mogul <mogul@pa.dec.com> (ntptrace utility)
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1.23 CMP for OpenSSL 1.0.1h (r778)

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1.25 Coreutils 8.21 :2013-02-14 Pádraig Brady

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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.

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.
^L

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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.
^L
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.
^L
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.
^L
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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^L

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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.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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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
> 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
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> 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
> > > 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.

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

1.27 CRC32 1.222

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1.28 cryptsetup 1.6.2

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1.36 dtc 1.4.0

1.36.1 Available under license :

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
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Theodore Ts'o
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Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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1.38 errno.h 1.14

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1.39 esapi 2.1.0

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1.43 findutils 4.4.2

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1.45 fnmatch.c 1.11

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1.46 fnmatch.h 1.7

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*
* @(#)fnmatch.h 8.1 (Berkeley) 6/2/93
*/
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1.47 forms 1.3.0

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1.48 freetype 2.5.3

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1.54 gExpect N/A

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1.57 gmp 5.1.1 :2013-02-10 Torbjorn Granlund

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1.59 go-afero 9be650865eab0c12963d8753212f4f9c66cdcf12

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1.60 go-binarydist 3035450ff8b987ec4373f65c40767f096b35f2d2

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1.61 go-boltdb e9cf4fae01b5a8ff89d0ec6b32f0d9c9f79aefdd

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1.62 go-cache 7ac151875ffb48b9f3ccce9ea20f020b0c1596c8

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1.63 go-datadog 65671c440e8fa4ccbbc5a5c6c499a3c9a039f84f

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1.64 go-durationlock v1.0

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1.65 go-enumer fbb114e61ff4af3a791efa7a389f34b59801c9b5

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1.67 go-freeport d4adf43b75b9357dc7775f033e807a3411591522

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1.68 go-gin-gonic v1.1.4

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1.69 go-goamz caaaea8b30ee15616494ee68abd5d8ebbbef05cf

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1.70 go-goque 4044bc29b28064db4f08e947c4972d5ca3e0f3c8

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1.74 go-kardianos-osext ae77be60afb1dcacde03767a8c37337fad28ac14

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1.76 go-playground/validator 6f98212623666681e8d451d956f32078f82f5bdf

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1.79 go-spew 04cdfd42973bb9c8589fd6a731800cf222fde1a9

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1.80 go-spf13-cast acbeb36b902d72a7a4c18e8f3241075e7ab763e4

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1.81 go-spf13-cobra 8c6fa02d2225de0f9bdcb7ca912556f68d172d8c

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![cobra logo](https://cloud.githubusercontent.com/assets/173412/10886352/ad566232-814f-11e5-9cd0-aa101788c117.png)

Cobra is both a library for creating powerful modern CLI applications as well as a program to generate applications and command files.

Many of the most widely used Go projects are built using Cobra including:

* [Kubernetes](http://kubernetes.io/)
* [Hugo](http://gohugo.io)
* [rkt](https://github.com/coreos/rkt)
* [etcd](https://github.com/coreos/etcd)
* [Moby (former Docker)](https://github.com/moby/moby)
* [Docker (distribution)](https://github.com/docker/distribution)
* [OpenShift](https://www.openshift.com/)
* [Delve](https://github.com/derekparker/delve)
* [GopherJS](http://www.gopherjs.org/)
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* [Bleve](http://www.blevesearch.com/)
* [ProjectAtomic (enterprise)](http://www.projectatomic.io/)
* [GiantSwarm's swarm](https://github.com/giantswarm/cli)
* [Nanobox](https://github.com/nanobox-io/nanobox)/[Nanopack](https://github.com/nanopack)
* [rclone](http://rclone.org/)

[![Build Status](https://travis-ci.org/spf13/cobra.svg "Travis CI status")](https://travis-ci.org/spf13/cobra)
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![cobra](https://cloud.githubusercontent.com/assets/173412/10911369/84832a8e-8212-11e5-9f82-cc96660a4794.gif)

Overview

Cobra is a library providing a simple interface to create powerful modern CLI
interfaces similar to git & go tools.

Cobra is also an application that will generate your application scaffolding to rapidly
develop a Cobra-based application.

Cobra provides:

* Easy subcommand-based CLIs: `app server`, `app fetch`, etc.
* Fully POSIX-compliant flags (including short & long versions)
* Nested subcommands
* Global, local and cascading flags
* Easy generation of applications & commands with `cobra init appname` & `cobra add cmdname`
* Intelligent suggestions (`app srver`... did you mean `app server`?)
* Automatic help generation for commands and flags
* Automatic detailed help for `app help [command]`
* Automatic help flag recognition of `-h`, `--help`, etc.
* Automatically generated bash autocomplete for your application
* Automatically generated man pages for your application
* Command aliases so you can change things without breaking them
* The flexibility to define your own help, usage, etc.
* Optional tight integration with [viper](http://github.com/spf13/viper) for 12-factor apps

Cobra has an exceptionally clean interface and simple design without needless
constructors or initialization methods.

Applications built with Cobra commands are designed to be as user-friendly as
possible. Flags can be placed before or after the command (as long as a
confusing space isnt provided). Both short and long flags can be used. A
command need not even be fully typed. Help is automatically generated and
available for the application or for a specific command using either the help
command or the `--help` flag.

Concepts

Cobra is built on a structure of commands, arguments & flags.

Commands represent actions, **Args** are things and **Flags** are modifiers for those actions.

The best applications will read like sentences when used. Users will know how
to use the application because they will natively understand how to use it.

The pattern to follow is
`APPNAME VERB NOUN --ADJECTIVE.`
  or
`APPNAME COMMAND ARG --FLAG`

A few good real world examples may better illustrate this point.

In the following example, 'server' is a command, and 'port' is a flag:

  hugo server --port=1313

In this command we are telling Git to clone the url bare.

  git clone URL --bare

Commands

Command is the central point of the application. Each interaction that
the application supports will be contained in a Command. A command can
have children commands and optionally run an action.

In the example above, 'server' is the command.

A Command has the following structure:

```go
type Command struct {
  Use string // The one-line usage message.
  Short string // The short description shown in the 'help' output.
  Long string // The long message shown in the 'help <this-command>' output.
  Run func(cmd *Command, args []string) // Run runs the command.
}
```

Flags

A Flag is a way to modify the behavior of a command. Cobra supports
fully POSIX-compliant flags as well as the Go [flag package](https://golang.org/pkg/flag/).
A Cobra command can define flags that persist through to children commands
and flags that are only available to that command.

In the example above, 'port' is the flag.

Flag functionality is provided by the [pflag
library](https://github.com/spf13/pflag), a fork of the flag standard library
which maintains the same interface while adding POSIX compliance.

Usage

Cobra works by creating a set of commands and then organizing them into a tree.
The tree defines the structure of the application.

Once each command is defined with its corresponding flags, then the
tree is assigned to the commander which is finally executed.

Installing
Using Cobra is easy. First, use `go get` to install the latest version
of the library. This command will install the `cobra` generator executable
along with the library and its dependencies:

```
go get -u github.com/spf13/cobra/cobra
```

Next, include Cobra in your application:

```go
import "github.com/spf13/cobra"
```

Getting Started

While you are welcome to provide your own organization, typically a Cobra-based
application will follow the following organizational structure:

```
 &#9662; appName/
   &#9662; cmd/
       add.go
       your.go
       commands.go
       here.go
     main.go
```

In a Cobra app, typically the main.go file is very bare. It serves one purpose: initializing Cobra.

```go
package main

import (
 "fmt"
 "os"

 "{pathToYourApp}/cmd"
)

func main() {
 if err := cmd.RootCmd.Execute(); err != nil {
  fmt.Println(err)
  os.Exit(1)
 }
}
```

Using the Cobra Generator

Cobra provides its own program that will create your application and add any
commands you want. It's the easiest way to incorporate Cobra into your application.

In order to use the cobra command, compile it using the following command:

```
go get github.com/spf13/cobra/cobra
```

This will create the cobra executable under your `$GOPATH/bin` directory.

cobra init

The `cobra init [yourApp]` command will create your initial application code for you. It is a very powerful application that will populate your program with the right structure so you can immediately enjoy all the benefits of Cobra. It will also automatically apply the license you specify to your application.

Cobra init is pretty smart. You can provide it a full path, or simply a path similar to what is expected in the import.

```
cobra init github.com/spf13/newAppName
```

cobra add

Once an application is initialized Cobra can create additional commands for you. Let's say you created an app and you wanted the following commands for it:

* app serve
* app config
* app config create

In your project directory (where your main.go file is) you would run the following:

```
cobra add serve
cobra add config
cobra add create -p 'configCmd'
```

*Note: Use camelCase (not snake_case/snake-case) for command names. Otherwise, you will encounter errors.
For example, `cobra add add-user` is incorrect, but `cobra add addUser` is valid.*

Once you have run these three commands you would have an app structure similar to the following:

```
 &#9662; app/
   &#9662; cmd/
       serve.go
       config.go
       create.go
```

```
    main.go
```

At this point you can run `go run main.go` and it would run your app. `go run main.go serve`, `go run main.go config`, `go run main.go config create` along with `go run main.go help serve`, etc. would all work.

Obviously you haven't added your own code to these yet. The commands are ready for you to give them their tasks. Have fun!

Configuring the cobra generator

The Cobra generator will be easier to use if you provide a simple configuration file which will help you eliminate providing a bunch of repeated information in flags over and over.

An example ~/.cobra.yaml file:

```yaml
author: Steve Francia <spf@spf13.com>
license: MIT
```

You can specify no license by setting `license` to `none` or you can specify a custom license:

```yaml
license:
 header: This file is part of {{ .appName }}.
 text: |
   {{ .copyright }}

   This is my license. There are many like it, but this one is mine.
   My license is my best friend. It is my life. I must master it as I must
   master my life.
```

You can also use built-in licenses. For example, **GPLv2**, **GPLv3**, **LGPL**, **AGPL**, **MIT**, **2-Clause BSD** or **3-Clause BSD**.

Manually implementing Cobra

To manually implement Cobra you need to create a bare main.go file and a RootCmd file. You will optionally provide additional commands as you see fit.

Create the root command

The root command represents your binary itself.

Manually create rootCmd

Cobra doesn't require any special constructors. Simply create your commands.

Ideally you place this in app/cmd/root.go:

```go
var RootCmd = &cobra.Command{
 Use:   "hugo",
 Short: "Hugo is a very fast static site generator",
 Long: `A Fast and Flexible Static Site Generator built with
            love by spf13 and friends in Go.
            Complete documentation is available at http://hugo.spf13.com`,
 Run: func(cmd *cobra.Command, args []string) {
  // Do Stuff Here
 },
}
```

You will additionally define flags and handle configuration in your init() function.

For example cmd/root.go:

```go
import (
 "fmt"
 "os"

 homedir "github.com/mitchellh/go-homedir"
 "github.com/spf13/cobra"
 "github.com/spf13/viper"
)

func init() {
 cobra.OnInitialize(initConfig)
 RootCmd.PersistentFlags().StringVar(&cfgFile, "config", "", "config file (default is $HOME/.cobra.yaml)")
 RootCmd.PersistentFlags().StringVarP(&projectBase, "projectbase", "b", "", "base project directory eg.
github.com/spf13/")
 RootCmd.PersistentFlags().StringP("author", "a", "YOUR NAME", "Author name for copyright attribution")
 RootCmd.PersistentFlags().StringVarP(&userLicense, "license", "l", "", "Name of license for the project (can
provide `licensetext` in config)")
 RootCmd.PersistentFlags().Bool("viper", true, "Use Viper for configuration")
 viper.BindPFlag("author", RootCmd.PersistentFlags().Lookup("author"))
 viper.BindPFlag("projectbase", RootCmd.PersistentFlags().Lookup("projectbase"))
 viper.BindPFlag("useViper", RootCmd.PersistentFlags().Lookup("viper"))
 viper.SetDefault("author", "NAME HERE <EMAIL ADDRESS>")
 viper.SetDefault("license", "apache")
```

```
}

func Execute() {
 RootCmd.Execute()
}

func initConfig() {
 // Don't forget to read config either from cfgFile or from home directory!
 if cfgFile != "" {
  // Use config file from the flag.
  viper.SetConfigFile(cfgFile)
 } else {
  // Find home directory.
  home, err := homedir.Dir()
  if err != nil {
   fmt.Println(err)
   os.Exit(1)
  }

  // Search config in home directory with name ".cobra" (without extension).
  viper.AddConfigPath(home)
  viper.SetConfigName(".cobra")
 }

 if err := viper.ReadInConfig(); err != nil {
  fmt.Println("Can't read config:", err)
  os.Exit(1)
 }
}
```

Create your main.go

With the root command you need to have your main function execute it.
Execute should be run on the root for clarity, though it can be called on any command.

In a Cobra app, typically the main.go file is very bare. It serves, one purpose, to initialize Cobra.

```go
package main

import (
 "fmt"
 "os"

 "{pathToYourApp}/cmd"
)
```

```
func main() {
 if err := cmd.RootCmd.Execute(); err != nil {
  fmt.Println(err)
  os.Exit(1)
 }
}
```

Create additional commands

Additional commands can be defined and typically are each given their own file inside of the cmd/ directory.

If you wanted to create a version command you would create cmd/version.go and populate it with the following:

```go
package cmd

import (
 "github.com/spf13/cobra"
 "fmt"
)

func init() {
 RootCmd.AddCommand(versionCmd)
}

var versionCmd = &cobra.Command{
 Use:   "version",
 Short: "Print the version number of Hugo",
 Long:  `All software has versions. This is Hugo's`,
 Run: func(cmd *cobra.Command, args []string) {
  fmt.Println("Hugo Static Site Generator v0.9 -- HEAD")
 },
}
```

Attach command to its parent

If you notice in the above example we attach the command to its parent. In this case the parent is the rootCmd. In this example we are attaching it to the root, but commands can be attached at any level.

```go
RootCmd.AddCommand(versionCmd)
```

Remove a command from its parent

Removing a command is not a common action in simple programs, but it allows 3rd parties to customize an existing command tree.

In this example, we remove the existing `VersionCmd` command of an existing root command, and we replace it with our own version:

```go
mainlib.RootCmd.RemoveCommand(mainlib.VersionCmd)
mainlib.RootCmd.AddCommand(versionCmd)
```

Working with Flags

Flags provide modifiers to control how the action command operates.

Assign flags to a command

Since the flags are defined and used in different locations, we need to define a variable outside with the correct scope to assign the flag to work with.

```go
var Verbose bool
var Source string
```

There are two different approaches to assign a flag.

Persistent Flags

A flag can be 'persistent' meaning that this flag will be available to the command it's assigned to as well as every command under that command. For global flags, assign a flag as a persistent flag on the root.

```go
RootCmd.PersistentFlags().BoolVarP(&Verbose, "verbose", "v", false, "verbose output")
```

Local Flags

A flag can also be assigned locally which will only apply to that specific command.

```go
RootCmd.Flags().StringVarP(&Source, "source", "s", "", "Source directory to read from")
```

Bind Flags with Config

You can also bind your flags with [viper](https://github.com/spf13/viper):
```go
var author string

func init() {
 RootCmd.PersistentFlags().StringVar(&author, "author", "YOUR NAME", "Author name for copyright attribution")
 viper.BindPFlag("author", RootCmd.PersistentFlags().Lookup("author"))
}
```

In this example the persistent flag `author` is bound with `viper`.
Note, that the variable `author` will not be set to the value from config,
when the `--author` flag is not provided by user.

More in [viper documentation](https://github.com/spf13/viper#working-with-flags).

Example

In the example below, we have defined three commands. Two are at the top level
and one (cmdTimes) is a child of one of the top commands. In this case the root
is not executable meaning that a subcommand is required. This is accomplished
by not providing a 'Run' for the 'rootCmd'.

We have only defined one flag for a single command.

More documentation about flags is available at https://github.com/spf13/pflag

```go
package main

import (
 "fmt"
 "strings"

 "github.com/spf13/cobra"
)

func main() {

 var echoTimes int

 var cmdPrint = &cobra.Command{
  Use:   "print [string to print]",
  Short: "Print anything to the screen",
  Long: `print is for printing anything back to the screen.
```

```
        For many years people have printed back to the screen.
        `,
 Run: func(cmd *cobra.Command, args []string) {
  fmt.Println("Print: " + strings.Join(args, " "))
 },
}

var cmdEcho = &cobra.Command{
 Use:   "echo [string to echo]",
 Short: "Echo anything to the screen",
 Long: `echo is for echoing anything back.
        Echo works a lot like print, except it has a child command.
        `,
 Run: func(cmd *cobra.Command, args []string) {
  fmt.Println("Print: " + strings.Join(args, " "))
 },
}

var cmdTimes = &cobra.Command{
 Use:   "times [# times] [string to echo]",
 Short: "Echo anything to the screen more times",
 Long: `echo things multiple times back to the user by providing
        a count and a string.`,
 Run: func(cmd *cobra.Command, args []string) {
  for i := 0; i < echoTimes; i++ {
   fmt.Println("Echo: " + strings.Join(args, " "))
  }
 },
}

cmdTimes.Flags().IntVarP(&echoTimes, "times", "t", 1, "times to echo the input")

var rootCmd = &cobra.Command{Use: "app"}
rootCmd.AddCommand(cmdPrint, cmdEcho)
cmdEcho.AddCommand(cmdTimes)
rootCmd.Execute()
}
```

For a more complete example of a larger application, please checkout [Hugo](http://gohugo.io/).

The Help Command

Cobra automatically adds a help command to your application when you have subcommands.
This will be called when a user runs 'app help'. Additionally, help will also
support all other commands as input. Say, for instance, you have a command called
'create' without any additional configuration; Cobra will work when 'app help
create' is called. Every command will automatically have the '--help' flag added.

Example

The following output is automatically generated by Cobra. Nothing beyond the command and flag definitions are needed.

```
> hugo help

hugo is the main command, used to build your Hugo site.

Hugo is a Fast and Flexible Static Site Generator
built with love by spf13 and friends in Go.

Complete documentation is available at http://gohugo.io/.

Usage:
  hugo [flags]
  hugo [command]

Available Commands:
  server        Hugo runs its own webserver to render the files
  version       Print the version number of Hugo
  config        Print the site configuration
  check         Check content in the source directory
  benchmark     Benchmark hugo by building a site a number of times.
  convert       Convert your content to different formats
  new           Create new content for your site
  list          Listing out various types of content
  undraft       Undraft changes the content's draft status from 'True' to 'False'
  genautocomplete Generate shell autocompletion script for Hugo
  gendoc        Generate Markdown documentation for the Hugo CLI.
  genman        Generate man page for Hugo
  import        Import your site from others.

Flags:
  -b, --baseURL="": hostname (and path) to the root, e.g. http://spf13.com/
  -D, --buildDrafts[=false]: include content marked as draft
  -F, --buildFuture[=false]: include content with publishdate in the future
      --cacheDir="": filesystem path to cache directory. Defaults: $TMPDIR/hugo_cache/
      --canonifyURLs[=false]: if true, all relative URLs will be canonicalized using baseURL
      --config="": config file (default is path/config.yaml|json|toml)
  -d, --destination="": filesystem path to write files to
      --disableRSS[=false]: Do not build RSS files
      --disableSitemap[=false]: Do not build Sitemap file
      --editor="": edit new content with this editor, if provided
      --ignoreCache[=false]: Ignores the cache directory for reading but still writes to it
      --log[=false]: Enable Logging
      --logFile="": Log File path (if set, logging enabled automatically)
```

```
      --noTimes[=false]: Don't sync modification time of files
      --pluralizeListTitles[=true]: Pluralize titles in lists using inflect
      --preserveTaxonomyNames[=false]: Preserve taxonomy names as written ("Gérard Depardieu" vs "gerard-depardieu")
  -s, --source="": filesystem path to read files relative from
      --stepAnalysis[=false]: display memory and timing of different steps of the program
  -t, --theme="": theme to use (located in /themes/THEMENAME/)
      --uglyURLs[=false]: if true, use /filename.html instead of /filename/
  -v, --verbose[=false]: verbose output
      --verboseLog[=false]: verbose logging
  -w, --watch[=false]: watch filesystem for changes and recreate as needed

 Use "hugo [command] --help" for more information about a command.
```

Help is just a command like any other. There is no special logic or behavior
around it. In fact, you can provide your own if you want.

Defining your own help

You can provide your own Help command or your own template for the default command to use.

The default help command is

```go
func (c *Command) initHelp() {
 if c.helpCommand == nil {
  c.helpCommand = &Command{
   Use:   "help [command]",
   Short: "Help about any command",
   Long: `Help provides help for any command in the application.
       Simply type ` + c.Name() + ` help [path to command] for full details.`,
   Run: c.HelpFunc(),
  }
 }
 c.AddCommand(c.helpCommand)
}
```

You can provide your own command, function or template through the following methods:

```go
command.SetHelpCommand(cmd *Command)

command.SetHelpFunc(f func(*Command, []string))

command.SetHelpTemplate(s string)
```

The latter two will also apply to any children commands.

Usage

When the user provides an invalid flag or invalid command, Cobra responds by
showing the user the 'usage'.

Example
You may recognize this from the help above. That's because the default help
embeds the usage as part of its output.

```
  Usage:
    hugo [flags]
    hugo [command]

  Available Commands:
    server        Hugo runs its own webserver to render the files
    version       Print the version number of Hugo
    config        Print the site configuration
    check         Check content in the source directory
    benchmark     Benchmark hugo by building a site a number of times.
    convert       Convert your content to different formats
    new           Create new content for your site
    list          Listing out various types of content
    undraft       Undraft changes the content's draft status from 'True' to 'False'
    genautocomplete Generate shell autocompletion script for Hugo
    gendoc        Generate Markdown documentation for the Hugo CLI.
    genman        Generate man page for Hugo
    import        Import your site from others.

  Flags:
    -b, --baseURL="": hostname (and path) to the root, e.g. http://spf13.com/
    -D, --buildDrafts[=false]: include content marked as draft
    -F, --buildFuture[=false]: include content with publishdate in the future
        --cacheDir="": filesystem path to cache directory. Defaults: $TMPDIR/hugo_cache/
        --canonifyURLs[=false]: if true, all relative URLs will be canonicalized using baseURL
        --config="": config file (default is path/config.yaml|json|toml)
    -d, --destination="": filesystem path to write files to
        --disableRSS[=false]: Do not build RSS files
        --disableSitemap[=false]: Do not build Sitemap file
        --editor="": edit new content with this editor, if provided
        --ignoreCache[=false]: Ignores the cache directory for reading but still writes to it
        --log[=false]: Enable Logging
        --logFile="": Log File path (if set, logging enabled automatically)
        --noTimes[=false]: Don't sync modification time of files
        --pluralizeListTitles[=true]: Pluralize titles in lists using inflect
        --preserveTaxonomyNames[=false]: Preserve taxonomy names as written ("Gérard Depardieu" vs "gerard-
```

depardieu")
    -s, --source="": filesystem path to read files relative from
        --stepAnalysis[=false]: display memory and timing of different steps of the program
    -t, --theme="": theme to use (located in /themes/THEMENAME/)
        --uglyURLs[=false]: if true, use /filename.html instead of /filename/
    -v, --verbose[=false]: verbose output
        --verboseLog[=false]: verbose logging
    -w, --watch[=false]: watch filesystem for changes and recreate as needed

Defining your own usage
You can provide your own usage function or template for Cobra to use.

The default usage function is:

```go
return func(c *Command) error {
 err := tmpl(c.Out(), c.UsageTemplate(), c)
 return err
}
```

Like help, the function and template are overridable through public methods:

```go
command.SetUsageFunc(f func(*Command) error)

command.SetUsageTemplate(s string)
```

PreRun or PostRun Hooks

It is possible to run functions before or after the main `Run` function of your command. The `PersistentPreRun` and `PreRun` functions will be executed before `Run`. `PersistentPostRun` and `PostRun` will be executed after `Run`. The `Persistent*Run` functions will be inherited by children if they do not declare their own. These functions are run in the following order:

- `PersistentPreRun`
- `PreRun`
- `Run`
- `PostRun`
- `PersistentPostRun`

An example of two commands which use all of these features is below. When the subcommand is executed, it will run the root command's `PersistentPreRun` but not the root command's `PersistentPostRun`:

```go
package main
```

```
import (
 "fmt"

 "github.com/spf13/cobra"
)

func main() {

 var rootCmd = &cobra.Command{
  Use:   "root [sub]",
  Short: "My root command",
  PersistentPreRun: func(cmd *cobra.Command, args []string) {
   fmt.Printf("Inside rootCmd PersistentPreRun with args: %v\n", args)
  },
  PreRun: func(cmd *cobra.Command, args []string) {
   fmt.Printf("Inside rootCmd PreRun with args: %v\n", args)
  },
  Run: func(cmd *cobra.Command, args []string) {
   fmt.Printf("Inside rootCmd Run with args: %v\n", args)
  },
  PostRun: func(cmd *cobra.Command, args []string) {
   fmt.Printf("Inside rootCmd PostRun with args: %v\n", args)
  },
  PersistentPostRun: func(cmd *cobra.Command, args []string) {
   fmt.Printf("Inside rootCmd PersistentPostRun with args: %v\n", args)
  },
 }

 var subCmd = &cobra.Command{
  Use:   "sub [no options!]",
  Short: "My subcommand",
  PreRun: func(cmd *cobra.Command, args []string) {
   fmt.Printf("Inside subCmd PreRun with args: %v\n", args)
  },
  Run: func(cmd *cobra.Command, args []string) {
   fmt.Printf("Inside subCmd Run with args: %v\n", args)
  },
  PostRun: func(cmd *cobra.Command, args []string) {
   fmt.Printf("Inside subCmd PostRun with args: %v\n", args)
  },
  PersistentPostRun: func(cmd *cobra.Command, args []string) {
   fmt.Printf("Inside subCmd PersistentPostRun with args: %v\n", args)
  },
 }

 rootCmd.AddCommand(subCmd)

 rootCmd.SetArgs([]string{""})
```

```
 _ = rootCmd.Execute()
 fmt.Print("\n")
 rootCmd.SetArgs([]string{"sub", "arg1", "arg2"})
 _ = rootCmd.Execute()
}
```

Alternative Error Handling

Cobra also has functions where the return signature is an error. This allows for errors to bubble up to the top, providing a way to handle the errors in one location. The current list of functions that return an error is:

* PersistentPreRunE
* PreRunE
* RunE
* PostRunE
* PersistentPostRunE

If you would like to silence the default `error` and `usage` output in favor of your own, you can set `SilenceUsage` and `SilenceErrors` to `true` on the command. A child command respects these flags if they are set on the parent command.

Example Usage using RunE:

```go
package main

import (
 "errors"
 "log"

 "github.com/spf13/cobra"
)

func main() {
 var rootCmd = &cobra.Command{
  Use:   "hugo",
  Short: "Hugo is a very fast static site generator",
  Long: `A Fast and Flexible Static Site Generator built with
             love by spf13 and friends in Go.
             Complete documentation is available at http://hugo.spf13.com`,
  RunE: func(cmd *cobra.Command, args []string) error {
   // Do Stuff Here
   return errors.New("some random error")
  },
 }
```

```
 if err := rootCmd.Execute(); err != nil {
  log.Fatal(err)
 }
}
```

Suggestions when "unknown command" happens

Cobra will print automatic suggestions when "unknown command" errors happen. This allows Cobra to behave similarly to the `git` command when a typo happens. For example:

```
$ hugo srever
Error: unknown command "srever" for "hugo"

Did you mean this?
      server

Run 'hugo --help' for usage.
```

Suggestions are automatic based on every subcommand registered and use an implementation of [Levenshtein distance](http://en.wikipedia.org/wiki/Levenshtein_distance). Every registered command that matches a minimum distance of 2 (ignoring case) will be displayed as a suggestion.

If you need to disable suggestions or tweak the string distance in your command, use:

```go
command.DisableSuggestions = true
```

or

```go
command.SuggestionsMinimumDistance = 1
```

You can also explicitly set names for which a given command will be suggested using the `SuggestFor` attribute. This allows suggestions for strings that are not close in terms of string distance, but makes sense in your set of commands and for some which you don't want aliases. Example:

```
$ kubectl remove
Error: unknown command "remove" for "kubectl"

Did you mean this?
      delete
```

Run 'kubectl help' for usage.
```

## Generating Markdown-formatted documentation for your command

Cobra can generate a Markdown-formatted document based on the subcommands, flags, etc. A simple example of how to do this for your command can be found in [Markdown Docs](doc/md_docs.md).

## Generating man pages for your command

Cobra can generate a man page based on the subcommands, flags, etc. A simple example of how to do this for your command can be found in [Man Docs](doc/man_docs.md).

## Generating bash completions for your command

Cobra can generate a bash-completion file. If you add more information to your command, these completions can be amazingly powerful and flexible.  Read more about it in [Bash Completions](bash_completions.md).

## Debugging

Cobra provides a DebugFlags method on a command which, when called, will print
out everything Cobra knows about the flags for each command.

### Example

```go
command.DebugFlags()
```

Extensions

Libraries for extending Cobra:

* [cmdns](https://github.com/gosuri/cmdns): Enables name spacing a command's immediate children. It provides an alternative way to structure subcommands, similar to `heroku apps:create` and `ovrclk clusters:launch`.

Contributing

1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (`git commit -am 'Add some feature'`)
4. Push to the branch (`git push origin my-new-feature`)
5. Create new Pull Request

Contributors

Names in no particular order:
```

* [spf13](https://github.com/spf13),
[eparis](https://github.com/eparis),
[bep](https://github.com/bep), and many more!

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1.82 go-spf13-jwalterweatherman 0efa5202c04663c757d84f90f5219c1250baf94f

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1.83 go-spf13-pflag e57e3eeb33f795204c1ca35f56c44f83227c6e66

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1.84 go-spf13-viper c1de95864d73a5465492829d7cb2dd422b19ac96

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1.85 go-stomp/stomp 364e36fe21291dd5aec3cba10ea15b0e654d9b40

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1.86 go-stoppableListener 827d760f0663fd2207d115e22dd1f55f1842467e

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1.87 go-stretchr-objx cbeaeb16a013161a98496fad62933b1d21786672

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1.88 go-syndtr-goleveldb 8c81ea47d4c41a385645e133e15510fc6a2a74b4

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1.89 go-testify f6abca593680b2315d2075e0f5e2a9751e3f431a

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1.90 go-toml 69d355db5304c0f7f809a2edc054553e7142f016

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1.91 go-udp-testing 06eb4f886d9f8242b0c176cf0d3ce5ec2cedda05

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1.92 go-uuid 35bc42037350f0078e3c974c6ea690f1926603ab

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1.93 go-yaml cd8b52f8269e0feb286dfeef29f8fe4d5b397e0b

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1.95 golang 1.6.1

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1.96 golang 1.7.3

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# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.

# Please keep the list sorted.

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1.97 golang-github-gorilla-mux 5a8a0400500543e28b2886a8c52d21a435815411

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1.100 google-flatbuffers 0e85eeef2c6ed3eb9ec201aaea6caa62612a8522

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1.106 Hibernate Validator 5.0.1 Final

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Brett McLaughlin <brett_AT_jdom_DOT_org>. For more information
on the JDOM Project, please see <http://www.jdom.org/>.

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```

1.119 jQuery 2.1.0

1.119.1 Available under license :

```
/*!
* jQuery JavaScript Library v2.1.0
* http://jquery.com/
*
* Includes Sizzle.js
* http://sizzlejs.com/
*
* Copyright 2005, 2014 jQuery Foundation, Inc. and other contributors
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* http://jquery.org/license
*
* Date: 2014-01-23T21:10Z
*/
```

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1.120 kbd 1.15.2

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 setleds.c setmetamode.c setvesablank.c showconsolefont.c
 spawn_console.c spawn_login.c
 chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1
 getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8

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option any later version - except possibly for the restrictions
mentioned in the directory consolefonts.
#
# PC Screen (console) Fonts - psf1 header
#
0      leshort        0x0436         psf screen font data
>2     byte           0              256 characters, no index
>2     byte           1              512 characters, no index
>2 byte  2  256 characters, Unicode index
>2 byte  3  512 characters, Unicode index
>2 byte  4  256 characters, Unicode level 2 index
>2 byte  5  512 characters, Unicode level 2 index
>3 byte  x  8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0      lelong  0x864ab572 psf2 screen font data
>12 lelong&1 1  with Unicode index
>16 lelong  x  \b, %d glyphs
>28 lelong  x  \b, %dx
>24 lelong  x  \b%d
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1.121 keymaps 1.0

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1.124 krb5 1.13.2

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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c

lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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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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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
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
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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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 the following new or changed files:

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
slave/kproplog.c

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1.127 libevent 2.0.21 :(18 Nov 2012)

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1.133 libunwind 1.0.1

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1.134 libusb 0.1.12 :ASA

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Version 2.1, February 1999

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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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1.139 Log4j 1.2.16

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1.143 lvm2 2.02.95 :10.el6

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1.147 memchr.c 1.6

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1.148 mingetty 1.08

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1.149 module-init-tools 3.10 :ASA

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1.150 ncurses 5.9

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1.151 net-snmp 5.7.2

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1.153 netbase 5.1

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1.154 netfs 6.0

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1.158 NTP 3

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1.159 numactl 2.0.8 :rc4

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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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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

1.160 openldap 2.4.39

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1.166 Packet allocation and deallocation routines 1.3.2

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1.167 Parson May 8, 2017 e410fc7

1.168 pci.ids 2009.10.22 :ASA

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1.170 Perl 5.14.3

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1.171 pixman 0.30.2

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ppp-2.1.2b/386bsd/new/slcompress.c
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// Sanjay Ghemawat, Jeff Dean, and others.

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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
2.2	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
2.7	2.6	2010	PSF	yes

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1.181 Qemu-KVM 0.12.5

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```

1.183 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 $
*/
```

1.184 queue.h 1.18

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```
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1.185 rand.c 1.6

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1.186 readline 6.2

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1.187 regex book library

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1.188 require.js 2.1.6

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1.189 restlet-jse 2.2.0

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1.190 Retroweaver 2.0.3

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1.192 sed 4.2.2

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1.203 Socks.py 1.5.6

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1.204 spf13/cobra 9d9ce1213e32036f555185d5a7df854d6f801ef8

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1.206 spidermonkey 1.7.0

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1.207 stat.h 1.20

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* @(#)stat.h 8.12 (Berkeley) 6/16/95
* $FreeBSD: src/sys/sys/stat.h,v 1.20 1999/12/29 04:24:47 peter Exp $
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1.208 strcasecmp.c 1.4

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1.209 strcat_end strcat_end.c 8.1 (Berkeley) 6/4/93

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1.210 strcspn.c 1.5

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1.211 strlcat.c 1.2

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1.212 strlcpy.c 1.4

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1.213 strnstr UNKNOWN

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1.215 strspn.c 1.5

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1.217 strtod.c 1.50

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```

1.221 strtoul.c 1.10

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1.222 struct.h 1.1.1.2

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*
* @(#)struct.h 8.1 (Berkeley) 6/2/93
*/

1.223 Sysvinit 2.88dsf

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The of the start-stop-daemon

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* 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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1.224 tar 1.26

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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
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copy the object code is a network server, the Corresponding Source
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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.

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1.226 time 1.7

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1.229 tunctl 1.5

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1.231 udev 182

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1.233 underscore.js 1.4.4

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```
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* jQuery JavaScript Library v1.7.2
* http://jquery.com/
*
```

```
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*
* Includes Sizzle.js
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*
* Date: Wed Mar 21 12:46:34 2012 -0700
*/

// 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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```

1.234 unzip 5.52 :0

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Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

- -

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the acompaning file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompresseion core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.
The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.
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The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
 * MoreFiles
 *
 * A collection of File Manager and related routines
 *
 * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
 * with significant code contributions by Nitin Ganatra
 * (Apple Macintosh Developer Technical Support Emeritus)
 * Copyright  1992-1998 Apple Computer, Inc.
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 *
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```

```
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```

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```
 *  MacBinaryIII.h
 *
 *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
 *
 *  Basic encoding and decoding of Macintosh files to the
 *  MacBinary III spec.
 * ---------------------------------------------------------------------
 * This source is copyrighted by Christopher Evans (cevans@poppybank.com)
 * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
 * homepage of Leonard Rosenthol  leonardr@netcom.com)
```

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```
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 *
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```

Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-

May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code.
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten
and by default no longer contains any of Mr. Smith's code, Info-ZIP
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tions as useful as we have his.

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```

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```
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```

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.235 update-rc.d 0.7

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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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1.238 waagent.py 2.1.6

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1.241 xmlsec1 1.2.20

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xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries
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xmlsec-nss library

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http://www.aleksey.com/pipermail/xmlsec/2003/005488.html
http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

* Cordys R&D BV
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* Cryptocom LTD
http://www.aleksey.com/pipermail/xmlsec/2006/007410.html

1.242 zeromq 4.0.4

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1.245 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
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.246 Zlib 1.2.3

1.246.1 Available under license :

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.2, October 3rd, 2004

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*/

2.1 amqp-client 3.6.6

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2.2 antlr4 4.5.3

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2.3 asap 2.0.5

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2.4 attr-accept 1.1.0

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2.5 babel-runtime 6.20.0

2.6 bcprov-jdk15on 1.54

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2.7 boon 0.33

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2.8 bootstrap 4.0.0-alpha.5

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2.9 classnames 2.2.5

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2.10 commons-beanutils 1.9.2

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2.11 commons-cli 1.3.1

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2.12 commons-codec 1.6

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2.13 commons-collections 3.2.2

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2.24 core-js 2.4.1

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2.25 deep-equal 1.0.1

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2.26 dom-helpers 2.4.0

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2.27 element-resize-event 2.0.7

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2.28 encoding 0.1.12

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2.29 es6-promise 4.0.5

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2.30 fbjs 0.8.8

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2.31 file-saver 1.3.3

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[1]: http://eligrey.com

2.32 filesize 3.3.0

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2.33 fixed-data-table 0.6.3

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2.34 fluent-hc 4.3.5

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2.35 gson 2.2.4

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2.39 history 3.2.1

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2.41 hoist-non-react-statics 1.2.0

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2.48 intl 1.2.5

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2.60 jackson-annotations 2.4.0

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2.75 jedis 2.9.0

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2.78 jquery 3.1.1

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2.79 js-tokens 3.0.0

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2.80 keycode 2.1.8

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2.84 log4j-core 2.5

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2.85 logback-classic 1.0.13

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2.98 query-string 4.3.1

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2.99 raf 3.3.0

2.100 react 15.4.1

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2.102 react-dimensions 1.1.1

2.103 react-dom 15.4.1

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2.104 react-dropzone 3.7.3

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2.105 react-flexr 2.1.2

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2.106 react-input-autosize 1.1.0

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2.107 react-intl 2.1.5

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2.108 react-lazy-cache 3.0.1

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2.109 react-notification 6.5.2

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2.110 react-overflow-tooltip 2.0.0

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2.111 react-overlays 0.6.10

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2.112 react-prop-types 0.4.0

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2.113 react-rating 0.6.3

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2.114 react-redux 4.4.6

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2.115 react-router 3.0.0

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2.116 react-router-redux 4.0.7

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2.117 react-select 1.0.0-rc.2

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2.119 redux-form 5.2.5

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2.120 redux-thunk 2.1.0

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2.121 regenerator-runtime 0.10.1

2.122 reselect 2.5.4

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2.124 Restlet Extension Jackson 2.3.3

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2.125 sanitize-filename 1.6.1

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2.126 Saxon-HE 9.5.1-5

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2.127 scroll-into-view 1.7.1

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2.128 setimmediate 1.0.5

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2.129 slf4j-api-1.7.5.jar 1.7.5

2.130 SnakeYAML 1.13

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2.135 stix 1.2.0.2

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2.137 symbol-observable 1.0.4

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2.138 taxii 1.1.0.1

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2.139 tether 1.4.0

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2.140 topo 2.0.2

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2.142 ua-parser-js 0.7.12

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2.143 uncontrollable 4.0.3

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2.144 url-regex 4.0.0

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2.145 utf8-byte-length 1.0.4

2.146 uuid 3.0.1

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2.147 warning 3.0.0

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2.148 whatwg-fetch 2.0.1

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*/
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Written by: Philip Hazel
Email local part: ph10
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3.4 xz 5.0.3

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==========

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4.1 acpid 2.0.25

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4.2 aes 16-04-07

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Issue 16/04/2007

4.3 Algorithm-Diff 1.1902

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4.4 AppConfig 1.6600000000000001

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4.7 Archive-Tar 1.54

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b) Use a suitable shared library mechanism for linking with the

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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

4.12 beecrypt 3.1.0

4.12.1 Available under license :

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4.13 Berkely_DB 4.2.52

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4.14 bind 9.10.3-P4

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clarify this fact.

* 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

4.15 binutils 2.25.1

4.15.1 Available under license :

(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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@page
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a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

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 material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the 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 License, and the Corresponding Application Code in a form 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:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

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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.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, 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 or use pieces of it in new free programs; and that you know you can do these things.

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.

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.

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.

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.

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:

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 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.

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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Appendix: How to Apply These Terms to Your New Libraries

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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.

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Also add information on how to contact you by electronic and paper mail.

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@appendixsubsec Preamble

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in new free programs; and that you are informed that you can do these

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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 @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.

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.

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charge to all third parties under the terms of this License.

@item
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

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.

@item
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.

@item
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.

@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.

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.

@item
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:

@enumerate a
@item
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.)

@item
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.

@item
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.

@item
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.

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.

@item
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:

@enumerate a
@item

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.

@item
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.
@end enumerate

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@end enumerate

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

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the

ordinary General Public License).

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.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

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@end smallexample

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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:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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Version 2.1, February 1999

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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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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
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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
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instead of to this License. (If a newer version than version 2 of the
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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.

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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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:

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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!
(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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4.16 boost 1_52_0

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4.17 boost 1_64_0

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<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">
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<link rel="up" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
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<td align="center">><a href="../../../../../index.html">Home</a></td>
<td align="center">><a href="../../../../../libs/libraries.htm">Libraries</a></td>
<td align="center">><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center">><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center">><a href="../../../../../more/index.htm">More</a></td>
</tr></table>
<hr>
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accesskey="u" href="../index.html"><img src="../../../../../doc/src/images/up.png" alt="Up"></a><a accesskey="h"
href="../index.html"><img src="../../../../../doc/src/images/home.png" alt="Home"></a><a accesskey="n"
href="examples.html"><img src="../../../../../doc/src/images/next.png" alt="Next"></a>
```

```
</div>
<div class="section">
<div class="titlepage"><div><div><h2 class="title" style="clear: both">
<a name="boost_typetraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL
Interoperability</a>
</h2></div></div></div>
<p>
    All the value based traits in this library conform to MPL's requirements for
    an <a href="../../../../../libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral
    Constant type</a>.
  </p>
<p>
    Please note that these types no longer inherit from <code class="computeroutput"><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">true_</span></code> or
    <code class="computeroutput"><span class="identifier">mpl</span><span class="special">::</span><span
class="identifier">false_</span></code> etc, and the library will no longer
    implicitly include any MPL header. However there is an implicit conversion
    from <code class="computeroutput"><span class="identifier">integral_constant</span></code> to the
    corresponding MPL types, therefore tag-dispatching that uses MPL types in function
    overloads will still work as before.
  </p>
</div>
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<td align="left"></td>
<td align="right"><div class="copyright-footer">Copyright &#169; 2000, 2011 Adobe Systems Inc, David
Abrahams,
    Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
    Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten
    Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
    Watanabe<p>
      Distributed under the Boost Software License, Version 1.0. (See accompanying
      file LICENSE_1_0.txt or copy at <a href="http://www.boost.org/LICENSE_1_0.txt"
target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
    </p>
</div></td>
</tr></table>
<hr>
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accesskey="u" href="../index.html"><img src="../../../../../doc/src/images/up.png" alt="Up"></a><a accesskey="h"
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href="examples.html"><img src="../../../../../doc/src/images/next.png" alt="Next"></a>
</div>
</body>
</html>
[/
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```

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 http://www.boost.org/LICENSE_1_0.txt).
]

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements
for an [@../../../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type].

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library
will no longer implicitly include any MPL header.  However there is an implicit conversion from
`integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types
in function overloads will still work as before.

[endsect]
[/
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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>


template <typename State, typename X>
struct f { using type = X; };

struct state { };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;


int main() { }
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```

```
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>


template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;


int main() { }
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>


template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

int main() { }
```

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-->
<!-- boost-no-inspect -->
<!-- HTML header for doxygen 1.8.9.1-->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
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<script type="text/javascript" src="navtreedata.js"></script>
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 $(document).ready(initResizable);
 $(window).load(resizeHeight);
</script>
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<script type="text/javascript" src="search/search.js"></script>
<script type="text/javascript">
 $(document).ready(function() { init_search(); });
</script>
<script type="text/x-mathjax-config">
 MathJax.Hub.Config({
   extensions: ["tex2jax.js"],
   jax: ["input/TeX","output/HTML-CSS"],
});
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```

```
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MathJax.Hub.Config({
  "HTML-CSS": {
      linebreaks: {
         automatic: true,
         width: "75% container"
      }
  }
});
</script><script type="text/javascript" src="https://cdn.mathjax.org/mathjax/latest/MathJax.js"></script>
<link href="doxygen.css" rel="stylesheet" type="text/css" />
<!-- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>
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 <td style="padding-left: 0.5em;">
  <div id="projectname">Boost.Hana
   <span id="projectnumber">1.1.0</span>
  </div>
  <div id="projectbrief">Your standard library for metaprogramming</div>
 </td>
  <td>       <div id="MSearchBox" class="MSearchBoxInactive">
      <span class="left">
        <img id="MSearchSelect" src="search/mag_sel.png"
            onmouseover="return searchBox.OnSearchSelectShow()"
            onmouseout="return searchBox.OnSearchSelectHide()"
            alt=""/>
        <input type="text" id="MSearchField" value="Search" accesskey="S"
            onfocus="searchBox.OnSearchFieldFocus(true)"
            onblur="searchBox.OnSearchFieldFocus(false)"
            onkeyup="searchBox.OnSearchFieldChange(event)"/>
        </span><span class="right">
          <a id="MSearchClose" href="javascript:searchBox.CloseResultsWindow()"><img id="MSearchCloseImg"
border="0" src="search/close.png" alt=""/></a>
        </span>
      </div>
</td>
```

```
</tr>
</tbody>
</table>
</div>
<!-- end header part -->
<!-- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search",false,'Search');
</script>
</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
 <div id="nav-tree">
   <div id="nav-tree-contents">
     <div id="nav-sync" class="sync"></div>
   </div>
 </div>
 <div id="splitbar" style="-moz-user-select:none;"
      class="ui-resizable-handle">
 </div>
</div>
<script type="text/javascript">
$(document).ready(function(){initNavTree('group__group-ext-mpl.html','');});
</script>
<div id="doc-content">
<!-- window showing the filter options -->
<div id="MSearchSelectWindow"
    onmouseover="return searchBox.OnSearchSelectShow()"
    onmouseout="return searchBox.OnSearchSelectHide()"
    onkeydown="return searchBox.OnSearchSelectKey(event)">
</div>

<!-- iframe showing the search results (closed by default) -->
<div id="MSearchResultsWindow">
<iframe src="javascript:void(0)" frameborder="0"
       name="MSearchResults" id="MSearchResults">
</iframe>
</div>

<div class="header">
 <div class="summary">
<a href="#nested-classes">Classes</a>  </div>
 <div class="headertitle">
<div class="title">Boost.MPL adapters<div class="ingroups"><a class="el" href="group__group-
ext.html">External adapters</a></div></div>  </div>
</div><!--header-->
<div class="contents">
<a name="details" id="details"></a><h2 class="groupheader">Description</h2>
<p>Adapters for Boost.MPL containers. </p>
```

<table class="memberdecls">
<tr class="heading"><td colspan="2"><h2 class="groupheader">
Classes</h2></td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct </td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1integral__c.html">boost::mpl::integral_c< T, v ></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </td><td class="mdescRight">Adapter for IntegralConstants
from the Boost.MPL. More...
</td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2"> </td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct </td><td
class="memItemRight" valign="bottom">boost::mpl::list< T
></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </td><td class="mdescRight">Adapter for Boost.MPL lists.
More...
</td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2"> </td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct </td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector< T ></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </td><td class="mdescRight">Adapter for Boost.MPL
vectors. More...
</td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2"> </td></tr>
</table>
<!-- contents -->
<!-- doc-content -->
<!--
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Distributed under the Boost Software License, Version 1.0.
(See accompanying file LICENSE.md or copy at http://boost.org/LICENSE_1_0.txt)
-->
<!-- boost-no-inspect -->
<!-- HTML footer for doxygen 1.8.9.1-->
<!-- start footer part -->
<!-- id is needed for treeview function! -->

</body>
</html>
var group__group_ext_mpl =
[
  ["integral_c", "structboost_1_1mpl_1_1integral__c.html", null],
  ["list", "structboost_1_1mpl_1_1list.html", null],
  ["vector", "structboost_1_1mpl_1_1vector.html", null]
];
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby

```
from operator import itemgetter
import re
import magic

def authors(filename):
  log = run(['git', 'log', '--follow',
          '--date=short','--format=%aN%x09%ad', filename],
          universal_newlines=True)
  for line in log.splitlines():
     author, date = line.split('\t')
     if author != 'fix-copyright.py':
        yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
  def f():
     au = list(authors(filename))
     alldates = map(itemgetter(1), au)
     aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
     for author, records in groupby(aup, itemgetter(0)):
        dates = filter(None, map(itemgetter(1), records))
        if not dates: dates = alldates
        start = min(dates)
        end = max(dates)
        fmt = '{0}' if start.year == end.year else '{0}-{1}'
        line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
        key = (start, author)
        yield key, line
  return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
  # Find copyright block in original file
  prefix = set()
  names = []
  lines = []
  with open(filename, 'r') as f:
     content = list(f)
  for i, line in enumerate(content[:15]):
     m = re.match(r'^(?P<prefix>\W*)(\(c\))?\s*?copyright\s*(\(c\))?\s+\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$',
line, re.IGNORECASE)
     if m:
        d = m.groupdict()
        prefix.add(d['prefix'])
        lines.append(i)
        names.append(d['name'].strip())
  if len(prefix) != 1:
     print 'Not found:', filename
     return
  prefix = list(prefix)[0]
```

```
  print filename
  new = iter(new_copyright(filename, names))
  with open(filename, 'w') as f:
     for i, line in enumerate(content):
        if i in lines:
           for repl in new:
              print >>f, prefix + repl
        else:
           print >>f, line,
  pass

def all_files():
  ls = run(['git', 'ls-files'], universal_newlines=True)
  for filename in ls.splitlines():
     if magic.from_file(filename, mime=True).split('/')[0] == 'text':
        yield filename

for f in all_files():
  fix_copyright(f)
```

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```
<?xml version="1.0" encoding="utf-8"?>

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```

```
-->

<section id="date_time.license">
 <title>Boost Date-Time Library License</title>
 <bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
 <!--
 <ulink url="../../../index.htm">
   <imagedata align="left"
             format="GIF"
        fileref="../../../boost.png"
        alt="C++ Boost" />
    </ulink>-->
 <!--hr /-->
 <para>
   The following is the overall license for the boost date_time
   library. This notice is found in all source files related to the
   library.
 </para>
 <para>
   Copyright &#169; 2002 CrystalClear Software, Inc.
 </para>
 <para>
   Permission to use, copy, modify, distribute and sell this software
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   fee, provided that the above copyright notice appear in all copies
   and that both that copyright notice and this permission notice
   appear in supporting documentation. CrystalClear Software makes no
   representations about the suitability of this software for any
   purpose. It is provided "as is" without express or implied
   warranty.
 </para>
 <!--hr / -->
 <ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
 &#169; 2000-2002
</section>
==========================================================================
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==========================================================================
```

The default copyright note for C++ source files reads:

```
// Boost.Geometry (aka GGL, Generic Geometry Library)
```

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// Parts of Boost.Geometry are redesigned from Geodan's Geographic Library
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  - adapted geometry types e.g. array, Boost.Polygon
  - implemented file-format e.g. WKB
  - implemented specific strategy or algorithm e.g. intersections
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5) Docs -> might take sole copyright
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and comments are changed accordingly.
[/==========
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```
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
 <articleinfo>
   <copyright>
     <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
   </copyright>
   <copyright>
     <year>2018</year> <holder>Joe Blow, John Coe</holder>
   </copyright>
   <copyright>
     <year>1977</year> <year>1985</year> <holder>Someone else</holder>
   </copyright>
 </articleinfo>
</article>
[article Copyright Test
[quickbook 1.5]
[copyright 1963-1965 Jane Doe, 2018 Joe Blow, John Coe]
[copyright 1977,1985 Someone else]
]
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]
```

Maybe this should pass?

```
/*
*
* Copyright (c) 2003 Dr John Maddock
* Use, modification and distribution is subject to the
* Boost Software License, Version 1.0. (See accompanying file
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
*
*/

#include "licence_info.hpp"
```

```
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
  const fs::path& root;
  const fs::path& file;
  split_path(const fs::path& r, const fs::path& f)
     : root(r), file(f){}
private:
  split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
  os << "<a href=\"" << (p.root / p.file).string() << "\">" << p.file.string() << "</a>";
  return os;
}

std::string make_link_target(const std::string& s)
{
  // convert an arbitrary string into something suitable
  // for an <a> name:
  std::string result;
  for(unsigned i = 0; i < s.size(); ++i)
  {
     result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
  }
  return result;
}


void bcp_implementation::output_license_info()
{
  std::pair<const license_info*, int> licenses = get_licenses();

  std::map<int, license_data>::const_iterator i, j;
```

```
i = m_license_data.begin();
j = m_license_data.end();

std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
   std::string msg("Error opening ");
   msg += m_dest_path.string();
   msg += " for output.";
   std::runtime_error e(msg);
   boost::throw_exception(e);
}
os <<
   "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
   "<html>\n"
   "<head>\n"
   "<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
   os << " for " << *(m_module_list.begin());
}
os <<
   "</title>\n"
   "</head>\n"
   "<body>\n"
   "<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
   os << " for " << *(m_module_list.begin());
}
os <<
   "</H1>\n"
   "<H2>Contents</h2>\n"
   "<pre><a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
   os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";

while(i != j)
{
   // title:
   os << "   <A href=\"#" << make_link_target(licenses.first[i->first].license_name)
      << "\">" << licenses.first[i->first].license_name << "</a>\n";
   ++i;
}

os << "<a href=\"#files\">Files with no recognised license</a>\n"
   "<a href=\"#authors\">Files with no recognised copyright holder</a>\n";
```

```
if(!m_bsl_summary_mode)
{
   os <<
   "Moving to the Boost Software License...\n"
   "  <a href=\"#bsl-converted\">Files that can be automatically converted to the Boost Software License</a>\n"
   "  <a href=\"#to-bsl\">Files that can be manually converted to the Boost Software License</a>\n"
   "  <a href=\"#not-to-bsl\">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
   "  <a href=\"#need-bsl-authors\">Authors we need to move to the Boost Software License</a>\n"
   "<a href=\"#copyright\">Copyright Holder Information</a>\n";
}
os <<
   "<a href=\"#depend\">File Dependency Information</a>\n"
   "</pre>";

//
// input Information:
//
os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
   os << "<P>The following files were scanned for boost dependencies:<BR>";
else
   os << "<P>The following Boost modules were checked:<BR>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
   os << *si << "<BR>";
   ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
   "^[[:blank:]]*#[[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
   int version = boost::lexical_cast<int>(what.str(1));
   os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
<< "</P>\n";
}

//
```

```
  // output each license:
  //
  i = m_license_data.begin();
  j = m_license_data.end();
  if(!m_bsl_summary_mode)
  {
    //
    // start with the summary:
    //
    os << "<a name=\"summary\"></a><h2>Licence Summary</h2>\n";
    while(i != j)
    {
      // title:
      os <<
        "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
      // license text:
      os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
      // Copyright holders:
      os << "<P>This license is used by " << i->second.authors.size()
        << " authors and " << i->second.files.size()
        << " files <a href=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>";
      os << "</P></BLOCKQUOTE>\n";
      ++i;
    }
  }
  //
  // and now the details:
  //
  i = m_license_data.begin();
  j = m_license_data.end();
  int license_index = 0;
  os << "<a name=\"details\"></a><h2>Licence Details</h2>\n";
  while(i != j)
  {
    // title:
    os <<
      "<H3><A name=\"" << make_link_target(licenses.first[i->first].license_name)
      << "\"></a>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
      // Copyright holders:
      os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
      std::set<std::string>::const_iterator x, y;
      x = i->second.authors.begin();
      y = i->second.authors.end();
```

```
        while(x != y)
        {
          os << *x << "<BR>\n";
          ++x;
        }
        os << "</P></BLOCKQUOTE>\n";
        // Files using this license:
        os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
        std::set<fs::path, path_less>::const_iterator m, n;
        m = i->second.files.begin();
        n = i->second.files.end();
        while(m != n)
        {
          os << split_path(m_boost_path, *m) << "<br>\n";
          ++m;
        }
        os << "</P></BLOCKQUOTE>\n";
      }
      else
      {
        os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
        os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
      }
      ++license_index;
      ++i;
    }
    //
    // Output list of files not found to be under license control:
    //
    os << "<h2><a name=\"files\"></a>Files With No Recognisable Licence</h2>\n"
      "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>\n";
    std::set<fs::path, path_less>::const_iterator i2, j2;
    i2 = m_unknown_licenses.begin();
    j2 = m_unknown_licenses.end();
    while(i2 != j2)
    {
      os << split_path(m_boost_path, *i2) << "<br>\n";
      ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of files with no found copyright holder:
    //
    os << "<h2><a name=\"authors\"></a>Files With No Recognisable Copyright Holder</h2>\n"
      "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n<BLOCKQUOTE><P>";
```

```
  i2 = m_unknown_authors.begin();
  j2 = m_unknown_authors.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
  }
  os << "</p></BLOCKQUOTE>";
  if(!m_bsl_summary_mode)
  {
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name=\"bsl-converted\"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"
      << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
    if (!m_converted_to_bsl.empty())
    {
      typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
      conv_iterator i = m_converted_to_bsl.begin(),
                    ie = m_converted_to_bsl.end();
      int file_num = 1;
      while (i != ie)
      {
        os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
          << "</tt><br>\n<table border=\"1\">\n  <tr>\n    <td><pre>"
          << i->second.first << "</pre></td>\n    <td><pre>"
          << i->second.second << "</pre></td>\n  </tr>\n</table>\n";
        ++i;
        ++file_num;
      }
    }
    //
    // Output list of files that could be moved over to the Boost Software License
    //
    os << "<h2><a name=\"to-bsl\"></a>Files that could be converted to the Boost Software License</h2>\n"
    "<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
      os << split_path(m_boost_path, *i2) << "<br>\n";
      ++i2;
```

```
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of files that can not be moved over to the Boost Software License
    //
    os << "<h2><a name=\"not-to-bsl\"></a>Files that can NOT be converted to the Boost Software
License</h2>\n"
    "<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
      os << split_path(m_boost_path, *i2) << "<br>\n";
      ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of authors that we need permission for to move to the BSL
    //
    os << "<h2><a name=\"need-bsl-authors\"></a>Authors we need for the BSL</h2>\n"
      "<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>\n<BLOCKQUOTE><P>";
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "<br>\n"));
    os << "</p></BLOCKQUOTE>";
    //
    // output a table of copyright information:
    //
    os << "<H2><a name=\"copyright\"></a>Copyright Holder Information</H2><table border=\"1\">\n";
    std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
    ad = m_author_data.begin();
    ead = m_author_data.end();
    while(ad != ead)
    {
      os << "<tr><td>" << ad->first << "</td><td>";
      std::set<fs::path, path_less>::const_iterator fi, efi;
      fi = ad->second.begin();
      efi = ad->second.end();
      while(fi != efi)
      {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
      }
      os << "</td></tr>\n";
      ++ad;
    }
```

```
  os << "</table>\n";
}

//
// output file dependency information:
//
os << "<H2><a name=\"depend\"></a>File Dependency Information</H2><BLOCKQUOTE><pre>\n";
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
  bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
  bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
  bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
  bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
  conv_iterator i = m_converted_to_bsl.begin(),
              ie = m_converted_to_bsl.end();
  while(i != ie)
  {
    bad_paths.insert(i->first);
    ++i;
  }
  fi = bad_paths.begin();
  efi = bad_paths.end();
  os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
  os << split_path(m_boost_path, *fi);
  dep = m_dependencies.find(*fi);
  last_dep = m_dependencies.end();
  std::set<fs::path, path_less> seen_deps;
  if (dep != last_dep)
    while(true)
      {
        os << " -> ";
        if(fs::exists(m_boost_path / dep->second))
          os << split_path(m_boost_path, dep->second);
        else if(fs::exists(dep->second))
          os << split_path(fs::path(), dep->second);
        else
          os << dep->second.string();
```

```
        if(seen_deps.find(dep->second) != seen_deps.end())
          {
            os << " <I>(Circular dependency!)</I>";
            break; // circular dependency!!!
          }
        seen_deps.insert(dep->second);
        last_dep = dep;
        dep = m_dependencies.find(dep->second);
        if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
          break;
      }
    os << "\n";
    ++fi;
  }
  os << "</pre></BLOCKQUOTE>\n";

  os << "</body></html>\n";

  if(!os)
  {
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".";
    std::runtime_error e(msg);
    boost::throw_exception(e);
  }

}
```

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

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.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
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.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on
Wed, 17 July 2002, 19:27:00 +0400.

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```
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```

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```
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/container for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

using boost::move_detail::integral_constant;
```

```
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template <class FirstType>
struct select1st
{
  typedef FirstType type;

  template<class T>
  const type& operator()(const T& x) const
  {  return x.first;   }

  template<class T>
  type& operator()(T& x)
  {  return const_cast<type&>(x.first);   }
};

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#include <boost/container/detail/config_end.hpp>
```

```
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
//////////////////////////////////////////////////////////////////////////////
//
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/interprocess for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
  static const bool value = C_;
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_  true_type;
```

```
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
 typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
     bool C
   , typename T1
   , typename T2
   >
struct if_c
{
   typedef T1 type;
};

template<
     typename T1
   , typename T2
   >
struct if_c<false,T1,T2>
{
   typedef T2 type;
};

template<
     typename T1
   , typename T2
   , typename T3
   >
struct if_
{
```

```
  typedef typename if_c<0 != T1::value, T2, T3>::type type;
};


template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
//////////////////////////////////////////////////////////////////////////////
//
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//          http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/intrusive for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
```

```
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
```

```
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
  template <typename T, typename DefaultType>                     \
  struct boost_intrusive_default_type_ ## TNAME                   \
  {                                                               \
    template <typename X>                                         \
    static char test(int, typename X::TNAME*);                    \
                                                                  \
    template <typename X>                                         \
    static int test(...);                                         \
                                                                  \
    struct DefaultWrap { typedef DefaultType TNAME; };            \
                                                                  \
    static const bool value = (1 == sizeof(test<T>(0, 0)));       \
                                                                  \
    typedef typename                                              \
      ::boost::intrusive::detail::if_c                            \
        <value, T, DefaultWrap>::type::TNAME type;                \
  };                                                              \
  //

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL)   \
    typename INSTANTIATION_NS_PREFIX                                  \
      boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type        \
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
  template <typename T, typename DefaultType>                     \
  struct boost_intrusive_eval_default_type_ ## TNAME              \
  {                                                               \
```

```
    template <typename X>                                   \
    static char test(int, typename X::TNAME*);                  \
                                                            \
    template <typename X>                                   \
    static int test(...);                                       \
                                                            \
    struct DefaultWrap                                          \
    { typedef typename DefaultType::type TNAME; };              \
                                                            \
    static const bool value = (1 == sizeof(test<T>(0, 0)));     \
                                                            \
    typedef typename                                            \
      ::boost::intrusive::detail::eval_if_c                     \
        < value                                             \
        , ::boost::intrusive::detail::identity<T>               \
        , ::boost::intrusive::detail::identity<DefaultWrap>   \
        >::type::TNAME type;                                    \
  };                                                        \
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX                                        \
      boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type                 \
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) \
template <class T>\
struct TRAITS_PREFIX##_bool\
{\
  template<bool Add>\
  struct two_or_three {yes_type _[2 + Add];};\
  template <class U> static yes_type test(...);\
  template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
  static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
  static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
 template <typename U, typename Signature> \
```

```
 class TRAITS_NAME \
 { \
 private: \
 template<Signature> struct helper;\
 template<typename T> \
 static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); \
 template<typename T> static ::boost::intrusive::detail::no_type test(...); \
 public: \
 static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
 }; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \
struct TRAITS_NAME \
{ \
  struct BaseMixin \
  { \
     void FUNC_NAME(); \
  }; \
  struct Base : public Type, public BaseMixin { Base(); }; \
  template <typename T, T t> class Helper{}; \
  template <typename U> \
  static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
  static ::boost::intrusive::detail::yes_type test(...); \
  static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
};\
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)
\
\
template <typename Type, class> \
struct TRAITS_NAME \
  : public TRAITS_NAME##_ignore_signature<Type> \
{};\
//

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
```

The following people hereby grant permission to replace all existing
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4.18 bridge-utils 1.5

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

```
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  usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
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4.22 Cache-Memcached-Fast 0.17

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from README

<snip>

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<signature of Ty Coon>, 1 April 1989
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4.23 cairo 1.7.4

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4.24 Carp-Clan 6.04

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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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http://www.engelschall.com/u/sb/download/

4.25 CGI-Session 4.42

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4.26 CGI.pm 3.63

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4.27 cifs-mount 1.7

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4.28 Class-Accessor 0.34

4.28.1 Available under license :

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4.29 Class-Data-Inheritable 0.08

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

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4.30 Class-ErrorHandler 0.01

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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
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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
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4.31 Class-Generate 1.1

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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
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commands you use may be called something other than `show w' and `show
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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4.32 Class-Loader 2.02

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from lib/Class/Loader.pm

<snip>

```
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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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4.33 Class-Singleton 1.4

4.33.1 Available under license :

from README:

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```

The hypothetical commands `show w' and `show c' should show the
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```
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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!

4.34 Class-XPath 1.4

4.34.1 Available under license :

from README...

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4.35 clish 0.7.3

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tinyrl/
tinyrl/history
tinyrl/vt100

lub/heap/
lub/heap/vxworks
lub/heap/posix
lub/dblockpool
lubheap/
lubheap/vxworks
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\section _tinyxml Yves Berquin
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\verbatim
tinyxml (v2.5.1)
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http://www.sourceforge.net/projects/tinyxml
Original file by Yves Berquin.

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\section _binutils GNU binutils
As of release 0.7.1 libbfd can be used to resolve symbols for stacktraces. This feature can be turned off if linking with GPL code is problematic, using "configure --without-gpl".

The Binary File Descriptor library is part of GNU binutils
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lub/heap/posix/heap_symShow.c

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4.38 ConcurrentLogHandler 0.9.1

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

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

<snip>

=head1 AUTHOR

Scott Wiersdorf, E<lt>scott@perlcode.orgE<gt>

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=cut

4.40 Convert-ASCII-Armour 1.4

4.40.1 Available under license :

```
#!/usr/bin/perl -sw
##
## Makefile.PL for Conver::ASCII::Armour
##
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##
## $Id: Makefile.PL,v 1.2 2001/03/19 23:02:47 vipul Exp $
```

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

That's all there is to it!

4.41 Convert-ASN1 0.22

4.41.1 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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4.42 Convert-PEM 0.07

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from /lib/Convert/PEM.pm

<snip>
=head1 AUTHOR & COPYRIGHTS

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<signature of Ty Coon>, 1 April 1989
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That's all there is to it!

4.43 coreutils 8.22

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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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4.45 cracklib 2.8.12

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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.

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

4.46 crash 7.1.9

4.46.1 Available under license :

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Version 3, 29 June 2007

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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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[This is the first released version of the library GPL. It is
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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.

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.

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

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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.

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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.

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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.

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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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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

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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.

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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.

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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.

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 @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.

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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@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. 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.

@item
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:

@enumerate a
@item
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.)

@item
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.

@item
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.

@item
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.

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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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:

@enumerate a
@item
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.

@item
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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@end enumerate

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

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

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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.

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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Version 2.1, February 1999

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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

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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

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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.

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.

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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.

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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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4.47 cronie 1.2

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```

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4.50 Crypt-Cracklib 1.4

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4.51 Crypt-DES 2.05

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4.52 Crypt-DES_EDE3 0.01

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4.55 Crypt-OpenSSL-AES 0.02

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4.56 Crypt-OpenSSL-Random 0.06

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4.57.1 Available under license :

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=cut

4.58 Crypt-PasswdMD5 1.3

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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
# ----------------------------------------------------------------------------

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Luis E. Muñoz <luismunoz@cpan.org>

from README...

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the

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

That's all there is to it!

4.59 Crypt-Primes 0.50

4.59.1 Available under license :

from README

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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!

4.60 Crypt-RSA 1.99

4.60.1 Available under license :

from META.yml

license: perl

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4.61 Crypt-X509-CRL 0.1

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from README

<snip>

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<signature of Ty Coon>, 1 April 1989
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4.62 curl 7.48.0

4.62.1 Available under license :

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==========

libcurl can be built to use a fair amount of various third party libraries,
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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.

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from Buffer.pm

<snip>

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4.65 Data-Compare 1.22

4.65.1 Available under license :

Data::Compare - compare perl data structures
Author: Fabien Tassin <fta@sofaraway.org>
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4.66 Data-Serializer 0.49

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4.67 Data-UUID 1.203

4.67.1 Available under license :

from README

<snip>

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from META.yml

<snip>

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4.68 Date-Calc 6.3

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4.69 Date-Calc-XS 6.2

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4.70 Date-Manip 6.53

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4.71 DateTime 0.53

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4.72 DateTime-Event-Cron 0.07

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```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision 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
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commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
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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```
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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That's all there is to it!

4.73 DateTime-Event-ICal 0.1

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4.78 DBD-mysql 4.013

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4.79 DBD-mysql/MAKEFILE subpart 4.013

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4.82 DBI 1.609

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from DBI.pm

<snip>

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4.83 debianutils 2.7

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4.84 Devel-TraceCalls 0.04

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4.85 dhcp 4.2.4-P1

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4.87 diffutils 2.8.1

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

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4.89 Digest-MD5 2.39

4.89.1 Available under license :

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*
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* turn is derived from the reference implementation in RFC 1321 which
* comes with this message:
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*/
```

4.90 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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4.91 Django 1.6.1

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4.93 dosfstools 3.0.28

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*
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*
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* 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.
*/
```

4.95 e1000 8.0.35

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Theodore Ts'o
23-June-2007

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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.

Our method of protecting your rights has two steps: (1) copyright
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Most GNU software, including some libraries, is covered by the ordinary
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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.

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.

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

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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.

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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 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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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

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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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Appendix: How to Apply These Terms to Your New Libraries

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4.97 ebtables 2.0.8-2

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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 Program.

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c) Accompany it with the information you received as to the offer

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4.100 efitools 1.7.0

4.100.1 Available under license :

efitools - useful tools for manipulating UEFI secure boot platforms

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4.112 Error 0.15

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```
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#
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# This program is free software; you can redistribute it and/or
# 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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4.113 ethtool 3.9

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4.114 ethwireck 1.2

4.114.1 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
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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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4.115 EV 4.17

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4.117 ewaters-poe-component-client-amqp 58941a1

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when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision 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
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commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
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
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!

4.121 Exporter::Tiny 0.042

4.121.1 Available under license :

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Exporter-Tiny
Upstream-Contact: Toby Inkster (TOBYINK) <tobyink@cpan.org>
Source: https://metacpan.org/release/Exporter-Tiny

Files: lib/Exporter/Shiny.pm
t/05shiny.t
t/06notwant.t
t/07regexp.t
t/08tags.t
t/09warnings.t
t/10no.t
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4.122 ExtUtils-CChecker 0.07

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4.123 ExtUtils-Constant 0.23

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*/

<snip>

4.125 File-Find-Rule 0.33

4.125.1 Available under license :

<snip>

=head1 AUTHOR

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

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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
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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!

4.126 File-Slurp 9999.13

4.126.1 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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If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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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when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision 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, the
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
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!

4.127 findutils 4.4.0

4.127.1 Available under license :

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Version 3, 29 June 2007

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An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible

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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.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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4.128 flashrom 0.9.5.2

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4.129 fontconfig 2.6.0

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4.130 freeradius-client 1.1.7

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4.132 fuse 2.9.3

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4.134 gcc 4.7.1

4.134.1 Available under license :

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
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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 @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.

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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@ifinfo
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@end ifinfo

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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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The modified work must itself be a software library.

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You must cause the whole of the work to be licensed at no
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@item
If a facility in the modified Library refers to a function or a
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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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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
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collective works based on the Library.

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@item
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@item
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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.

@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. 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.

@item
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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@enumerate a
@item
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.)

@item
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.

@item
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.

@item
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,
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which the executable runs, unless that component itself accompanies the
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@enumerate a
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@item
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@end enumerate

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

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

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possible use to the public, we recommend making it free software that

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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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consider it more useful to permit linking proprietary applications with the

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Public License instead of this License.
BSD on the PA already has ANSI include files which are c++ compatible.
STMP_FIXPROTO=
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

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.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
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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4.138 GDGraph 1.44

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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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Appendix: How to Apply These Terms to Your New Libraries

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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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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:

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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.]

Preamble

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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.

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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.

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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.

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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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 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.

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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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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:

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4.143 ghostscript-fonts-std 8.11

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Written by: Philip Hazel
Email local part: ph10
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4.148 gmp/lgpl_areas 5.0.5

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4.149 gnu-efi 3.0.3

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```
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```

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

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4.151 Graph 0.91

4.151.1 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
```

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

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4.152 grep 2.5.3

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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

# The arguments to this script should be names of files that contain
# copyright statements to be updated.  The copyright holder's name
# 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
#    * Free Software Foundation, Inc.
#    */
#
# However, the following format is not recognized because the line
# prefix changes after the first line:
#
#   ## Copyright (C) 1990-2005, 2007-2009 Free Software
#   #  Foundation, Inc.
#
# However, any correctly formatted copyright statement following
```

```
# a non-matching copyright statements would be recognized.
#
# The exact conditions that a file's copyright statement must meet
# to be recognized are:
#
#   1. It is the first copyright statement that meets all of the
#      following conditions.  Subsequent copyright statements are
#      ignored.
#   2. Its format is "Copyright (C)", then a list of copyright years,
#      and then the name of the copyright holder.
#   3. The "(C)" takes one of the following forms or is omitted
#      entirely:
#
#        A. (C)
#        B. (c)
#        C. @copyright{}
#        D. &copy;
#
#   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:
```

4.155 hd2u 1.0.3

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4.156 Heap 0.8

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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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The End

4.158 HOP-Stream 0.03

4.158.1 Available under license :

from /lib/HOP/Stream.pm

<snip>

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<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Also add information on how to contact you by electronic and paper mail.

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when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision 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
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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
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

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The End

4.159 HTML-HTMLDoc 0.1

4.159.1 Available under license :

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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it under the same terms as Perl itself

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

That's all there is to it!

4.160 HTML-Parser 3.64

4.160.1 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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* modify it under the same terms as Perl itself.
*/

<snip>
from README

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4.161 HTML-Tagset 3.20 :DUPLICATE

4.161.1 Available under license :

from README

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4.162 HTML-Template 2.9

4.162.1 Available under license :

from README

<snip>

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4.163 HTML-TokeParser-Simple 3.15

4.163.1 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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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

That's all there is to it!

4.164 htmldoc 1.8.27

4.164.1 Available under license :

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```
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```
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Glenn Randers-Pehrson
glennrp@users.sourceforge.net
September 12, 2004

```
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*  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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*/
```

4.165 httpd 2.4.20

4.165.1 Available under license :

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
            This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
```

<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet" type="text/css" href="./style/css/prettify.css" />
<script src="./style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="./images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar">
Modules | Directives | FAQ | Glossary | Sitemap
Apache HTTP Server Version 2.4

<img title="<-" alt="<-" src="./images/left.gif" />

Apache > HTTP Server > Documentation > Version 2.4 <h1>The Apache License, Version 2.0</h1>

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```
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<script type="text/javascript"><!--//--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
     d.write('<div id="comments_thread"><\/div>');
     var s = d.createElement('script');
     s.type = 'text/javascript';
     s.async = true;
     s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
     (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
     d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\/div>');
  }
})(window, document);
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href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="./glossary.html">Glossary</a> | <a
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* httpd@ncsa.uiuc.edu
*
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Some web page improvements
Windows configure
Windows IMDisplay
Windows ATL COM

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4.173 IO-Socket-INET6 2.69

4.173.1 Available under license :


```
---
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.

Modified by Rafael Martinez Torres <rmartine@fdi.ucm.es> and
Euro6IX project.

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

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```
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```
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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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4.174 IO-Socket-IP 0.31

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4.175 IO-Socket-SSL 1.997

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from META.yml

<snip>

license: perl

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

<snip>

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4.176 IO-String 1.08

4.176.1 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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4.177 IO-Tty 1.08

4.177.1 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

```
* copyright messages attached.
*/


<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>
<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
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4.178 ipaddr 2.1.7

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4.181 ipmiutil 2.8.4

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4.182 iproute2 3.11.0

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4.184 iputils s20101006

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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 -
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* More statistics could always be gathered.
* This program has to run SUID to ROOT to access the ICMP socket.
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4.186 ixgbe 2.0.72.4

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4.189 jpeg v6b

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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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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.

4.190 JSON 2.16

4.190.1 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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The relese of this new version owes to the courtesy of Marc Lehmann.

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That's all there is to it!

4.191 JSON-XS 2.26

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

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4.192 jwhois 4.0

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4.194 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_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
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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
lib/gssapi/mechglue/g_rel_oid_set.c
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

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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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4.196 keyutils 1.5.9

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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 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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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

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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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4.198 KVM inter-VM shared memory module 1

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Nahanni/ivshmem guest-code

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Less, version 451

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4.200 lfs-bootscripts 3.1.0

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4.201 libaio 0.3.110-1

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4.204 libdnet 1.12

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```
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* err.h
*
* Adapted from OpenBSD libc *err* *warn* code.
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*
* @(#)err.h 8.1 (Berkeley) 6/2/93
*/
```

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4.205 libevent 1.4.13-stable

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```
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```

4.206 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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---

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---

http://www.gnu.org/software/libiconv/

Bug reports to

<bug-gnu-libiconv@gnu.org>

Bruno Haible <bruno@clisp.org>
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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.

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.

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.

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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Appendix: How to Apply These Terms to Your New Libraries

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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.

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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4.207 libnet 1.0.2a

4.207.1 Available under license :

$Id: COPYING,v 1.1.1.1 2000/05/25 00:28:49 route Exp $

libnet 1.0.x
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EOF
/*
* $Id: ether_mod-2.6.c,v 1.1.1.1 2000/05/25 00:28:49 route Exp $
*
* libnet
* OpenBSD 2.6 ether_mod.c - lkm replacement for ether_output
* UNTESTED as of Thu Mar 9 21:52:03 PST 2000.

```
*
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*
*     @(#)if_ethersubr.c      8.1 (Berkeley) 6/10/93
*/
```

4.208 libnl 3.2.1

4.208.1 Available under license :

```
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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.

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.

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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

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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.

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:

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4.210 libpcap/ndsu-portions 1.3.0

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*

* @(#) $Header: /tcpdump/master/libpcap/sunatmpos.h,v 1.1 2002-07-11 09:06:47 guy Exp $ (LBL)

*/
```

4.211 libpng 1.2.56

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December 17, 2015

4.212 libpng/gregbook 1.2.56

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4.213 libusb 1.017

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4.214 libusb-compat 0.1.5

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That's all there is to it!

4.215 libwww-perl 5.834

4.215.1 Available under license :

```
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:

http://gitorious.org/projects/libwww-perl

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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:

```
Gnomovision version 69, Copyright (C) 19xx name of author
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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
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commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
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
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!

4.216 libxml2 2.9.4

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```
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*
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*
*************************************************************************
*
/*
* hash.c: chained hash tables
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```

4.217 libxslt 1.1.28

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4.218 lilo 24.2

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Version 2.1, February 1999

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4.219 Linux Kernel 3.10.53

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Linus Torvalds

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 for his contributions to the dvb-net driver

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 procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

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customarily used for software interchange; or,

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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

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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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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.)

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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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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

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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 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

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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.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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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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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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4.225 lsof 4.8

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4.226 lua 5.1.4

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4.227 luajit 2.0.2

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==========

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4.228 Math-Base85 0.2

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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
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That's all there is to it!

4.229 Math-BigInt-GMP 1.24

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4.230 Math-BigInt-Pari 1.13

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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!

4.231 Math-Complex 1.56

4.231.1 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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4.232 Math-GMP 2.06

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4.235 meld3 1.0.2

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4.236 memcached 1.4.13

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4.237 Memcached-libmemcached 0.3102

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4.238 MIME-Base64 3.08

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

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4.239 MIME-Types 1.28

4.239.1 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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Version 1, February 1989

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4.240 minicom 2.6.1

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Modemu Version 0.0.1

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when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
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under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate
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```
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'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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4.243 Module-Pluggable 3.9

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```
README

<snip>


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  Distributed under the same terms as Perl itself.

BUGS
  None known.
```

SEE ALSO

File::Spec, File::Find, File::Basename, Class::Factory::Util, Module::Pluggable::Ordered

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4.244 mojolicious 5.28

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```
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% 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!

4.245 msmtp 1.4.31

4.245.1 Available under license :

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Version 3, 29 June 2007

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```
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```
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4.246 Ncurses 5.6

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```
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-- authorization.                                                           --
-----------------------------------------------------------------------------
-- $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)
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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.

4.247 net tools 1.60

4.247.1 Available under license :

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4.248 Net-AMQP 0.02

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4.249 Net-CIDR 0.13

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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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4.250 Net-CIDR-Lite 0.21

4.250.1 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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free software which everyone can redistribute and change under these
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<one line to give the program's name and a brief idea of what it does.>
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Gnomovision version 69, Copyright (C) 19xx name of author
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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!

4.251 Net-DNS 0.68

4.251.1 Available under license :

from /demo/mresolv

<snip>

=head1 COPYRIGHT

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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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<snip>

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

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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!

4.253 Net-IPv4Addr 0.1

4.253.1 Available under license :

from README

<snip>

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4.254 Net-IPv6Addr 0.2

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from README

<snip>

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<signature of Ty Coon>, 1 April 1989
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4.255 Net-IPv6Addr/rfc-document 0.2

4.255.1 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
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<snip>

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<snip>

4.256 Net-SCP-Expect 0.16

4.256.1 Available under license :

from Expect.pm

<snip>

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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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4.257 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].

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

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" ))
```


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.

5. Notice on Intellectual Property

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The IETF invites any interested party to bring to its attention any copyrights, patents or patent applications, or other proprietary rights which may cover technology that may be required to practice this standard. Please address the information to the IETF Executive Director.

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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;

- 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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      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 }

END
```

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The End

4.259 Net-SSLeay 1.55

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from /lib/Net/SSLeay.pm

```
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#
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#
# $Id: SSLeay.pm 378 2013-06-07 22:29:53Z mikem-guest $
#
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from META.yml

<snip>

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*
* $Id: SSLeay.xs 378 2013-06-07 22:29:53Z mikem-guest $
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```

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```

4.260 Net-Telnet 3.03

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from /lib/Net/Telnet.pm

```
package Net::Telnet;

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## modify it under the same terms as Perl itself.

## 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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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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4.261 Net::AMQP::RabbitMQ 0.31

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4.262 NetAddr::IP 4.075

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4.263 netkit-ftp 0.17

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4.264 netkit-telnet 0.17

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<signature of Ty Coon>, 1 April 1989
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4.266 Nmap-Parser 1.19

4.266.1 Available under license :

```
#!/usr/bin/perl
#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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4.267 Nmap-Parser/nmap2db subpart 1.19

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```
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G PERSAUD
#  BUT MODIFIED TO WORK WITH MYSQL DATABASES BY ROBIN BOWES.
#  nmap2db.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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4.268 Nmap-Scanner 0.9

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4.269 ntp 4.2.8p9

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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
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<snip>

4.272 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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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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4.273 Object-MultiType 0.05

4.273.1 Available under license :

from MultiType.pm

<snip>

=head1 AUTHOR

Graciliano M. P. <gm@virtuasites.com.br>

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

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4.274 openldap 2.4.31

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4.278 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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```
/* crypto/aes/aes_wrap.c */
/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
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* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
* size keys (Implemented RFC5649)
*/
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4.279 pam-redhat 0.99.9 :1

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```
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*
*/


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* 5 March 1997
*
* Stuff stolen from pam_rootok and pam_listfile
*
* Changes by Tomas Mraz <tmraz@redhat.com> 5 January 2005, 26 January 2006
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*/

4.280 pam_ldap 184.0

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4.281 pam_radius 1.3.17

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4.282 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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Behdad Esfahbod
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26 February 2007
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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
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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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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!

4.284 Parse-RecDescent 1.962.2

4.284.1 Available under license :

From README

<snip>

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```

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```
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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, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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4.285 parted 3.2

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

4.286 Passwd-Linux 1.2

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The End
From: Eric Estabrooks <eric@urbanrage.com>
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

4.287 patch 2.7.5

4.287.1 Available under license :

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Version 3, 29 June 2007

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4.288 pciutils 3.0.1

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4.289 pcre 7.6

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Written by: Philip Hazel
Email local part: ph10
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4.290 perl 5.10.1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

4.291 perl-ldap 0.39

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from README...

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4.292 PerlMagick 6.58

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4.293 pika 0.10.0

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4.294 pixman 0.11.10

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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
```

Taken from installpkg script

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```
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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
#
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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
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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```

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#
#!/bin/sh
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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
#!/bin/sh
#
# Copyright 1993, 1994, 1995, 1996, 1997,
#    1998, 1999  Patrick Volkerding,  Moorhead, MN  USA
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```

```
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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
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 $*

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#  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
#!/bin/sh
# Copyright 2001 BSDi, Inc, Concord, CA.  Written by volkerdi@slackware.com.
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#
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#
```

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#
#!/bin/sh
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Written by John Gilmore and Jay Fenlason

4.296 Pod-Simple 3.28

4.296.1 Available under license :

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```
  "license" : [
    "perl_5"
  ]
```

4.297 POE 1.35

4.297.1 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
```

The "Artistic License"

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4.298 POE-Test-Loops 1.35

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4.299 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
```

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<snip>

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4.300 portmap 6.0

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4.301 procps 3.2.8

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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.]

Preamble

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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.

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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.

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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a) The modified work must itself be a software library.

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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.

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 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

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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.

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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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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.)

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4.302 protobuf 2.4.1

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  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
  * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
  * Fixed warnings about generated constructors not explicitly initializing
    all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>

* Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* 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().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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4.303 psmisc 22.6

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4.305 pyparsing 2.0.1

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4.306 python 2.7.10

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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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4.309 Regexp-Common 2.122

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4.310 Return-Value 1.666001

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4.311 rpm 4.2.1

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4.312 rpm/db_and_rpmdb 4.2.1

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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 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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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

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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!
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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.]

Preamble

The licenses for most software are designed to take away your
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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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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.

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.

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.

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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 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:

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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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It may happen that this requirement contradicts the license

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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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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.

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4.314 rrdtool 1.4.9

4.314.1 Available under license :

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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.

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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.

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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that program using a modified version of the Library.

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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

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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.

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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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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
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That's all there is to it!
Id

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Version 2, June 1991

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4.317 Safe 2.33

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4.318 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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<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!

4.319 Schedule-Cron 0.99

4.319.1 Available under license :

from /lib/Schedule/Cron.pm

<snip>

=head1 LICENSE

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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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-------

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Enjoy it...
                                ...roland (roland@cpan.org)

    The "Artistic License"

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The hypothetical commands `show w' and `show c' should show the
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

4.320 scrub 2.2

4.320.1 Available under license :

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4.322 Set-Crontab 1.02

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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
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4.323 Set-Infinite 0.63

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

That's all there is to it!

4.324 Set-Scalar 1.26

4.324.1 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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4.325 setuptools 19.6.2

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4.326 shadow 4.1.4.2

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4.329 smtpclient 1.0.0

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L I C E N S E

SMTPclient -- simple SMTP client

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4.332 Socket6 0.23

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Socket6.pm and Socket6.xs are based on perl5.005_55-v6-19990721
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gai.h, getaddrinfo.c and getnameinfo.c are based on
ssh-1.2.27-IPv6-1.5 written by KIKUCHI Takahiro
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4.333 Sort-Versions 1.5

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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!

4.334 sshfs-fuse 2.5

4.334.1 Available under license :

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4.335 Storable 2.21

4.335.1 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.
#
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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
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Thanks to (in chronological order):

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Ulrich Pfeifer <pfeifer@charly.informatik.uni-dortmund.de>
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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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VMSperlers
Yitzchak Scott-Thoennes <sthoenna@efn.org>

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4.336 strace 4.5.20

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4.337 stunnel 4.56

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```

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4.343 Sys-Hwloc/examples subpart 0.1

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4.344 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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4.345 sysfsutils 2.1.0

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4.349 sysvinit 2.88dsf

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The of the start-stop-daemon

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*
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4.350 tar 1.27.1

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4.352 tar-1.15.1 1.15.1

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The End

4.354 tcp_wrappers 7.6

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```
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4.355 tcsh 6.15.00

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```
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* SUCH DAMAGE.
*/
/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config
/****************** System dependant compilation flags ****************/
/*
* POSIX This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS This system supports the optional IEEE Std 1003.1-1988 (POSIX)
*  job control facilities.
*/
#undef POSIXJOBS

/*
* VFORK This machine has a vfork().
*  It used to be that for job control to work, this define
*  was mandatory. This is not the case any more.
```

```
*  If you think you still need it, but you don't have vfork,
*  define this anyway and then do #define vfork fork.
*  I do this anyway on a Sun because of yellow pages brain damage,
*  [should not be needed under 4.1]
*  and on the iris4d cause SGI's fork is sufficiently "virtual"
*  that vfork isn't necessary.  (Besides, SGI's vfork is weird).
*  Note that some machines eg. rs6000 have a vfork, but not
*  with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
* BSDJOBS You have BSD-style job control (both process groups and
*  a tty that deals correctly
*/
#define BSDJOBS

/*
* BSDTIMES You have BSD-style process time stuff (like rusage)
*  This may or may not be true.  For example, Apple Unix
*  (OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*
* BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT

/*
* TERMIO You have struct termio instead of struct sgttyb.
*   This is usually the case for SYSV systems, where
*  BSD uses sgttyb. POSIX systems should define this
*  anyway, even though they use struct termios.
*/
#undef TERMIO

/*
* SYSVREL Your machine is SYSV based (HPUX, A/UX)
*  NOTE: don't do this if you are on a Pyramid -- tcsh is
*  built in a BSD universe.
*  Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
*  you are running. Or set it to 0 if you are not SYSV based
*/
#define SYSVREL 0

/*
* YPBUGS Work around Sun YP bugs that cause expansion of ~username
```

```
*  to send command output to /dev/null
*/
#undef YPBUGS

/****************** local defines *********************/

#endif /* _h_config */
```

4.357 telnet-OpenBSD 2.0020321E7

4.357.1 Available under license :

```
.\" $OpenBSD: telnet.1,v 1.28 2001/06/23 22:14:27 hin Exp $
.\" $NetBSD: telnet.1,v 1.5 1996/02/28 21:04:12 thorpej Exp $
.\"
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.\" SUCH DAMAGE.
.\"
.\" from: @(#)telnet.1 8.4 (Berkeley) 2/3/94
.\"
```

.Dd February 3, 1994
.Dt TELNET 1
.Os
.Sh NAME
.Nm telnet
.Nd user interface to the
.Tn TELNET
protocol
.Sh SYNOPSIS
.Nm telnet
.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.

4.358 Template-Toolkit 2.22

4.358.1 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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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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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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Version 1, February 1989

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<one line to give the program'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.

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Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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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

That's all there is to it!

4.359 termcap-compat 1.2.3

4.359.1 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)

COPYRIGHTS AND OTHER DELUSIONS
#
The BSD ancestor of this file had a standard Regents of the University of
California copyright with dates from 1980 to 1993.
#

```
# 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
# graffiti -- it's legally dubious, ethically bogus, and patently ridiculous.
#
# This file deliberately has no copyright.  It belongs to no one and everyone.
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/* Declarations for termcap library.
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```

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Version 2, June 1991

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4.360 Test-Deep 0.11

4.360.1 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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4.361 Test-Fatal 0.0080

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<signature of Ty Coon>, 1 April 1989
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The End

4.362 Test-NoWarnings 1.04

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4.363 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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4.364 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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notice like this when it starts in an interactive mode:

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4.366 Text-CSV 1.16

4.366.1 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!

4.367 Text-Glob 0.09

4.367.1 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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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/
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<signature of Ty Coon>, 1 April 1989
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4.368 Text-Markdown 1.000031

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Ty Coon, President of Vice

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4.371 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>

4.372 threadpool 0_2_5

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4.373 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!

4.374 time 1.7

4.374.1 Available under license :

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The End

4.377 TimeDate 1.2

4.377.1 Available under license :

```
--- #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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```
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Gnomovision 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
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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
```

That's all there is to it!

4.378 tomcat-connectors 1.2.40

4.378.1 Available under license :

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and semantics are as close as possible to those of the Perl 5 language.

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Written by: Philip Hazel <ph10@cam.ac.uk>

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```
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```
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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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```

```
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#

#
# 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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L<http://github.com/nothingmuch/try-tiny/>

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4.386 User-Utmp 1.8

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The End

4.387 util-linux 2.24

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4.388 util-linux/libuuid 2.24

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4.389 UUID-Tiny 1.04

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4.390 vim 7.4

4.391 vmxnet3 1.2.0.0-k

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4.392 w3m 0.4

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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 */
```

4.393 wget 1.16.3

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*
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*

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 <f20d86b70607200240x2a6f7b0as68daf43b2eef6a56@mail.gmail.com>

editcap.c:
merge.c:
mergecap.c:
 Wireshark terms, according to wireshark-dev@, message-id:
 <c9a3e4540607210110v50758766wf272c4e6c74d48f3@mail.gmail.com>

epan/epan.c:
epan/exceptions.h:
epan/dfilter/gencode.h:
epan/dfilter/glib-util.c:
epan/dfilter/glib-util.h:
 Contributed by Gilbert Ramirez, he has been contacted, his other files are

under Wireshark terms, (message-id: <44C1EFA2.3050907@alum.mit.edu>)

epan/dissectors/packet-bootparams.h:
epan/dissectors/packet-mount.h:
epan/dissectors/packet-nfs.h:
epan/dissectors/packet-x11-keysym.h:
Corresponding .c files have GPL notices, authors have been contacted for
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epan/dissectors/packet-nlm.h: no license info
Wireshark terms, according to wireshark-dev@, message-id:
<c9a3e4540607221458j407d552ekf28309c494487a8b@mail.gmail.com>

gtk/win32-file-dlg.h:
Contributed by Gerald Combs, Wireshark author, no answer yet but there is no
reason why it would not have standard Wireshark terms. Message-id:
<44C1EFA2.3050907@alum.mit.edu>

epan/in_cksum.h:
BSD, like in_cksum.c, according to wireshark-dev@, message-id:
<44C1EFA2.3050907@alum.mit.edu>

epan/dissectors/packet-diameter-defs.h:
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snprintf.h:
no longer used, according to wireshark-dev@, but it was under GPL like .c
message-id: <c9a3e4540607200322j2225fdf8q8687b1b1fd13543a@mail.gmail.com>
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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
*
* $Id$
*
* Wireshark - Network traffic analyzer
* By Gerald Combs <gerald@wireshark.org>
```

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version: 0.40
abstract: SAX Driver for Expat
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4.408 XML-Simple 2.18

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4.411 xmlsec1 1.2.18

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==========

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4.413 yaml 0.1.2

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4.414 YAML-LibYAML 0.35

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4.415 YAML-Syck 1.07

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4.416 zeromq 4.0.4

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4.417 zip 3.0

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4.418 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010

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Jean-loup Gailly Mark Adler
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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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*/

4.419 zlib/contrib-ada subpart 1.2.5

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5.9 bcprov-jdk15 1.40

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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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5.34 curl 7.32.0

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Written by: Philip Hazel
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[PCRE]

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The basic library functions are written in C and are freestanding. Also
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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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[Misc C library code]

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 */
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[zlib]

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.3, July 18th, 2005

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 Jean-loup Gailly        Mark Adler
 jloup@gzip.org          madler@alumni.caltech.edu


 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
 (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/
```

[edoc, syntax_tools]

```
%% ====================================================================
```

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[leex]

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[eldap]

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5.46 guava 14.0.1

5.47 gwt-highcharts 1.3.0

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```
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*
*/
```

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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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*
**************************************************************************
*
* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
*
```

```
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*/
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*/
/*
* The p_MD5Encode() routine uses much code obtained from the FreeBSD 3.0
* MD5 crypt() function, which is licenced as follows:
* ----------
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* this stuff is worth it, you can buy me a beer in return. Poul-Henning Kamp
* ----------
*/

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
* status: public domain.

For the src/lib/expat-lite component:

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For the src/test/zb.c component:

```
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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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5.49 Hibernate ORM 4.2.8.Final

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5.51 httpclient 4.2

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5.54 httpcore 4.2

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5.55 httpcore 4.4.6

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```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <meta name="description" content="Home page of The Apache Software Foundation">

 <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
 <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
 <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
 <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
 <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
 <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
 <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
 <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
 <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
 <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
 <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
 <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
 <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
 <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
 <link rel="manifest" href="/favicons/manifest.json">
 <link rel="shortcut icon" href="/favicons/favicon.ico">
 <meta name="msapplication-TileColor" content="#603cba">
 <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
 <meta name="msapplication-config" content="/favicons/browserconfig.xml">
 <meta name="theme-color" content="#303284">

 <title>Apache License, Version 2.0</title>
 <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
```

```
rel='stylesheet' type='text/css'>
 <link href="/css/min.bootstrap.css" rel="stylesheet">
 <link href="/css/styles.css" rel="stylesheet">


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</head>

<body>
<!-- Navigation -->
<header>
 <nav class="navbar navbar-default navbar-fixed-top">
   <div class="container">
     <div class="navbar-header">
       <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
         <span class="sr-only">Toggle navigation</span>
         <span class="icon-bar"></span>
         <span class="icon-bar"></span>
         <span class="icon-bar"></span>
       </button>
       <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
     </div>
     <div class="collapse navbar-collapse" id="mainnav-collapse">
       <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a> &raquo <a
href="/licenses/">Licenses</a></div>
       <ul class="nav navbar-nav navbar-right">
         <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
         <li><a href="/foundation">Overview</a></li>
         <li><a href="/foundation/members.html">Members</a></li>
         <li><a href="/foundation/how-it-works.html">Process</a></li>
         <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
         <li><a href="/foundation/glossary.html">Glossary</a></li>
         <li><a href="/foundation/preFAQ.html">FAQ</a></li>
         <li><a href="/foundation/contact.html ">Contact</a></li>
          </ul>
         </li>
   <li><a href="/index.html#projects-list">Projects</a></li>
     <li class="dropdown">
```

```
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
        <li><a href="http://people.apache.org/">Overview</a></li>
        <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
        <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
        <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
        <li><a href="http://planet.apache.org/">Planet Apache</a></li>
          </ul>
         </li>
         <li class="dropdown">
           <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
           <ul class="dropdown-menu" role="menu">
             <li><a href="/foundation/getinvolved.html">Overview</a></li>
         <li><a href="http://community.apache.org/">Community Development</a></li>
                 <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
         <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
           </ul>
      </li>
         <li><a href="/dyn/closer.cgi">Download</a></li>
         <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
         <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
         <li><a href="/foundation/contributing.html">Donations</a></li>
         <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
         <li><a href="/foundation/thanks.html">Thanks</a></li>
          </ul>
         </li>
        </ul>
      </div>
    </div>
  </nav>
</header>
<!-- / Navigation -->
<div class="container">
 <div class="row">
   <div class="col-md-9 col-sm-8 col-xs-12">
     <img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
  <a href="http://apache.org/foundation/contributing.html" title="Support Apache" style="margin-left: 150px;">
   <img src="/images/SupportApache-small.png" style="height: 150px; width: 150px;">
  </a>
   </div>
   <div class="col-md-3 col-sm-4 col-xs-12">
     <div class="input-group" style="margin-bottom: 5px;">
    <script>
 (function() {
```

```
  var cx = '005703438322411770421:5mgshgrgx2u';
  var gcse = document.createElement('script');
  gcse.type = 'text/javascript';
  gcse.async = true;
  gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
      '//cse.google.com/cse.js?cx=' + cx;
  var s = document.getElementsByTagName('script')[0];
  s.parentNode.insertBefore(gcse, s);
 })();
</script>
   <gcse:searchbox-only></gcse:searchbox-only>
  </div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
  </div>
 </div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
 visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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<footer class="bg-primary">

        <h5 class="white">Community</h5>
        <ul class="list-unstyled white" role="menu">
    Overview
    Conferences
    Summer of Code
    Getting Started
    The Apache Way
    Travel Assistance
    Get Involved
    Community FAQ
    Memorials

    <h5 class="white">Innovation</h5>
        <ul class="list-unstyled white" role="menu">
    Incubator
    Labs
    Licensing
    Licensing FAQ

```
  <li><a href="/foundation/marks/">Trademark Policy</a></li>
  <li><a href="/foundation/contact.html">Contacts</a></li>
      </ul>
 </div>

 <div class="col-sm-2">
  <h5 class="white">Tech Operations</h5>
     <ul class="list-unstyled white" role="menu">
   <li><a href="/dev/">Developer Information</a></li>
   <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
   <li><a href="/security/">Security</a></li>
   <li><a href="http://status.apache.org">Status</a></li>
   <li><a href="/foundation/contact.html">Contacts</a></li>
     </ul>
 </div>

 <div class="col-sm-2">
  <h5 class="white">Press</h5>
    <ul class="list-unstyled white" role="menu">
  <li><a href="/press/">Overview</a></li>
  <li><a href="https://blogs.apache.org/">ASF News</a></li>
  <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
  <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
  <li><a href="/press/#contact">Contacts</a></li>
    </ul>
 </div>

 <div class="col-sm-2">
  <h5 class="white">Legal</h5>
    <ul class="list-unstyled white" role="menu">
  <li><a href="/legal/">Legal Affairs</a></li>
  <li><a href="/licenses/">Licenses</a></li>
  <li><a href="/foundation/marks/">Trademark Policy</a></li>
  <li><a href="/foundation/records/">Public Records</a></li>
      <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
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  <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
  <li><a href="/foundation/contact.html">Contacts</a></li>
    </ul>
 </div>

 <div class="col-sm-1">
 </div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
 <div class="col-lg-12">
```

```
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   </div>
  </div>
 </div>

</footer>

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<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```


5.56 httpd 2.4.7

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```

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```
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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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)

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5.60 jackson-core 2.4.0

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5.62 jackson-core-asl 1.9.9

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5.64 jackson-databind 2.5.2

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5.65 jackson-jaxrs-json-provider 2.0.0

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5.66 jackson-mapper-asl 1.9.9

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5.70 jaxb-api 2.2.7

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```
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5.78 jna 4.1.0

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5.80 jnr-unixoscket 0.3

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5.82 JQuery 1.7.2

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5.88 jsr311-api 1.1.1

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5.91 jul-to-slf4j 1.7.7

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5.92 jzmq 3.1.0

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5.93 jzmq/autogen gplv3 subpart 3.1.0

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5.98 libpcap 1.1.1

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5.100 log4j 1.2.16

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5.104 luajit 2.0.2

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5.106 mariadb-java-client 1.1.7

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5.107 meld3 1.0.2

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5.108 mongo-java-driver 2.12.3

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For getting better compression ratios when you are compressing data with long repeated sequences or compressing data that is similar to other data, while still compressing fast, you might look at first using BMDiff and then compressing the output of BMDiff with Snappy.

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zlib.h -- interface of the 'zlib' general purpose compression library
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5.110 mx4j-tools 3.0.1

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5.111 nmap 6.01

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Nmap and the other tools distributed with it. What follows is a
description of each third-party package. At the end of this file is the
license of each. The license of Nmap itself is in the COPYING file.

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:
o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU
  LGPL 2, a copy of which is in the file licenses/LGPL-2.
  http://www.gtk.org/
o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the
  MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.
  http://www.cairographics.org/
o libgailutil: Accessibility support for GTK+.
o libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.
  http://www.libpng.org/ http://www.ijg.org/ http://www.libtiff.org/
o zlib and bzip2: compression libraries.
  http://www.zlib.org/ http://www.bzip.org/
o Expat: XML parser library.
  http://expat.sourceforge.net/
o fontconfig: font configuration library.
  http://www.fontconfig.org/
o FreeType: font rendering library.
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o libxml2: XML parsing library.
  http://xmlsoft.org/
o SQLite.
  http://www.sqlite.org/
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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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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Written by: Philip Hazel
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5.113 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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```
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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
* project.
* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
* size keys (Implemented RFC5649)
*/
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5.116 postgresql 9.2-1002

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5.117 pyasn1 0.1.9

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5.118 RabbitMQ 3.6.6

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JMS Client for Pivotal RabbitMQ 1.4.6 GA

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5.120 redis 3.0.7

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5.121 scala-library 2.9.1

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5.122 ScalaBeans 0.2

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5.130 slf4j-log4j12 1.7.7

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5.140 spring-webmvc 3.2.4

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5.142 sqlite-jdbc 3.8.7

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5.143 strongswan 5.0.1

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5.149 Tcpdump 4.0.0

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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd

- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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Wen Quan Yi Micro Hei

Release Notes

Summary:

Author : WenQuanYi Project Contributors
Webpage : http://wenq.org/en/ or http://wqy.sourceforge.net/en/
Font Name: WenQuanYi Micro Hei
Version : 0.2.0-beta (Big-Bang)
Release : 0
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I. About this font

WenQuanYi Micro Hei font family is a Sans-Serif style (also known as Hei, Gothic or Dotum among the Chinese/Japanese/Korean users) high quality CJK outline font. It was derived from "Droid Sans Fallback", "Droid Sans" and "Droid Sans Mono" released by Google Corp. This font package contains two faces, "Micro Hei" and "Micro Hei Mono", in form of a True-Type Collection (ttc) file. All the unified CJK Han glyphs, i.e. GBK Hanzi, in the range of U+4E00-U+9FC3 defined in Unicode Standard 5.1 are covered, with additional support to many other international languages such as Latin, Extended Latin, Hanguls and Kanas. The font file is extremely compact (~5M) compared with most known CJK fonts. As a result, it can be used for hand-held devices or embedded systems, or used on PC with a significantly small memory footprint. Because both font faces carry hinting and kerning instructions for Latin glyphs, they are the excellent choices for desktop fonts.

II. Development History

The original Droid Sans Fallback font contain 16,000 Unified Han glyphs, and was officially released by Google under Apache2 license on Dec. 9, 2008 [2]. With a Javascript-based web interface, Fontopia(TM) [1], developed by mozbug and Qianqian Fang, the WenQuanYi contributors had completed over 10,000 new glyphs by combining the spline contours from the existing Droid Han glyphs. By the end of 2008, project phase-1 had almost completed, and phase-2 for CJK Extension A (U+3400-U+4DB5) was brought online on Dec. 29, 2009. A review panel was formed to reinforce the quality of all submitted glyphs [3]. In Jan. 2009, the reviewers had redone over 2000 Hanzi and completed all the missing characters. The nightly-build font has become online since Jan. 16. As of Feb. 2009, there has been over 5500 CJK Extension A Han glyphs completed, which led this font toward a complete GB18030 coverage.

In this font, we incorporated the high quality Latin glyphs from "Droid Sans" and "Droid Sans Mono", which contain not only a better coverage but also the additional hinting and kerning information. The EM of MicroHei and MicroHeiMono fonts were unified to 2048 to retain all the advanced typesetting features.

III. Credits

We cordially thank Google(TM) for generously releasing Droid fonts to public under an open-source license. Google purchased the font from Ascenders Corp. (which was originally designed by a Chinese company).

The project for extending the Droid fonts is based on the web-based glyph-composing applet [1], created by mozbug and Qianqian Fang jointly. They are constantly improving this application targeting at a web-based collaborative font development environment.

Over a thousand anonymous contributors have participated the project; they submitted over 10,000 new Hanzi glyphs and many modifications. The full update history of the glyphs can be found at [4].

The key members of the review panel, i.e. lsz, FangQ, kmc, Xhacker, philacorns, and an "anonymous" (as requested) contributor, had spent significant amount of efforts to redesign nearly half of the submitted glyphs. We appreciate the incredible effort from this team to make this font available. The detailed review credit can be found at [3]

IV. Language Coverage

The following table is based on the locale data provided by fontconfig (generated by langcover.pl from Dejavu Project http://dejavu.sourceforge.net/wiki/index.php/Font_utilities).

Locale		MicroHei
aa	Afar	100% (62/62)
ab	Abkhazia	100% (90/90)
af	Afrikaans	100% (69/69)
am	Amharic	(0/264)
ar	Arabic	(0/125)
as		(0/89)
ast	Asturian	100% (72/72)
ava	Avaric	100% (67/67)
ay	Aymara	100% (60/60)

az	Azerbaijani	98% (146/148)
az-ir	Azerbaijani in Iran	(0/130)
ba	Bashkir	100% (82/82)
bam	Bambara	90% (54/60)
be	Byelorussian	100% (68/68)
bg	Bulgarian	100% (60/60)
bh	Bihari (Devanagari script)	(0/68)
bho	Bhojpuri (Devanagari script)	(0/68)
bi	Bislama	100% (58/58)
bin	Edo or Bini	100% (78/78)
bn	Bengali	(0/89)
bo	Tibetan	(0/95)
br	Breton	100% (64/64)
bs	Bosnian	100% (62/62)
bua	Buriat (Buryat)	100% (70/70)
ca	Catalan	100% (74/74)
ce	Chechen	100% (67/67)
ch	Chamorro	100% (58/58)
chm	Mari (Lower Cheremis / Upper Cheremis)	100% (76/76)
chr	Cherokee	(0/85)
co	Corsican	100% (85/85)
cs	Czech	100% (82/82)
cu	Old Church Slavonic	100% (103/103)
cv	Chuvash	100% (74/74)
cy	Welsh	100% (78/78)
da	Danish	100% (70/70)
de	German	100% (60/60)
dz	Dzongkha	(0/95)
el	Greek	100% (70/70)
en	English	100% (73/73)
eo	Esperanto	100% (64/64)
es	Spanish	100% (67/67)
et	Estonian	100% (64/64)
eu	Basque	100% (56/56)
fa	Persian	(0/129)
fi	Finnish	100% (63/63)
fj	Fijian	100% (52/52)
fo	Faroese	100% (68/68)
fr	French	100% (85/85)
ful	Fulah (Fula)	87% (54/62)
fur	Friulian	100% (66/66)
fy	Frisian	100% (75/75)
ga	Irish	82% (66/80)
gd	Scots Gaelic	100% (70/70)
gez	Ethiopic (Geez)	(0/218)
gl	Galician	100% (66/66)
gn	Guarani	100% (70/70)
gu	Gujarati	(0/78)

gv Manx Gaelic 100% (54/54)
ha Hausa 86% (52/60)
haw Hawaiian 98% (62/63)
he Hebrew (0/27)
hi Hindi (Devanagari script) (0/68)
ho Hiri Motu 100% (52/52)
hr Croatian 100% (62/62)
hu Hungarian 100% (70/70)
hy Armenian (0/77)
ia Interlingua 100% (52/52)
ibo Igbo 100% (58/58)
id Indonesian 100% (54/54)
ie Interlingue 100% (52/52)
ik Inupiaq (Inupiak, Eskimo) 100% (68/68)
io Ido 100% (52/52)
is Icelandic 100% (70/70)
it Italian 100% (73/73)
iu Inuktitut (0/161)
ja Japanese 99% (6526/6538)
ka Georgian (0/33)
kaa Kara-Kalpak (Karakalpak) 100% (78/78)
ki Kikuyu 100% (56/56)
kk Kazakh 100% (77/77)
kl Greenlandic 100% (81/81)
km Khmer (0/70)
kn Kannada (0/80)
ko Korean 100% (2443/2443)
kok Kokani (Devanagari script) (0/68)
ks Kashmiri (Devanagari script) (0/68)
ku Kurdish 100% (64/64)
ku-ir Kurdish in Iran (0/32)
kum Kumyk 100% (66/66)
kv Komi (Komi-Permyak/Komi-Siryan) 100% (70/70)
kw Cornish 96% (62/64)
ky Kirgiz 100% (70/70)
la Latin 100% (68/68)
lb Luxembourgish (Letzeburgesch) 100% (75/75)
lez Lezghian (Lezgian) 100% (67/67)
ln Lingala 92% (75/81)
lo Lao (0/65)
lt Lithuanian 100% (70/70)
lv Latvian 100% (78/78)
mg Malagasy 100% (56/56)
mh Marshallese 100% (62/62)
mi Maori 96% (62/64)
mk Macedonian 100% (42/42)
ml Malayalam (0/78)
mn Mongolian (0/130)

mo	Moldavian	98% (126/128)
mr	Marathi (Devanagari script)	(0/68)
mt	Maltese	100% (72/72)
my	Burmese (Myanmar)	(0/48)
nb	Norwegian Bokmal	100% (70/70)
nds	Low Saxon	100% (59/59)
ne	Nepali (Devanagari script)	(0/68)
nl	Dutch	100% (83/83)
nn	Norwegian Nynorsk	100% (76/76)
no	Norwegian (Bokmal)	100% (70/70)
ny	Chichewa	100% (54/54)
oc	Occitan	100% (70/70)
om	Oromo or Galla	100% (52/52)
or	Oriya	(0/79)
os	Ossetic	100% (66/66)
pa	Punjabi (Gurumukhi script)	(0/63)
pl	Polish	100% (70/70)
ps-af	Pashto in Afghanistan	(0/49)
ps-pk	Pashto in Pakistan	(0/49)
pt	Portuguese	100% (83/83)
rm	Rhaeto-Romance (Romansch)	100% (66/66)
ro	Romanian	96% (60/62)
ru	Russian	100% (66/66)
sa	Sanskrit (Devanagari script)	(0/68)
sah	Yakut	100% (76/76)
sco	Scots	92% (52/56)
se	North Sami	100% (66/66)
sel	Selkup (Ostyak-Samoyed)	100% (66/66)
sh	Serbo-Croatian	100% (76/76)
si	Sinhala (Sinhalese)	(0/77)
sk	Slovak	100% (86/86)
sl	Slovenian	100% (62/62)
sm	Samoan	98% (52/53)
sma	South Sami	100% (60/60)
smj	Lule Sami	100% (60/60)
smn	Inari Sami	100% (68/68)
sms	Skolt Sami	87% (70/80)
so	Somali	100% (52/52)
sq	Albanian	100% (56/56)
sr	Serbian	100% (76/76)
sv	Swedish	100% (68/68)
sw	Swahili	100% (52/52)
syr	Syriac	(0/45)
ta	Tamil	(0/48)
te	Telugu	(0/80)
tg	Tajik	100% (78/78)
th	Thai	1% (1/87)
ti-er	Eritrean Tigrinya	(0/256)

ti-et Ethiopian Tigrinya (0/282)
tig Tigre (0/221)
tk Turkmen 100% (74/74)
tl Tagalog (0/19)
tn Tswana 100% (56/56)
to Tonga 98% (52/53)
tr Turkish 100% (70/70)
ts Tsonga 100% (52/52)
tt Tatar 100% (76/76)
tw Twi 91% (67/73)
tyv Tuvinian 100% (70/70)
ug Uighur (0/125)
uk Ukrainian 100% (72/72)
ur Urdu (0/145)
uz Uzbek 100% (68/68)
ven Venda 83% (52/62)
vi Vietnamese 98% (191/194)
vo Volapuk 100% (54/54)
vot Votic 100% (62/62)
wa Walloon 100% (70/70)
wen Sorbian languages (lower and upper) 100% (76/76)
wo Wolof 100% (66/66)
xh Xhosa 100% (52/52)
yap Yapese 100% (58/58)
yi Yiddish (0/27)
yo Yoruba 91% (109/119)
zh-936 99% (21873/21920)
zh-cn Chinese (simplified) 99% (6754/6765)
zh-hk Chinese Hong Kong Supplementary Character Set 99% (2212/2213)
zh-mo Chinese in Macau 99% (2212/2213)
zh-sg Chinese in Singapore 99% (6754/6765)
zh-tw Chinese (traditional) 99% (13051/13063)
zu Zulu 100% (52/52)

V. About "WenQuanYi Project"

The "Wen Quan Yi" Project [5] was founded by Qianqian Fang [6] in Oct. 2004. The goal of this project is to create a web-based collaborative environment for open-source type-face development. The initial focus of the project is to create high quality bitmap character glyphs and outline fonts for all 70,000+ CJK characters currently encoded by the Unicode Consortium. Some of the fonts released by this project have been widely used as the default Chinese desktop fonts by main-stream GNU/Linux distributions.

The Wen Quan Yi Project uses wiki [5] as the primary development tool for glyph creation, documentation and coordinations. Wen Quan Yi

wiki also supports glyph version control and nightly build.

VI. Links

[1] http://wenq.org/index.cgi?Fontopia(cn)
[2] http://android.git.kernel.org/?p=platform/frameworks/base.git;a=commit;h=1a2d9dbe9c6f54c5e0dc26386dc01df1d18073ad
[3] http://wenq.org/dev/index.cgi?BigBang_TASK
[4] http://wenq.org/WQYHistory.html.gz
[5] http://wenq.org/en/
[6] http://nmr.mgh.harvard.edu/~fangq/

VII. Appendix

Appendix A.

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5.154 waagent.py 2.1.6

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6.2 ActiveMQ 5.2

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-- activemq-web
==========
== For the behaviour.js library ==
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== For the common.js library ==
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--activemq-web-console

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== For the style.css library ==
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-- activemq-web
==========
== For the behaviour.js library ==
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package org.apache.commons.codec;

/**
* 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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- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_web_services_1_4.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd

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6.17 apache-log4j 1.2.15

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6.20 asm 3.1

6.21 asm-commons 5.0.1

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6.29 Base64Encoder.java 1.3

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```
*/
```

6.30 Base64FormatException.java 1.1

6.30.1 Available under license :

```
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6.31 bcprov-jdk15 1.40

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6.33 camel-jaxb 1.4

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6.63 EhCache 1.5

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6.66 Geoip api java 1.2.9

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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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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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6.88 jackson-core-asl 1.9.9

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6.98 jackson-mapper-asl 1.9.9

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com/sun/xml/xsom/impl/util/Uri.java
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```

6.116 jaxen 1.1.1

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6.117 Jaybird JDBC Driver 2.1.6

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6.118 jcl-over-slf4j 1.7.7

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individuals on behalf of the JDOM Project and was originally
created by Jason Hunter <jhunter_AT_jdom_DOT_org> and
Brett McLaughlin <brett_AT_jdom_DOT_org>.  For more information
on the JDOM Project, please see <http://www.jdom.org/>.

*/

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();
  }

}
```

6.123 Jersey REST 1.1.4.1 :1

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=N/w/
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Full name: Julian Anthony Fox Gosnell
E-Mail: jules@coredevelopers.net
Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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I/stizRWWZZkeLbcglzdQCE=
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Mailing Address: 4676 Admiralty Way, Suite 520
Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
E-Mail: gordon.king@simulalabs.com
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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

Schedule A

Name	Date added
Simone Bordet	12 September 2006

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iD8DBQFIZT2ToF6+5lbz4BsRAs3wAJ9puXC26Nr8nhFvTZ9oNwxDFV/DVACgnC8O
VFUWPZrfLOJesKa0/rYNJlM=
=jC7I
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iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eooNr2oN59WZVitJExGJjUvKgCfaKji
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Version: GnuPG v1.4.1 (GNU/Linux)

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5hdry6ZjXRcUhQEyNz2F/T4=
=I4Co
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

javax.servlet:javax.servlet-api
javax.servlet.jsp:javax.servlet.jsp-api
org.glassfish.web:javax.servlet.jsp
org.glassfish.web:javax.servlet.jsp
org.glassfish.web:javax.servlet.jsp.jstl
org.eclipse.jetty.orbit.javax.servlet.jsp.jstl

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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 mso-generic-font-family:swiss;
 mso-font-pitch:variable;
 mso-font-signature:553679495 -2147483648 8 0 66047 0;}
/* Style Definitions */
p.MsoNormal, li.MsoNormal, div.MsoNormal
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 margin-bottom:.0001pt;
 mso-pagination:widow-orphan;
 font-size:12.0pt;
 font-family:"Times New Roman";
 mso-fareast-font-family:"Times New Roman";}
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 mso-margin-top-alt:auto;
 mso-margin-bottom-alt:auto;
 margin-left:0in;
 mso-pagination:widow-orphan;
 font-size:12.0pt;
 font-family:"Times New Roman";
 mso-fareast-font-family:"Times New Roman";}
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 margin-bottom:.0001pt;
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 font-size:8.0pt;
 font-family:Tahoma;
 mso-fareast-font-family:"Times New Roman";}
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div.Section1
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

6.135 jna-platform 4.1.0

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6.136 Joda Time 2.2 :Albani SR1

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6.137 joda-time 2.9.4

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6.139 jsoup 1.7.2

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6.144 jul-to-slf4j 1.7.7

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6.146 Log4cpp 0.2.5

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6.147 log4j-api 2.3

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6.148 log4j-core 2.3

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Includes lib/servlet-api-2.4.jar from Apache Tomcat

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6.153 mariadb-java-client 1.1.7

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6.156 mongo-java-driver 2.12.3

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6.157 mx4j-tools 3.0.1

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6.158 mysql-connector-java 5.1.30

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6.159 net-snmp 5.1.1

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6.164 ParaNamer Core 2.3

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6.165 perl 5.8.7

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6.166 PNG Encoder 4

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com.keypoint.PngEncoder - a Java class to convert Image objects to
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6.167 postgresql 9.4-1201-jdbc4

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6.168 protobuf 2.4.1

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6.169 quartz 1.8.0

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6.170 regexp 1.1

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6.173 RockSaw 0.6.2

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6.174 scala-library 2.9.1

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6.175 ScalaBeans 0.2

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6.176 servlet-api 2.5

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6.177 slf4j 1.5.2

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6.178 slf4j 1.7.5

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6.179 slf4j-api 1.7.7

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6.180 slf4j-api 1.7.12

6.181 slf4j-api_ASLv2.0 1.7.7

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6.182 slf4j-log4j12 1.7.7

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6.185 SNMP4J 2.2.5

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6.192 spring-jdbc 4.0.5.RELEASE

6.193 spring-jms 4.0.5.RELEASE

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6.196 spring-webmvc 3.2.4

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6.197 sqlite-jdbc 3.8.7

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=== License Key

The web console requires a valid license key before it will allow access to screens.
The user is prompted automatically to enter a valid license if one is missing, or it can updated from the configuration screen.
The license key contains a group of fields to define how the software is licensed for use.

License Info:: A description of the license type.
Holder:: The company name of the license holder.
Effective Date:: Date and time when the license will become valid.
Expiration Date:: Date and time when the license will no longer be valid.
Max Nodes:: The maximum number of nodes that can be created for synchronization.
Max Maintenance:: The end date and time for maintenance and support. Defaults to expiration date if not present.

The license key is a block of encoded text that is sent to the user over email, or it can be retrieved from the http://support.jumpmind.com/[Support Center]. When an installed license key expires, the web console will require a new valid key before allowing access, but data synchronization and command line access will continue to function normally.

ifdef::pro[]
image::configuration/license-key.png[]
endif::pro[]
PNG

IHDR C;|iCCPICC Profile(c``*I,(aa``+)
rwRR` ` \\|/Jy|6rV%:wJjq2#Rd:E%@ [>dd!
vVdKIa[)@.ERI90;@r0x00(030X228V:Teg(8C6U9?$HG3/YOGg?Mg;_`K})<~km
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    <rdf:Description rdf:about=""
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`2[-
i>|i,F0y~G;kqXRC!GQ/_~4\XGm^;s6S-z(g_>li|gq
obe"4{%u\osLOa7p+UP!>K4?@]<f$JD%|EU}8sD,?wG!?q!c:~QdHK,iw7YX/@/_y_Gc6|d7b9-
Sss*tPvv'[d3?fmM>8')

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2;2S)~;U
K/R#JUS:uMJ1qh?k
CA`]n>-b
+ 1?JL1H#:X`hx "}Q[YA=CqN5I_ij/\ynvX'4olq0:/Dk,ENUr2^X^14SfAH<bmUGO1i25(/@5`xTZ}q
Z~{'Lgp(<9#,7~O\@>rguaf+~$};,Tm"r*n wn7p@o/B{/}>;Be3+1}t{[\SW30[`\&o@|lR+
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'&m=A=MI(HR%Vda
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C?;_r"<g*?%{GsFzLp'H:|y]b(EW;n;V$pixQTY_<crQ<^$~l{|u*d*~OW7,^te]xC4(-
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H\c
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;4jB,C3"A]Y*.~tN$(4I$o"Iq#.Y}XIl} *B LT"LGAg"?p= xTfT!S&OA~Sq
lyy\RdbL7q
A `07?>{]~m>
LRx#xq^:.fKP-~n)C%_z+c8sEeA&l b
Ex#6ox,
FH]p_Y@ #'1r1td#=}=$8jG/%\p'N5ES_`+\i4|\eXzN[) `0;^}IB<]h!S=n.#a-hW76j=R h%76n\{GP/vm,qA..[r SGs5 R
;\<??5F>Z9k/+ED;\,_AbU!/3KY{9i=eO/}NL/= (r-N)0FWGC6#`A `xw `wuc,
ij!#@~l_lxi'|4n{bi&)
Ym
}dL
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Az}SQhP+:06"1)3y\HS;c$2LE@Yr^A `0g*?MzU'zL9q#*\7(-
ob|}'~www^Ymr{(""ZyH~V|]Ja:VqT9q+fDCgq6Zitwt(mHl41Y-9Qa)y
A `0?$EC{?3KC,QeY\8f]D.
,dxV ue\w HZ(3w0rxOHWr jYV~H:2ZkWa71ytf@Ly#EGA `0!L[us_0~
]1vuP8:H .^U\Y)\S
2{cd"y":*~&j0A `xO#`!Z-J:(d^d+O,DT2b$]\d\OGazFe9*Bz|cQo0A pR,CE&|C68#!I\c*3ax
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CGu7|x*J1@-P1MxW+LGw$>D~/A,#[gBZ_72hp#D_m\!uF%n=Q`hb)~H -#6N8m{D SxS(y,_dff{\2[wOGnj2.6.-
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~+=7;1w`au:bZ(yeC&o&L4_|Tg?XeXXa?BcW^#j2G%7}sJB8GwZuR#s# 7e1UN^';0=Y
THY$G1&b0h!xi~ag'#'Al,Q `0tL=%b{0[xOl49w lCQE
&M.B}8/@w>n\9r:omB#"}Yx.#^pmHkD#x#
EXb>KPZQRNxAox-\9z|y+eGrte rZS*5M? e0P>U2T=EI6]i(`0A"kxa\UG
A `5#6@Gq_llYZ:1}}[tuc3pH"edt s=H_M% D#H@Fqii;}6r;vA4k,znx,{U~A#5N_S/AUIhz]M'*KdhuL
MkvrJPubuUsRm=vd8e1S:]?ToXSX3PC\>BT>]'-[rIKyv)?N}mT;Ii*eV}S|!`pt`fg[jaI)uuS3kRuPlyI1M__)T-v.?
G8]tv\!yw'$%iIrRklUpPiRxkcFfGTdhg`P ZKYr.AG$F'- e+YvA K]U)
Nwi.A- ,inBUI]UZ!Yuvs> .QV,Irp V04P7wW(5_D e)rU;?*W%$_sE#v:whl(aQ>6wJ@rTdKo-[dAiQ,I"ZU
|lzwY:)*t*fLs0wjRX0av!, |[=BwGx0|saNfq*GCD`b<X7`_5cL?wpV{^]D@)"`75?h1F["Rml;s}{w]l3w9swru.8
:!QiN zGp
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}*
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)qq)]_R)"rG@;3uGKGh4F@#82bd)GPkP#BvF@#~l
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~V9
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"1'J}
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p)'V}_~_f<gu_=2](>(|!f!J?r~v/sP'qWne9
e*glu<=thhh{_ZF@#50VtA BlFQDDE~Z 88ipUN .M d=cN>#G
.}qa>
v
MnF*"qh'$'dcvS2 |>5e7^:O,/)R#WL'/^^x[oEf"<|5]2K-
}wux]q$<r?DAj|%h4F@#80VtN.62)up`#{"##`8\f_7#wH7I?GpL1M7{0ST!N:T4j(zZT-
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;WA}s*

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jO
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5V.FB ! ;!n>!,?uwPC;_J8mGe(HG niF{NIi-&o\=uTSy\@(`]Z+I
l b{P*CK%(>hGCu5 #sDE/=OA
}ZM NEn vE+h WPTLUyGjb1$f
ADP;H'IfIHP<x~xV/1Qg^J[E\D:/[5V
Ga
J{x 7~$!t`*y(^[<QA]z#
hxx,K<zO]T3QD%Rlg0
Bqpan f8(,s Np_$tdhXD;&L,=Q;rjg!5u
Cl',\-+HH`3_Q]Q/MA)=cm; Ep*_5,
_eu_#D.]UXy7iX)_m,k-1 W+E`}%sG:o#1'X$ 0VWsgz+<hXjI_Io}
J~wY&+|
g]| .*x&{3S?AgX
:EiO/?+
FFq}*YO=%13TWrUTOJCVxghD>hDP%"PTX&eF s_ifR=YNw4jLoKR.gaGoB1GL43R*FN0:>Yy?
KY)@to^l-5;gFnBn88_Xq+6|1f-:fG}uA;K"i'am^_ Lg`Dbyk(;:"m/H}|&W#4)]sFcxflZN[To
A+!9)wZaxgaHN];AQ[XL%d& Sw&]yXX9[>}J"5 4_N1"TWZTL#9`FTp:T$4awFBDdnO/l!0o*GSNV
=3BLm,bE}Dvlv/Fr:5\
WV CD&2cP'%y*q3eU=rQ~$]A9f)[ZqH]H@R9 ';OBON2aIVll14MMM< (H;a9 a8Y~'tsZx:pf3xV?&du8+7)
2^OO#$q~;6&1[?dlrGi}-w}DURfWRXVVJ"zh%Z-cnf8{b:u(=5bINil-
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,G"*
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GYr}(n@c~I=bAhkRXPSH5n
Gy$MuN_,= #[>h?h4!#)Lrrvic]k'j- bJ[[.Um]-E?VvKAq2[KGJ`;d!CBm75GB)af=J1A]u&R[!H5 4F@#
SUUD3RLRAt~aDKqvcfk)u8Ovw5y/93abEQW:l/b;KSt:]Xl.n-WtJ9eiaBSgP_S-
GYjL(RTnj7|u3io3z|5m*/7Q*HYz;J
6Z)
UxB7PUo|45-<i7>|6ojU`p3
fjGw m2??3CUeF;6{lo'IXt6^[syx5p| y%U^y[jGdF=&U+M(z;G@^4F`?/
Exq#'_>kI SCF#?al%|^
KHgtAsbgWvakTW1TXX 2[m=/q-7$F]zvu(]tIyYTNE/063HrxU`AfQFb5xGv{{ +w>l^RJ FVAQ}1RvZJ
dn_k<GLXQ
[po`WDe[4T?.2u3sEJ! l7BCvKs`S[s YZ0w[x-@M|;mgoa-0'wx%>(;^HyB;H4F@#p |Q4X&W=x#N,b
'%
w+aKLB|t5K;qQ5kv!*. QLL|ODR\aKVhYaY~7"<LEX>O3ff!-1\#"YMupd_K>RRQIH^T
1)1<Y(yP[S{tbp5cEb|,n*HKCmm
Z.$!&'Jv|i3f|rz
%m/o7vX;3&TjJDrBug0v)8&KP&X#@&Q.`J,)`I7Kj
AJr"VjP$$D8TWV@MIE}MBKHHPj)lOT(/:2Z!@\j:}+|E"=5Q -

|VWuLp)@|Gt>V>o*x,Lpb!N>IL@:>j@QqxY|r#Y?;ZxW5,aWn<C.4H$qWAU7P/0.HVvnJy=p{Jmf=OK)-
F@#<2,qKK)y&
=OCoS/PYGgfzi/kBB-nq3_Ln<>y!LdW;q`i/nBH]\#p+gUqxKuEH7aZ\zW >|g*s/qO.@V<yg=&D^d,FFo!>o>=t~q
k<.2cn>x.#Y79;NNpr`/ce>z?/j7GidY%|i)mDbS?n7WK? ?
zr2:-U7NC/NE
wlZVb]8w&W^YFy1h0=VmD\q`lO
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YoUyxR}']^9q4*/5`yd>Eb)7nBIml".]w }\[bO.Dy6Q-
+eKlr,_.AQuj6QUEb]6UIilot>xo@HR@h4#@#vqW;o6n>oG@0ej8|5<z0TDmS?3nI4zi*DRwS,/!\
wmpA<(nj
O|<wa25yC&.1W?8).p<GjH_?]}0J<Z.-s';<
QkM(vFmF:
Eq82<bO`gu=v.S><yN,Z-TwDo}\?
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W/y?zxBA8G +}f4v/)6@znr+X;xi3O-6-Di
C
y?FO:7B~dZd`>KjjFeD&N<K(,)Gjf2".7kBp1Un)Fee` o?/VqO=&Sb96j(6_v8"
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M{F+)G=ar30Erqm?Z6EQs%f&FjW@ xkX<
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LN*Xiek%_[qv,LT9d}~R0}hjh0)LkJ$}x&n9c&s0gi%W<q$5pI

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@Jr+@{TG/Z@nL>n>k&YJ{jl.8W8yp'GUz<q:b0 dNJ}hcIn'0}}jE~\>-%3brxJSt Y8^(
0.O#qT_
|-UWW$cza:t!&j1'9FIIxw06h l)Q#pU3#]3S[\9[R]|78f|2J?d(~,fF
]$ X2!^'`EX|3vVr.06v\)W!t7Y]+YQ+#FWF#*h42rYnl7qoG]
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ii<Im(DDG
/G}s`BGQ$_<%@?J5#Syv|ITj3!OIi(_{&.Z5'fqoG$ <"vXc9s}*%Fa;r{l\<EGWx-
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 CVT K<^NV

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[[@+PK;v.NbOAPuY
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F+rE/V+Wjda
'?+(Ohr2V+C!2J+~9b^a>;/No-+q^|v]]t4H&j&FXfvUndzq~K7N]M^->n}
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*~'7;iB}@Sy95(*vc'?E~yF:z7#3N1_@G1CcxtDxh$QSG ^xM.M;yi`\<%'N5:+.QIF`H'8Il|C=KYj%$SdF-
:o+h8<1/u\FqE};
3G`0VOR
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'u)"oH1yime5zJ!%| #zmU!T'u>
5X<|\+UpnaSC6}n>_o\
$+/1W\y%&F+fP#7&?3CqdPu\/x
&(~~*ls.? x!~ir>C@mDpK/a^L[x.^2w`x_ srB=+wRPz2=7!@@` 2x(S&[50VYX{0L9d^@?ht6`LSggVs.*
q]TjZh1"RHO\\Pe0Qt8a45 J+.!54bW.c)8! S6"d\#(wbgGr=cx,~` $2IqAh!W$8g.n.

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'T:(FZRjP
ZKagZlx} }sP!rX|:U=dD%8LsN)_^(u2K}5)5B% $0E,pH%ZBR18Q/oG@! f2
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@PY
~i>FXZQtfo*a<6<YzGahg1Vm2oxpef7}Yp1qSw/C`?3,9(AO}}b
*v?O9@a ` 58A1i2c|1<0? Ke&53^_ns='|}9Nf\1
w~~QI}<Iyfm{)Z4u pZ@@8" 63hGPI'IB@xNp[hmy+-uJnzsa_`A= yx;?=4\%mz*QCwBO/Z8fWF5hc$ca0sQ7
qfM#^=e)+~'7]w^/-0P[h;tEh/a89:/J24HCC+<.2g"RN30*=I !Sg&R-JQJYX+?J^>|@ $Dk@<^y }He ` pogo-
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Y)fD#a'
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W.iV2X{?~}|{?EcSEp=o=SLg7_c_(Un6,M\H?Oint/~cca`\T/.u3kOx[k+2_s"/=6ny\3p/>>SIp.Fz\/|Z=k|o#,5x`qHU.Z
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O;>ZR<^ F.gOc?[*g7)0}VhuOP1V>1];+wQ[U6b(TuwVG'%$x_[3f>.9g*7SV@
fKo
0 2y9\<o>{[1._*DZ^8pS50o5e>av~<]?;X1yc;~}
&_cxcG
7-Eys}/oh; B{02N2U%^:
[)Qwi'V"
Azw}z6+;*=Y|ke$CvvTnotOM9d&^6!..:q;SA% -e4nmCpWYh
z\TXsQq:u_\JlTcf0?T`Xp\]K.#:Pw5`R4Z!
J/V~XgKS+QGcZ+cuqWbp{)5CMAKX&r12x} VO4IAVTU:L,,QOdCkk]228"Q p3BUPzW)
qy/Qhu=aoE~QT:/
?Xqx;v|4.*Q;Z1q%DE-,i;HMg>Rp;q"nGaJ7*S";:-&
W_}nKn.]8[y6mDspEHf;pw&
j\x61%)leJ5x**PZozNFKP=vBw*++g
Smsmg\u?C?CUbpC>]^cbxgvA4^?g_8200000 l&Q?r,fK`FnVz18et\
:Sci!>)3c
M5$-9}m(QI(jjXP4%Z.SRvRfLr\&[@"3/ cjn#uN7,(>d^s7JFbZxH^;`^:5;[I4BTRB?h}pp}aFN(HDo5EV|oyY>-
3}2"~+*CM%jrqa92 f&xC](_CmUk\>sl/e|<8t`%2>c2&@r x'J[v0fJm]4$^@Yngyf!@]>GS YQQUIGHqad%*&-
'emc`I?LU}&}7a
WVUY^I*~VLRcHbL8}+,&LzqLSmV~&R<E
qp'Ec ` ` A@SEv9m(iRCbU3a^0Z7cd\n&l
:vN\1=I=HCgvec0[p^Jmn6b,F>h]<
=ht"K#ui}NaUmeGu+NtM$<tE28
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NS\wm %R(XvHAM]ub=1oIb"!&&Q?'"PCu,dR0_57NtTct12~m:1{u;2 <q$vL -c>@_k?}pG3|
_B)\E`9WylG6W'=O}q3pC&|3YRqhDVuA__3eVGRx,kh,UvMt{" {bi`a"6D9g|:ppw.,wQM$
{"r[hKF*,AgWrl4G9q\uRVM!E$%Y).B77w'[n]

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x/WOF%9YTX#z4&+i,cAO[%*;6,\
8wB2V~5)N1>hDA`>;+U/lMhuOsvt0u8sB=1Ww~!x?GD k]sspIoAeKP;r
sqSQV^267 #p_wC}owHo!|t@>
%>-;x@c[&V?bj
7b8:
cETPIE\L<s -JVs@cOeYw*MV4tr'%FGGhA,u_b<l/~r.bf(
d0HVm"wM@l$019Q%]`#_vA~\8:[n%=u'i7#t\{EmVNELy8q0/?+L
%"@OD6555y6(}royI&~-aRRRa12{QPPo|VFz5kHrG"+.GSXay9<YiIpA]~{X&B
sC3)1!n(\G(+#|8CS[K
Jj+`_Q-#"]t$P:knY0P}A!75
HBvb-#
F'G6n6D ;'M&F^WX#KU"EOBNbE**@" AK9qVc ?LA&#fHQ})
[<b
]SjC!O3A%9&Gvoqe<s$z OzPk1J cjUC"
#G=1+!^
U"6w"N!=;i-kRR z,M46=
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Du<u3 *_{])dgeDt34oGHHvBeF!qQ+**u$%%1yErL(<F@Q@@7]k3G>:~ss?)phiHyil;UyahD[/
1W|^=Z`_zzgL[B> 7>wOiWvesED
ps9A4dXA+'
V<HOHG`Wd#ZyHvMx@A ^[/rGh @8L
^"*X|
}j0:x%W#Ua0
M_
eYrxJ},VMVT}&jUGcU@VntT6rq[I_"QWut\op
J`.\dcD=}nojPG;i6sB_2{,>j8z'}kTFB@4md0T\66k3I}rh<uySJ?_a+[T]F9k@(L=bf/w4=;>1uk%:ICh#ytvSQ+[^Yz
M"73/8'|Eeuo4`\:3>t9=Fs8S}0U}Akwu$0-|mOS4^M7c-
y1KH}wi_W))8^Gioc9=fwyKDXtLWSM'M_q>GT86|%UeYWU}8R4,! C~4!7J"

K|Ln>lBk^1}\azvt'GnDo`T~e-]BfN?>cSCOGnu5-$Bg)^F?I.Dg3}+=j)4T{A#
k5008xa:5V,zrv@Y22B}h*/BK_0=L!D7=338|!bI1^9,fL`k;X(~o/#Z4=<ZAf<o0kVe,jc2}26gajhOl2f #U=Z-
$~)lK$(Yu1 B
a-i~k~N8:FFyQf* ?s|:JVHz~' sa1S$=zt0k79{>3'! ;?&adbuh.BIcLSS
v 9097{nCgT[31);{wlEqizC0"3;QXJ05pj)FuNJ
b!BvRA2m"nY ")&"*H: 8h**=PL2eVES*8PL8>JtZ- 1c35"Ra.:nEem%6|0Q6UMg_8&
}:
=x:Tu8PWlFLXl{(Lon-);$92<U.xj*<A^5xwl,nbR\ha4g*j7m>l|_wnxK#|wPC?W'ooV1S '7
I2;,hDx]t&g&cLFeh{WJ,@G:X>H:3f#`IS19B#qV747Mho>i3R3hp&Fu%(lZXF/<fLBn|]hr"s\NJ*.Ql{C(i ` `
B@2,av<66P#a+y!kw3B{_;Y_^h?}Q.E !AE'H<C1,?b:|E#p[%ly\Y=2
m24HtBjM3ba24Z;' tXJ*a0BbALT(|h[`RvV
>YHG^1OEWs-B
2(b ` ` ` A@"deH!TU]lc`Lr(z,OQ-jFFp.!`;0e~\do'$Iy40#0N/(#B .x]hApL<BLh>%o[N'1*d<& yHVDhjjCXJ
BRj<l@`
iQ%eLF_X">6-PH@jc]H8s3_b~qo h ` ` MF[cH14v?Dxk_/r'?mz<wKm
w6VD=B(|W<PP"9#|<{yfQ:hSXFM
W6l;$oZ08Lao
Ys $<RZi hSd1b8

#R1{<WG/\5^fI};,?lDEsvb?{XU{B * W]].(H/ @
3&0y)g|s93gfblxUQ1e"@G3/!mVy2SpVei$9Y8ya7bGc&XDNE&|4 F p{o[GluG-).%E (E5m4$G" 4+
M1W.G2{r]YC&@:/jlviE=5Q?JQLtZ<4v7Z4W&D.t4L\}SXd[J^)a01H7xu*.dHY
Kh"&$D@"p*@GzSixL@$o"36~!^C@=Y/,fl+ 7L)yxqYodP^z
CWXK'taih7KqB)6)
$vNR2d.!!H')(/fgYQEfYXQ0b3.J(akY!2:q
=?T>Tt:*VQO[RH$
_Zk@;b0?\pe3`ktGrKe|i,cHlb60?1 .!8cBITE"p8$pJ3#|]d(
4},X e(QAH1%GW2vSxb1ZDd2}xFMjF{-x@>y
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cS4ZDQ:<)%Dk (!| wX^6nkYS[%B(k%kMTC$n@F8E<8VN" HZ+l.us4R8Y! u ^I.DSG)I$D@" T@|uJ%D@"
H$]@c<Jc8XD@" 8}[:}D@" 8{9 D@" H:\adDD"vC[NNH;HoD@" HDh{rDz..-^"
Sts>,#[F(`~2D@"p#9\`Y4DCv=6
HH/D@" H$D pY!Cg/IU" H$D@" !tR@Xt05p8XZ8q 46%H&kwrZ~$gV,:'\GvLYj5o=C\Q!fJ@;1_m -
)9lY@JPR6.Rb"Hjwmlhk7e<(K"pn! ,H<uHas//.ZTY/BVFMF)n DLSa
"O
i=yF$DU'LL0&H$0v'yrh!SXpMNM`bMHC\'\
W0|&^)JPUoYi

&+jF):h^u %
m"c
8Ra
^G F-BnPXZFqS)]WD@t]1D@" u8,Tc"ANC
gjfz?L34uTSjyUS
7`A^" ?vh+B[67~<P@j
pE~1a V8_W?-C/f!F_7>6\bT/kj,FCGnHD0'/,wgt ==O ,MimB|uFD`PhMFY+H$@@dHt%oxO_'Mho`QxS!pl%>
GegGxpf?gk)vczM^UH!F>*h#9RguD:gUYFWDK &+ 0hDBBI{{4ELh#%#L
6:LK2>xxL JP`&#F/Wx/j7-Vm)K;x<?=7Vajun=`=^][
0"bxv]5D@" u;w@8m:JREGk%9F"P
fd $|RJszE%mW7hUjRrAg^8{<hjT<h,/} qBi(pvA2#DK!o= ={D=^z!::C|v`Dmfx2,i!~
2&-2XXza:se
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SFdh5,Y=&O@*6o @WaW.EeW_?`sf>BL,$zK#'X;}/V_]{C!>
ICVh,)D
>#HbdIJ_}\K1{?e~IJ_p$
rbF^$_ X
lb;<i5;
r3I!5
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7^y),AxDjqt' iJ;BK?2.D!\c5
i&kpG'VH$#`6_1.=HQB~g`9 c>!xsmkb$&6PWU.;0Pwawf:L+ |.RqII
~Ws
zgG(M\bg:nm|?=+s~F$2&EN" 8K-= M{xKaS#1:.Jpo Vf,l4{b}5xbQ)rJ,b=o(RC[`Y2Z'Q6a2X\M! kG" "l4(f*
O[XMR_q|XQ@LlQ.ulpW!TXqDx5J~ZGKE#
' Y006mEnY FZ/|[6~+:ya
H"akh0rf@hG" 8N<B=O8u oIGZ/XKc1:+5O]ld9cZ||

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E_G
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F@XJ5zCc-
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+?U1j4a0V6d0mNY;8lD~x
#I<Y(,*`B'9d;g<*D@"8 p`=hjBoh0idj!EAB'KlL
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8B"
G9(+Pn8
grC<b-D:W(?.O&m)|DZ5]V<SQ|*O)H/wETHrHB~U.4<yp<)g+TzD@" 8
I"}>bH4bEHB<e'
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(H<TUpxDsme?DpuTNlY ! MFBX8bBiL(>Xi{BV> 1(jDc]"c#U
Ctv-u~jXAA8=..UaWgef"#@_>UQ:o
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B*.)D|Uz8
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_ ;_a;?%&r<2M/galr2oOTNd1Uafu`hwr+NpkcA[9phV6uup|chs[/K
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DMC#b+nH_,42_=5t9%i4$[&9.?7$kSiEGGiGqH@9QyXSsdzjz{7}75.AAM`/'.aayo`#o -.~L)!
}sVhheZ
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{ODV@9gfoA|RKw=/.]^>}*k|ZD
q +PeGs$7#8L'~HE`HSU\zi1(9v0LJY03V|v/
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W``F/#(c30 1DF~EkQ
Kg`p7n%8s*2BG\cO 76%

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D/M#7'|hPmfqn-g4jXw0
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GOya3V; Q Q7e1d`8W,Ob30c@iq#'bR\7u,u {r%QPaOO &=0$J0nT{>/=t
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?RJ|,es())%~`HWd,j5Qa. a3Aw{`Cv|3cuY3(
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%!FEhl:HWH\w7sg`$6c"\OSZQ>a&FGM=ZM8tVH$6,um~^d4yA/.uHWt!!~3QvsFqk7_ 0D
?\iPK8 .4,l>(!'
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:*w`v+kl@lFjh}_Pk>Vhf(8z(!x
3zn&|gFL6^%q!#;)-7sk)O7M0R*2GTC7z&uz[5TAXhaw>:%Q}ahC7
yfOI@W>>/!,eKTx`R]{y(v/+E}Yki9;wso/zp&~dVK%XSbbgXCRyT-}T\0Jkdb{Eb&mKi)E'bx\X3 #?n(K-J'H$
\%NZG~N!!*~HZKkCEymi@Q:FO%hOXz5_EL^/ r`Jl4,t3>`[KS,?#HB1$8OT^ +k<7
#p);
ZciyBh l%7WN8q.$j@mY!"qcg?\c:ii
l^^) dJ}G+(4hiyRy5i8o[XUDF[T-P^pOZRZG-
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mKApB
c(RxdYd0' ('zEFB\C!-w@<V((%k="QW?lc%->ZV`5^.Y*`aIX{=t_}K[I|\|p?L]
)|-$wUZBVTTJQ]H
!SO"M{n[G~ >4o.,OIK<f*bjGc7".1!{i1w9\sD>Sx_?}opaf045'R
#i>c[FH+18f!4?9\g;O5)1sf}+/{5n(fXW0L|cUdmc{Kw,!*`T"gT?^xd7)+6
3P2R'cJ)8|xLm|{9^LP9?G}gC/4jZO?W]k5exSJv7Tsqq;66"qDg)'D@" 8(--{+aWoz5G"Rmtk4!%%
~4c@k(Bct75&Ov62&)8!$/f3Hf!+-iJ*Fh`4m{fQ Cjj,i7MhATc73Z2
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A
'h={QDIoD T*m.hGD'O>y'7Bh%^!U<NEh|2m{guz.X12Gf\}

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EpCf^)IZi9hf6jp""$GO!dREAH'-'/NPd
Y?
GQ(Q_zB,WH]Th~XFw")}M
|K3Q|S@d*8]_u+H*qCCbbJ$=$@wC@y]+.
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y_6#\is bKZWZjV&sHK9VP@,'=wKP? v "Hx6
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zM"+-bG
/"{q98 3"o)yr9<"-otUcJLDB^8Rk+Zx'b-/'3LKM99ciTwu@ LECgwNTE]=aZBRiG cGYi=
_X<
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a]:W9,B&Ox>Z:@KW=]
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GPC$x'CDq4/1 oj-w;%DG@/_=
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DD`L:F+yU8!N>I
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}a;gqVJNvLDBb22Qovf#30a+j}Ia9(6'2a;bvq_<r+)5ci+|?xyq
[NZ#Z@\P$G)8D#(4GW$XF*e:0Z[Eytw:p1]:1^n@1J(15^1@Q^42A_# b*P3}uoU?D@" D@v)$=
vAiL5N
d \}y!.R?{>++*0vr6%#$%g&Z3zcw^%P!-2<yXM B=9-
E
ggtZf}
rxMY:Y]I,ppe?yU<[0)N1`T&toAIi%iTGS(n)TR:Rs`yMkyRe8Hc95zX*Jq$w
?wCG
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8PQ
4b*&pF~pl[OWW#al~9*F^~C?}i7QXLHpH,oG0#vU*T-{EIZGRmCS$(+~}O6ocIJG(,AN/FLCP7
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y/ciG)$#_$ 1'#>5qQ4"yQm
FH4DzACJMhb*1 &21dEbiJ;[V*~w/Ncb# 9,882iWpI'0!GJ578;LbbM&X$$G!)d
"t,QGJ:b\4iDB,'3,4YuZPoA$1H((@;EK2|=&t46=^V,<HI1!$;WaP:m^}q|Ac:k+i

\?
fX&Wp=KvmQQQ4pr]]l"|H$]v!77W]\H*fN<]%^MG"sEYp4A]\{{lZPN,J.*-WvOK:RmmL[fq}AAPV=e`
Ro8g#}hD$1-a24VfHh-E;J{uO 3.w0lg=lxYCWF@}27D@" j>WaC>s^M,<0C_oppMJgW
$W+l>R>XK`SnF*=BQJWW2(eS'#,<\6J1]QKjqec^T^+^sl=~
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p46p]
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Version 3, 29 June 2007

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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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6.210 Twofish_Properties.java 1

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6.212 velocity-dep 1.3.1

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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.

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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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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Ty Coon, President of Vice

That's all there is to it!
java/lang/Object!

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Version 2.1, February 1999

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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.

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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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AND MODIFICATION</h2>

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this Lesser General Public License (also called "this License").
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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
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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
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all the notices that refer to this License and to the absence of any
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You may charge a fee for the physical act of transferring a copy,
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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
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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
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In addition, mere aggregation of another work not based on the Library

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You may opt to apply the terms of the ordinary GNU General Public
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these notices.

Once this change is made in a given copy, it is irreversible for
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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
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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
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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
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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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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
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modification of the work for the customer's own use and reverse
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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
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For an executable, the required form of the "work that uses the
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package org.voltdb.common;

import java.util.Arrays;
import java.util.Collection;
import java.util.EnumSet;
import org.voltdb.catalog.Group;

//If you add a permission here add a boolean in spec.txt and update getPermissionSetForGroup method
public enum Permission {
  //These enums maps to specific boolean in spec.txt

  ADMIN,          // aliased by SYSPROC
  ALLPROC,
  DEFAULTPROC,
  DEFAULTPROCREAD,
  SQL,            // aliased by ADHOC
  SQLREAD;

  public static final String toListString() {
     return Arrays.asList(values()).toString();
  }

  /**
   * Get the Permission enum by its name or alias
   */
  public static final Permission valueOfFromAlias(String name) throws IllegalArgumentException {
```

```
    try {
        return valueOf(name);
    } catch (IllegalArgumentException e) {
        // Put the aliases here
        if (name.equalsIgnoreCase("SYSPROC")) {
            return ADMIN;
        } else if (name.equalsIgnoreCase("ADHOC")) {
            return SQL;
        } else {
            throw e;
        }
    }
}

/**
 * This is there so that bools in spec are converted to enums in one place.
 * @param catGroup defined in catalog
 * @return permissions as <code>EnumSet&ltPermission&gt</code>
 */
public static final EnumSet<Permission> getPermissionSetForGroup(Group catGroup) {
    EnumSet<Permission> perms = EnumSet.noneOf(Permission.class);
    if (catGroup.getAdmin()) addPermission(perms, ADMIN);
    if (catGroup.getSql()) addPermission(perms, Permission.SQL);
    if (catGroup.getSqlread()) addPermission(perms, Permission.SQLREAD);
    if (catGroup.getDefaultproc()) addPermission(perms, Permission.DEFAULTPROC);
    if (catGroup.getDefaultprocread()) addPermission(perms, Permission.DEFAULTPROCREAD);
    if (catGroup.getAllproc()) addPermission(perms, Permission.ALLPROC);
    return perms;
}

/**
 * Construct a permissions set from a collection of aliases.
 * @throws java.lang.IllegalArgumentException If the alias is not valid. The message is the alias name.
 */
public static final EnumSet<Permission> getPermissionsFromAliases(Collection<String> aliases)
throws IllegalArgumentException {
    EnumSet<Permission> permissions = EnumSet.noneOf(Permission.class);
    for (String alias : aliases) {
        try {
            addPermission(permissions, Permission.valueOfFromAlias(alias.trim().toUpperCase()));
        } catch (IllegalArgumentException e) {
            throw new IllegalArgumentException(alias.trim().toUpperCase());
        }
    }
    return permissions;
}

/**
```

```
 * Add the given permission to the permission set.
 * @param permissions    The permission set
 * @param toAdd          The permissions to add
 * @return The same permission set as passed in
 */
private static EnumSet<Permission> addPermission(EnumSet<Permission> permissions, Permission...toAdd)
{
    for (Permission onePerm : toAdd) {
        // Permissions that infer other permissions need to be listed here and
        // set the inferred permissions as well as itself.
        //
        // Always add the permission itself and then call this method to add
        // the inferred permissions.
        switch (onePerm) {
        case ADMIN:
            permissions.addAll(EnumSet.allOf(Permission.class));
            break;
        case SQL:
            permissions.add(SQL);
            addPermission(permissions, SQLREAD, DEFAULTPROC);
            break;
        case SQLREAD:
            permissions.add(SQLREAD);
            addPermission(permissions, DEFAULTPROCREAD);
            break;
        case DEFAULTPROC:
            permissions.add(DEFAULTPROC);
            addPermission(permissions, DEFAULTPROCREAD);
        default:
            permissions.add(onePerm);
        }
    }
    return permissions;
}

/**
 * Set the boolean flags in the catalog group based on the given permissions.
 * If a flag is set in the catalog group but the corresponding permission is not
 * present in the permissions set, the flag will NOT be flipped.
 *
 * @param group          The catalog group
 * @param permissions    Permissions to set in the group
 */
public static final void setPermissionsInGroup(Group group, EnumSet<Permission> permissions) {
    for (Permission p : permissions) {
        switch(p) {
        case ADMIN:
            group.setAdmin(true);
```

```
            break;
        case DEFAULTPROC:
            group.setDefaultproc(true);
            break;
        case DEFAULTPROCREAD:
            group.setDefaultprocread(true);
            break;
        case SQL:
            group.setSql(true);
            break;
        case SQLREAD:
            group.setSqlread(true);
            break;
        case ALLPROC:
            group.setAllproc(true);
            break;
        }
    }
  }
}
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/** A very fast and memory efficient class to encode and decode to and from BASE64 in full accordance
* with RFC 2045.

* On Windows XP sp1 with 1.4.2_04 and later ;), this encoder and decoder is about 10 times faster
* on small arrays (10 - 1000 bytes) and 2-3 times as fast on larger arrays (10000 - 1000000 bytes)
* compared to <code>sun.misc.Encoder()/Decoder()</code>.

*
* On byte arrays the encoder is about 20% faster than Jakarta Commons Base64 Codec for encode and

* about 50% faster for decoding large arrays. This implementation is about twice as fast on very small
* arrays (&lt 30 bytes). If source/destination is a <code>String</code> this
* version is about three times as fast due to the fact that the Commons Codec result has to be recoded
* to a <code>String</code> from <code>byte[]</code>, which is very expensive.

*
* This encode/decode algorithm doesn't create any temporary arrays as many other codecs do, it only
* allocates the resulting array. This produces less garbage and it is possible to handle arrays twice
* as large as algorithms that create a temporary array. (E.g. Jakarta Commons Codec). It is unknown
* whether Sun's <code>sun.misc.Encoder()/Decoder()</code> produce temporary arrays but since performance
* is quite low it probably does.

*
* The encoder produces the same output as the Sun one except that the Sun's encoder appends
* a trailing line separator if the last character isn't a pad. Unclear why but it only adds to the
* length and is probably a side effect. Both are in conformance with RFC 2045 though.
* Commons codec seem to always att a trailing line separator.

*
* Note!
* The encode/decode method pairs (types) come in three versions with the exact same algorithm and
* thus a lot of code redundancy. This is to not create any temporary arrays for transcoding to/from different
* format types. The methods not used can simply be commented out.

*
* There is also a "fast" version of all decode methods that works the same way as the normal ones, but
* har a few demands on the decoded input. Normally though, these fast verions should be used if the source if
* the input is known and it hasn't bee tampered with.

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* @author Mikael Grev
*       Date: 2004-aug-02
*       Time: 11:31:11
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```

```
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant
{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
  static const bool value = C_;
  operator bool() const { return bool_::value; }
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
 typedef T type;
};

template <class T>
```

```
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; };
  static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
  public:
  enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

template<
     bool C
   , typename T1
   , typename T2
   >
struct if_c
{
   typedef T1 type;
};

template<
     typename T1
   , typename T2
   >
struct if_c<false,T1,T2>
{
   typedef T2 type;
};

template<
     typename T1
   , typename T2
   , typename T3
   >
struct if_
```

```
{
  typedef typename if_c<0 != T1::value, T2, T3>::type type;
};


template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
  template<class OtherPair>
  const typename Pair::first_type& operator()(const OtherPair& x) const
  {  return x.first;   }

  const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
  {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
  typedef T type;
  const T& operator()(const T& x) const
  { return x; }
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };
```

```
}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
```

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* Abstract: The main routine
*
--*/
```

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```
# A gnuplot script to generate a bar chart
reset
set style fill solid 1.00 border 0
set style histogram clustered gap 2
set style data histogram
set xtics rotate by -45
set grid ytics
set xlabel "Number of rows"
set ylabel "Cardinality"
set yrange [0:*]
set key on left

set term png size 1280, 960 font 'Helvetica,20' noenhanced
set output 'bench_accuracy.png'

plot 'bench_accuracy.dat' using 2:xticlabel(sprintf("%s\n%2.1f%% error", stringcolumn(1), column(4))) ti "Exact", \
'bench_accuracy.dat' using 3:xticlabel(sprintf("%s\n%2.1f%% error", stringcolumn(1), column(4))) ti "Estimate"
# A gnuplot script to generate a bar chart
reset
set style fill solid 1.00 border 0
set style histogram clustered gap 2
set style data histogram
set xtics rotate by -45
set grid ytics
set xlabel "Number of rows"
set ylabel "Execution time (ms)"
set yrange [0:*]
set key on left

set term png size 1280, 960 font 'Helvetica,20' noenhanced
set output 'bench_perf.png'
```

plot 'bench_perf.dat' using 2:xticlabels(1) ti "count(distinct value)", \
'bench_perf.dat' using 3:xtic(1) ti 'approx_count_distinct(value)'
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 <settings default="" />
</component>
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Written by: Philip Hazel
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That's all there is to it!
java/lang/Object!

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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
java/lang/Object!

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6.230 xmlParserAPIs (Xerces-J) 2.6.2

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7.3 cglib-nodep 2.1_3

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7.7 commons-configuration 1.6 1.6

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7.8 commons-lang 2.6

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7.11 hamcrest-core 1.1

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7.13 hamcrest-library 1.1

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7.20 jetty-util 7.1.4.v20100610

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The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (contrib/analyzers) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
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contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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contrib/analyzers/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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```

7.25 mina-core 2.0.7

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```
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```

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7.29 org.springframework.beans 3.0.4.RELEASE

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7.30 org.springframework.context 3.0.4.RELEASE

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7.31 org.springframework.core 3.0.4.RELEASE

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7.32 org.springframework.expression 3.0.4.RELEASE

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7.35 slf4j 1.5.0

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7.36 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);
}
```

7.37 slf4j_Apache 1.5.0

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7.38 syslog4j 0.9.46

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- jsp_2_2.xsd
- web-app_3_0.xsd
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- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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- javaee_web_services_1_2.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
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8.7 ASM Core 5.0.2

8.8 ASM Core 3.3.1

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*/
package org.objectweb.asm;

/**
* A visitor to visit a Java annotation. The methods of this interface must be
* called in the following order: (<tt>visit<tt> | <tt>visitEnum<tt> |
* <tt>visitAnnotation<tt> | <tt>visitArray<tt>)* <tt>visitEnd<tt>.
*
* @author Eric Bruneton
* @author Eugene Kuleshov
*/
public interface AnnotationVisitor {

  /**
   * Visits a primitive value of the annotation.
   *
   * @param name the value name.
   * @param value the actual value, whose type must be {@link Byte},
   *       {@link Boolean}, {@link Character}, {@link Short},
   *       {@link Integer}, {@link Long}, {@link Float}, {@link Double},
   *       {@link String} or {@link Type}. This value can also be an array
   *       of byte, boolean, short, char, int, long, float or double values
   *       (this is equivalent to using {@link #visitArray visitArray} and
   *       visiting each array element in turn, but is more convenient).
   */
  void visit(String name, Object value);

  /**
   * Visits an enumeration value of the annotation.
   *
   * @param name the value name.
   * @param desc the class descriptor of the enumeration class.
```

```
 * @param value the actual enumeration value.
 */
void visitEnum(String name, String desc, String value);

/**
 * Visits a nested annotation value of the annotation.
 *
 * @param name the value name.
 * @param desc the class descriptor of the nested annotation class.
 * @return a visitor to visit the actual nested annotation value, or
 *         <tt>null</tt> if this visitor is not interested in visiting
 *         this nested annotation. <i>The nested annotation value must be
 *         fully visited before calling other methods on this annotation
 *         visitor</i>.
 */
AnnotationVisitor visitAnnotation(String name, String desc);

/**
 * Visits an array value of the annotation. Note that arrays of primitive
 * types (such as byte, boolean, short, char, int, long, float or double)
 * can be passed as value to {@link #visit visit}. This is what
 * {@link ClassReader} does.
 *
 * @param name the value name.
 * @return a visitor to visit the actual array value elements, or
 *         <tt>null</tt> if this visitor is not interested in visiting
 *         these values. The 'name' parameters passed to the methods of this
 *         visitor are ignored. <i>All the array values must be visited
 *         before calling other methods on this annotation visitor</i>.
 */
AnnotationVisitor visitArray(String name);

/**
 * Visits the end of the annotation.
 */
void visitEnd();
}
```

8.9 ASM helper Minidev 1.0.2

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8.10 aspectjrt 1.8.7

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8.11 aspectjweaver 1.8.7

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8.12 backbone 1.1.2

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8.13 bcprov-jdk16 1.46

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8.22 cglib-nodep 2.2

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Other developers who have contributed code are:

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8.30 commons-beanutils-1.7.0.jar 1.7.0

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8.48 el-api 2.2

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8.49 ember-ajax 0.7.1

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8.50 ember-array-contains-helper 1.3.1

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8.51 ember-basic-dropdown 0.32.9

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8.52 ember-cli-app-version 1.0.1

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8.53 ember-cli-clipboard 0.3.2

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8.54 ember-cli-deprecation-workflow 0.1 :v0.1.5

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8.55 ember-cli-jquery-ui 0.0.20

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8.56 ember-cli-shims 0.1.1

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8.57 ember-cli-test-loader 0.2.2

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8.58 ember-cli-test-recorder 0.2.0

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8.59 ember-concurrency 0.8.12

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8.60 ember-content-editable 0.10.0

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8.61 ember-cookies 0.0.13

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8.62 ember-data 2.10.0

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8.63 ember-data-model-fragments 2.3.2

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8.64 ember-data.model-fragments 0.4.2

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8.65 ember-factory-for-polyfill 1.3.1

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8.66 ember-getowner-polyfill 1.2.5

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8.67 ember-highcharts 0.4.0

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8.68 ember-i18n v3.1.1

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8.69 ember-i8ln 4.3.1

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8.70 ember-inflector 1.12.1

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8.71 ember-link-action 0.0.34

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8.72 ember-load-initializers 0.5.1

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8.73 ember-load-initializers 0.1.7

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8.74 ember-network 0.3.1

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8.75 ember-notify 5.2.0

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8.76 ember-power-select 1.8.5

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8.77 ember-qunit 0.4.16

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8.78 ember-qunit-notifications 0.1.0

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8.79 ember-radio-buttons 4.0.3

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8.80 ember-resolver 0.1.20

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8.82 ember-simple-auth 1.2.2

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8.84 ember-text-measurer 0.3.3

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8.88 ember-validations 2.0.0 :alpha.4

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8.90 ember-wormhole 0.5.4

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8.91 ember.js 2.8.3

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8.93 fast-classpath-scanner 2.0.3

8.94 fluent-hc 4.3.6

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8.100 hibernate-validator 5.1.0.Final

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8.101 highlight.js 9.1.0

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8.102 highlight.js/test/detect/dts/ 9.1.0

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*/
/include/ "skeleton.dtsi"

/ {
 compatible = "xlnx,zynq-7000";

 pmu {
  compatible = "arm,cortex-a9-pmu";
  interrupts = <0 5 4>, <0 6 4>;
  interrupt-parent = <&intc>;
  reg = < 0xf8891000 0x1000 0xf8893000 0x1000 >;
 };

 regulator_vccpint: fixedregulator@0 {
  compatible = "regulator-fixed";
  regulator-name = "VCCPINT";
  regulator-min-microvolt = <1000000>;
  regulator-max-microvolt = <1000000>;
  regulator-boot-on;
  regulator-always-on;
 };

 amba: amba {
```

```
 compatible = "simple-bus";
 #address-cells = <1>;
 #size-cells = <1>;
 interrupt-parent = <&intc>;
 ranges;

 adc: adc@f8007100 {
  compatible = "xlnx,zynq-xadc-1.00.a";
  reg = <0xf8007100 0x20>;
  interrupts = <0 7 4>;
  interrupt-parent = <&intc>;
  clocks = <&clkc 12>;
 };

 i2c0: i2c@e0004000 {
  compatible = "cdns,i2c-r1p10";
  status = "disabled";
  clocks = <&clkc 38>;
  interrupt-parent = <&intc>;
  interrupts = <0 25 4>;
  reg = <0xe0004000 0x1000>;
  #address-cells = <1>;
  #size-cells = <0>;
 };

 L2: cache-controller@f8f02000 {
  compatible = "arm,pl310-cache";
  reg = <0xF8F02000 0x1000>;
  interrupts = <0 2 4>;
  arm,data-latency = <3 2 2>;
  arm,tag-latency = <2 2 2>;
  cache-unified;
  cache-level = <2>;
 };

 };
};
```

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8.103 httpclient-cache 4.3.6

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8.105 httpmime 4.3.6

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8.111 jackson-core-asl 1.9.13

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8.112 jackson-databind 2.9.4

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8.113 jackson-dataformat-yaml 2.5.4

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8.114 jackson-mapper-asl 1.9.13

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8.115 jackson-module-jsonSchema 2.9.4

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8.116 Jakarta-ORO 2.0.8

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8.117 java-uuid-generator 3.1.0

8.118 javaassist 3.18.2-GA

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8.124 javers-core 2.9.2

8.125 JBoss Logging 3 3.1.3.GA

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8.126 jboss-interceptor-api 1.1

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8.139 jquery 1.8.0

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```
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* jQuery JavaScript Library v1.8.0
* http://jquery.com/
*
* Includes Sizzle.js
* http://sizzlejs.com/
*
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8.140 jQuery BBQ 1.2.1

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```
/*!
* jQuery BBQ: Back Button & Query Library - v1.2.1 - 2/17/2010
* http://benalman.com/projects/jquery-bbq-plugin/
*
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8.141 JQuery UI 1.11.1

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available at https://github.com/jquery/jquery-ui

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8.142 jquery.slideto 1

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8.143 jquery.terminal 1.10.1

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8.144 jquery.terminal/examples/json-rpc.php 1.10.1

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```
<?php
/*
 JSON-RPC Server implemenation
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*/

/*
 USAGE: create one class with public methods and call handle_json_rpc function
 with instance of this class

 <?php
 require('json_rpc.php');
 class Server {
   public function test($message) {
     return "you send " . $message;
   }
 }

 handle_json_rpc(new Server());
 ?>

 you can provide documentations for methods
 by adding static field:

 class Server {
 ...
 public static $test_documentation = "doc string";
 }
*/
```

```
// ------------------------------------------------------------------------------
set_error_handler('error_handler');
ini_set('display_errors', 1);
ini_set('track_errors', 1);
ob_start();
function error_handler($err, $message, $file, $line) {
  global $stop;
  $stop = true;
  $content = explode("\n", file_get_contents($file));
  header('Content-Type: application/json');
  $id = extract_id(); // don't need to parse
  $error = array(
    "code" => 100,
    "message" => "Server error",
    "error" => array(
      "name" => "PHPErorr",
      "code" => $err,
      "message" => $message,
      "file" => $file,
      "at" => $line,
      "line" => $content[$line-1]));
  ob_end_clean();
  echo response(null, $id, $error);
  exit();
}
// ------------------------------------------------------------------------------

class JsonRpcExeption extends Exception {
  function __construct($code, $message) {
     $this->code = $code;
     Exception::__construct($message);
  }
  function code() {
     return $this->code;
  }
}

// ------------------------------------------------------------------------------
function json_error() {
  switch (json_last_error()) {
  case JSON_ERROR_NONE:
     return 'No error has occurred';
  case JSON_ERROR_DEPTH:
     return 'The maximum stack depth has been exceeded';
  case JSON_ERROR_CTRL_CHAR:
     return 'Control character error, possibly incorrectly encoded';
  case JSON_ERROR_SYNTAX:
     return 'Syntax error';
```

```
  case JSON_ERROR_UTF8:
    return 'Malformed UTF-8 characters, possibly incorrectly encoded';
  }
}

// ---------------------------------------------------------------------------
function get_raw_post_data() {
  if (isset($GLOBALS['HTTP_RAW_POST_DATA'])) {
    return $GLOBALS['HTTP_RAW_POST_DATA'];
  } else {
    return file_get_contents('php://input');
  }
}

// ---------------------------------------------------------------------------
// check if object has field
function has_field($object, $field) {
  //return in_array($field, array_keys(get_object_vars($object)));
  return array_key_exists($field, get_object_vars($object));
}

// ---------------------------------------------------------------------------
// return object field if exist otherwise return default value
function get_field($object, $field, $default) {
  $array = get_object_vars($object);
  if (isset($array[$field])) {
    return $array[$field];
  } else {
    return $default;
  }
}


// ---------------------------------------------------------------------------
//create json-rpc response
function response($result, $id, $error) {
  if ($error) {
    $error['name'] = 'JSONRPCError';
  }
  return json_encode(array("jsonrpc" => "2.0",
                           'result' => $result,
                           'id' => $id,
                           'error'=> $error));
}

// ---------------------------------------------------------------------------
// try to extract id from broken json
function extract_id() {
```

```
  $regex = '/[\"']id[\"'] *: *([0-9]*)/';
  $raw_data = get_raw_post_data();
  if (preg_match($regex, $raw_data, $m)) {
    return intval($m[1]);
  } else {
    return null;
  }
}
// ---------------------------------------------------------------------------
function currentURL() {
  $pageURL = 'http';
  if (isset($_SERVER["HTTPS"]) && $_SERVER["HTTPS"] == "on") {
    $pageURL .= "s";
  }
  $pageURL .= "://";
  if ($_SERVER["SERVER_PORT"] != "80") {
    $pageURL .=
$_SERVER["SERVER_NAME"].":".$_SERVER["SERVER_PORT"].$_SERVER["REQUEST_URI"];
  } else {
    $pageURL .= $_SERVER["SERVER_NAME"].$_SERVER["REQUEST_URI"];
  }
  return $pageURL;
}
// ---------------------------------------------------------------------------
function service_description($object) {
  $class_name = get_class($object);
  $methods = get_class_methods($class_name);
  $service = array("sdversion" => "1.0",
                   "name" => "DemoService",
                   "address" => currentURL(),
                   "id" => "urn:md5:" . md5(currentURL()));
  $static = get_class_vars($class_name);
  foreach ($methods as $method_name) {
    $proc = array("name" => $method_name);
    $method = new ReflectionMethod($class_name, $method_name);
    $params = array();
    foreach ($method->getParameters() as $param) {
      $params[] = $param->name;
    }
    $proc['params'] = $params;
    $help_str_name = $method_name . "_documentation";
    if (array_key_exists($help_str_name, $static)) {
      $proc['help'] = $static[$help_str_name];
    }
    $service['procs'][] = $proc;
  }
  return $service;
}
```

```
// ---------------------------------------------------------------------------
function get_json_request() {
  $request = get_raw_post_data();
  if ($request == "") {
    throw new JsonRpcExeption(101, "Parse Error: no data");
  }
  $encoding = mb_detect_encoding($request, 'auto');
  //convert to unicode
  if ($encoding != 'UTF-8') {
    $request = iconv($encoding, 'UTF-8', $request);
  }
  $request = json_decode($request);
  if ($request == NULL) { // parse error
    $error = json_error();
    throw new JsonRpcExeption(101, "Parse Error: $error");
  }
  return $request;
}
// ---------------------------------------------------------------------------
function handle_json_rpc($object) {
  try {
    $input = get_json_request();

    header('Content-Type: application/json');

    $method = get_field($input, 'method', null);
    $params = get_field($input, 'params', null);
    $id = intval(get_field($input, 'id', null));

    // json rpc error
    if (!($method && $id)) {
      if (!$id) {
        $id = extract_id();
      }
      if (!$method) {
        $error = "no method";
      } else if (!$id) {
        $error = "no id";
      } else {
        $error = "unknown reason";
      }
      throw new JsonRpcExeption(103,  "Invalid Request: $error");
      //": " . $GLOBALS['HTTP_RAW_POST_DATA']));
    }

    // fix params (if params is null set it to empty array)
    if (!$params) {
```

```
        $params = array();
    }
    // if params is object change it to array
    if (is_object($params)) {
        if (count(get_object_vars($params)) == 0) {
            $params = array();
        } else {
            $params = get_object_vars($params);
        }
    }

    // call Service Method
    $class = get_class($object);
    $methods = get_class_methods($class);
    if (strcmp($method, "system.describe") == 0) {
        echo json_encode(service_description($object));
    } else if (!in_array($method, $methods) && !in_array("__call", $methods)) {
        // __call will be called for any method that's missing
        $msg = "Procedure `" . $method . "' not found";
        throw new JsonRpcExeption(104, $msg);
    } else {
        if (in_array("__call", $methods) && !in_array($method, $methods)) {
            $result = call_user_func_array(array($object, $method), $params);
            echo response($result, $id, null);
        } else {
            $method_object = new ReflectionMethod($class, $method);
            $num_got = count($params);
            $num_expect = $method_object->getNumberOfParameters();
            if ($num_got != $num_expect) {
                $msg = "Wrong number of parameters. Got $num_got expect $num_expect";
                throw new JsonRpcExeption(105, $msg);
            } else {
                //throw new Exception('x -> ' . json_encode($params));
                $result = call_user_func_array(array($object, $method), $params);
                echo response($result, $id, null);
            }
        }
    }
} catch (JsonRpcExeption $e) {
    // exteption with error code
    $msg = $e->getMessage();
    $code = $e->code();
    if ($code = 101) { // parse error;
        $id = extract_id();
    }
    echo response(null, $id, array("code"=>$code, "message"=>$msg));
} catch (Exception $e) {
    //catch all exeption from user code
```

```
        $msg = $e->getMessage();
        echo response(null, $id, array("code"=>200, "message"=>$msg));
    }
    ob_end_flush();
}

?>
```

8.145 jquery.wiggle 1

8.146 js-yaml 3.4.6

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8.147 Json Path 2.0.0

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8.148 JSON Small and Fast Parser 2.1.1

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8.149 json-smart 2.1.1

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8.153 jsr250-api-1.0 1.0

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8.166 moment-timezone 0.5.11

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8.168 mongo-java-driver 2.13.0

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8.179 org.springframework.asm 3.0.5.RELEASE

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8.180 org.springframework.beans 3.0.4.RELEASE

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8.181 org.springframework.context 3.0.4.RELEASE

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8.182 org.springframework.core 3.0.4.RELEASE

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8.183 org.springframework.expression 3.0.4.RELEASE

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8.185 parboiled-scala_2.11 1.1.7

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8.187 pretender 0.12.0

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8.188 protobuf-java 2.4.1

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8.189 qunit 1.20.0

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8.190 reflections 0.9.10

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8.193 rsvp 3.6.2

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8.194 rsvp 3.0.21

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8.196 sanitize-html 1.18.2

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8.197 scala-library 2.11.7

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8.198 scala-parser-combinators_2.11 1.0.4

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8.199 scala-reflect_2.11 2.11.7

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8.200 select2 3.5.2

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8.201 servlet-api 2.5

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8.202 slf4j-api 1.7.13

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8.203 slf4j-log4j12 1.7.12

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8.205 snakeyaml 1.8

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8.215 spring-expression 4.1.9.RELEASE

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8.216 spring-security-config 3.2.8.Release

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8.218 spring-security-core 3.2.8

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8.220 spring-security-oauth2 2.0.9.RELEASE

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8.221 spring-security-web 4.0.2.RELEASE

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8.222 spring-security-web 3.2.8

8.223 spring-test 4.1.1.RELEASE

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- javaee_web_services_client_1_2.xsd
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- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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