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Julian Seward, Cambridge, UK.
jseward@bzip.org
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1.3 curl 7.40.0 :(7 Jan 2015)

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1.6 eventlog 0.2.13

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Upstream Author: Scheidler Balazs <bazsi@balabit.hu>

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1.7 glib 2.43.4 :Feb 10 2015 Matthias Clasen

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1.8 glibc 2.12.1

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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!
/* 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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1.25 openssh 6.7p1 :20131006

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```
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 *
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```

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

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* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
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*/
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1.28 openssl/crypto 1.0.1m :1

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1.29 pcre 8.36 :26-September-2014

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1.30 popt 1.16

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1.31 procps-ng 3.3.9

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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

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1.32 readline 5.2

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1.33 schedutils 1.5.0 :4mdv2009

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1.35 syslog-ng 3.6.2

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FAQ:
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Q: Is it possible to create derived works of syslog-ng under the GPL/LGPL
licenses?

A: Yes, that's exactly the point of open source. Works derived from the
plugins will have to use the GPL license, but you can choose to use LGPL for
them as well.

Q: Do I need to sign a Contributory License Agreement in order for my
contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to
have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the

syslog-ng core but not derived works of other plugins. Thus, non-free
plugins are possible, provided they do not link to any of the GPLd plugins
explicitly and the only connection between two plugins is via the syslog-ng
core.

Q: Who is permitted to create non-free plugins for syslog-ng? Is it just
BalaBit (the current copyright holder as of the initial 3.2 release)?

A: No, everyone including BalaBit.
This is syslog-ng, written and maintained by <bazsi@balabit.hu>
on Sat, 03 Mar 2007 16:07:59 +0100

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/* A Bison parser, made by GNU Bison 3.0.2. */

/* Bison implementation for Yacc-like parsers in C

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/* As a special exception, you may create a larger work that contains
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   version 2.2 of Bison.  */

/* C LALR(1) parser skeleton written by Richard Stallman, by
   simplifying the original so-called "semantic" parser.  */

/* All symbols defined below should begin with yy or YY, to avoid
   infringing on user name space.  This should be done even for local
   variables, as they might otherwise be expanded by user macros.
   There are some unavoidable exceptions within include files to
   define necessary library symbols; they are noted "INFRINGES ON
   USER NAME SPACE" below.  */

/* Identify Bison output.  */
#define YYBISON 1

/* Bison version.  */
#define YYBISON_VERSION "3.0.2"

/* Skeleton name.  */
#define YYSKELETON_NAME "yacc.c"

/* Pure parsers.  */
#define YYPURE 1

/* Push parsers.  */
#define YYPUSH 0

/* Pull parsers.  */
#define YYPULL 1


/* Substitute the variable and function names.  */
```

```
#define yyparse         rewrite_expr_parse
#define yylex           rewrite_expr_lex
#define yyerror         rewrite_expr_error
#define yydebug         rewrite_expr_debug
#define yynerrs         rewrite_expr_nerrs


/* Copy the first part of user declarations.  */

#line 73 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:339  */

# ifndef YY_NULLPTR
#  if defined __cplusplus && 201103L <= __cplusplus
#   define YY_NULLPTR nullptr
#  else
#   define YY_NULLPTR 0
#  endif
# endif

/* Enabling verbose error messages.  */
#ifdef YYERROR_VERBOSE
# undef YYERROR_VERBOSE
# define YYERROR_VERBOSE 1
#else
# define YYERROR_VERBOSE 1
#endif

/* In a future release of Bison, this section will be replaced
  by #include "y.tab.h".  */
#ifndef YY_REWRITE_EXPR_LIB_REWRITE_REWRITE_EXPR_GRAMMAR_H_INCLUDED
# define YY_REWRITE_EXPR_LIB_REWRITE_REWRITE_EXPR_GRAMMAR_H_INCLUDED
/* Debug traces.  */
#ifndef YYDEBUG
# define YYDEBUG 0
#endif
#if YYDEBUG
extern int rewrite_expr_debug;
#endif
/* "%code requires" blocks.  */
#line 25 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:355  */


#include "rewrite/rewrite-expr-parser.h"


#line 109 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:355  */

/* Token type.  */
```

```
#ifndef YYTOKENTYPE
# define YYTOKENTYPE
 enum yytokentype
 {
   LL_CONTEXT_ROOT = 1,
   LL_CONTEXT_DESTINATION = 2,
   LL_CONTEXT_SOURCE = 3,
   LL_CONTEXT_PARSER = 4,
   LL_CONTEXT_REWRITE = 5,
   LL_CONTEXT_FILTER = 6,
   LL_CONTEXT_LOG = 7,
   LL_CONTEXT_BLOCK_DEF = 8,
   LL_CONTEXT_BLOCK_REF = 9,
   LL_CONTEXT_BLOCK_CONTENT = 10,
   LL_CONTEXT_BLOCK_ARG = 11,
   LL_CONTEXT_PRAGMA = 12,
   LL_CONTEXT_FORMAT = 13,
   LL_CONTEXT_TEMPLATE_FUNC = 14,
   LL_CONTEXT_INNER_DEST = 15,
   LL_CONTEXT_INNER_SRC = 16,
   LL_CONTEXT_CLIENT_PROTO = 17,
   LL_CONTEXT_SERVER_PROTO = 18,
   KW_SOURCE = 10000,
   KW_FILTER = 10001,
   KW_PARSER = 10002,
   KW_DESTINATION = 10003,
   KW_LOG = 10004,
   KW_OPTIONS = 10005,
   KW_INCLUDE = 10006,
   KW_BLOCK = 10007,
   KW_JUNCTION = 10008,
   KW_CHANNEL = 10009,
   KW_INTERNAL = 10010,
   KW_FILE = 10011,
   KW_SQL = 10030,
   KW_TYPE = 10031,
   KW_COLUMNS = 10032,
   KW_INDEXES = 10033,
   KW_VALUES = 10034,
   KW_PASSWORD = 10035,
   KW_DATABASE = 10036,
   KW_USERNAME = 10037,
   KW_TABLE = 10038,
   KW_ENCODING = 10039,
   KW_SESSION_STATEMENTS = 10040,
   KW_DELIMITERS = 10050,
   KW_QUOTES = 10051,
   KW_QUOTE_PAIRS = 10052,
```

KW_NULL = 10053,
KW_SYSLOG = 10060,
KW_MARK_FREQ = 10071,
KW_STATS_FREQ = 10072,
KW_STATS_LEVEL = 10073,
KW_STATS_LIFETIME = 10074,
KW_FLUSH_LINES = 10075,
KW_SUPPRESS = 10076,
KW_FLUSH_TIMEOUT = 10077,
KW_LOG_MSG_SIZE = 10078,
KW_FILE_TEMPLATE = 10079,
KW_PROTO_TEMPLATE = 10080,
KW_MARK_MODE = 10081,
KW_CHAIN_HOSTNAMES = 10090,
KW_NORMALIZE_HOSTNAMES = 10091,
KW_KEEP_HOSTNAME = 10092,
KW_CHECK_HOSTNAME = 10093,
KW_BAD_HOSTNAME = 10094,
KW_KEEP_TIMESTAMP = 10100,
KW_USE_DNS = 10110,
KW_USE_FQDN = 10111,
KW_CUSTOM_DOMAIN = 10112,
KW_DNS_CACHE = 10120,
KW_DNS_CACHE_SIZE = 10121,
KW_DNS_CACHE_EXPIRE = 10130,
KW_DNS_CACHE_EXPIRE_FAILED = 10131,
KW_DNS_CACHE_HOSTS = 10132,
KW_PERSIST_ONLY = 10140,
KW_USE_RCPTID = 10141,
KW_TZ_CONVERT = 10150,
KW_TS_FORMAT = 10151,
KW_FRAC_DIGITS = 10152,
KW_LOG_FIFO_SIZE = 10160,
KW_LOG_FETCH_LIMIT = 10162,
KW_LOG_IW_SIZE = 10163,
KW_LOG_PREFIX = 10164,
KW_PROGRAM_OVERRIDE = 10165,
KW_HOST_OVERRIDE = 10166,
KW_THROTTLE = 10170,
KW_THREADED = 10171,
KW_FLAGS = 10190,
KW_PAD_SIZE = 10200,
KW_TIME_ZONE = 10201,
KW_RECV_TIME_ZONE = 10202,
KW_SEND_TIME_ZONE = 10203,
KW_LOCAL_TIME_ZONE = 10204,
KW_FORMAT = 10205,
KW_TIME_REOPEN = 10210,

KW_TIME_REAP = 10211,
KW_TIME_SLEEP = 10212,
KW_TMPL_ESCAPE = 10220,
KW_OPTIONAL = 10230,
KW_CREATE_DIRS = 10240,
KW_OWNER = 10250,
KW_GROUP = 10251,
KW_PERM = 10252,
KW_DIR_OWNER = 10260,
KW_DIR_GROUP = 10261,
KW_DIR_PERM = 10262,
KW_TEMPLATE = 10270,
KW_TEMPLATE_ESCAPE = 10271,
KW_DEFAULT_FACILITY = 10300,
KW_DEFAULT_LEVEL = 10301,
KW_PORT = 10323,
KW_USE_TIME_RECVD = 10340,
KW_FACILITY = 10350,
KW_LEVEL = 10351,
KW_HOST = 10352,
KW_MATCH = 10353,
KW_MESSAGE = 10354,
KW_NETMASK = 10355,
KW_TAGS = 10356,
KW_VALUE = 10361,
KW_REWRITE = 10370,
KW_SET = 10371,
KW_SUBST = 10372,
KW_YES = 10380,
KW_NO = 10381,
KW_IFDEF = 10410,
KW_ENDIF = 10411,
LL_DOTDOT = 10420,
LL_IDENTIFIER = 10421,
LL_NUMBER = 10422,
LL_FLOAT = 10423,
LL_STRING = 10424,
LL_TOKEN = 10425,
LL_BLOCK = 10426,
LL_PRAGMA = 10427,
LL_EOL = 10428,
LL_ERROR = 10429,
KW_VALUE_PAIRS = 10500,
KW_SELECT = 10501,
KW_EXCLUDE = 10502,
KW_PAIR = 10503,
KW_KEY = 10504,
KW_SCOPE = 10505,

```
  KW_SHIFT = 10506,
  KW_REKEY = 10507,
  KW_ADD_PREFIX = 10508,
  KW_REPLACE_PREFIX = 10509,
  KW_ON_ERROR = 10510,
  KW_RETRIES = 10511,
  KW_CONDITION = 10513,
  KW_SET_TAG = 10514,
  KW_CLEAR_TAG = 10515,
  KW_GROUP_SET = 10516
 };
#endif
/* Tokens.  */
#define LL_CONTEXT_ROOT 1
#define LL_CONTEXT_DESTINATION 2
#define LL_CONTEXT_SOURCE 3
#define LL_CONTEXT_PARSER 4
#define LL_CONTEXT_REWRITE 5
#define LL_CONTEXT_FILTER 6
#define LL_CONTEXT_LOG 7
#define LL_CONTEXT_BLOCK_DEF 8
#define LL_CONTEXT_BLOCK_REF 9
#define LL_CONTEXT_BLOCK_CONTENT 10
#define LL_CONTEXT_BLOCK_ARG 11
#define LL_CONTEXT_PRAGMA 12
#define LL_CONTEXT_FORMAT 13
#define LL_CONTEXT_TEMPLATE_FUNC 14
#define LL_CONTEXT_INNER_DEST 15
#define LL_CONTEXT_INNER_SRC 16
#define LL_CONTEXT_CLIENT_PROTO 17
#define LL_CONTEXT_SERVER_PROTO 18
#define KW_SOURCE 10000
#define KW_FILTER 10001
#define KW_PARSER 10002
#define KW_DESTINATION 10003
#define KW_LOG 10004
#define KW_OPTIONS 10005
#define KW_INCLUDE 10006
#define KW_BLOCK 10007
#define KW_JUNCTION 10008
#define KW_CHANNEL 10009
#define KW_INTERNAL 10010
#define KW_FILE 10011
#define KW_SQL 10030
#define KW_TYPE 10031
#define KW_COLUMNS 10032
#define KW_INDEXES 10033
#define KW_VALUES 10034
```

```
#define KW_PASSWORD 10035
#define KW_DATABASE 10036
#define KW_USERNAME 10037
#define KW_TABLE 10038
#define KW_ENCODING 10039
#define KW_SESSION_STATEMENTS 10040
#define KW_DELIMITERS 10050
#define KW_QUOTES 10051
#define KW_QUOTE_PAIRS 10052
#define KW_NULL 10053
#define KW_SYSLOG 10060
#define KW_MARK_FREQ 10071
#define KW_STATS_FREQ 10072
#define KW_STATS_LEVEL 10073
#define KW_STATS_LIFETIME 10074
#define KW_FLUSH_LINES 10075
#define KW_SUPPRESS 10076
#define KW_FLUSH_TIMEOUT 10077
#define KW_LOG_MSG_SIZE 10078
#define KW_FILE_TEMPLATE 10079
#define KW_PROTO_TEMPLATE 10080
#define KW_MARK_MODE 10081
#define KW_CHAIN_HOSTNAMES 10090
#define KW_NORMALIZE_HOSTNAMES 10091
#define KW_KEEP_HOSTNAME 10092
#define KW_CHECK_HOSTNAME 10093
#define KW_BAD_HOSTNAME 10094
#define KW_KEEP_TIMESTAMP 10100
#define KW_USE_DNS 10110
#define KW_USE_FQDN 10111
#define KW_CUSTOM_DOMAIN 10112
#define KW_DNS_CACHE 10120
#define KW_DNS_CACHE_SIZE 10121
#define KW_DNS_CACHE_EXPIRE 10130
#define KW_DNS_CACHE_EXPIRE_FAILED 10131
#define KW_DNS_CACHE_HOSTS 10132
#define KW_PERSIST_ONLY 10140
#define KW_USE_RCPTID 10141
#define KW_TZ_CONVERT 10150
#define KW_TS_FORMAT 10151
#define KW_FRAC_DIGITS 10152
#define KW_LOG_FIFO_SIZE 10160
#define KW_LOG_FETCH_LIMIT 10162
#define KW_LOG_IW_SIZE 10163
#define KW_LOG_PREFIX 10164
#define KW_PROGRAM_OVERRIDE 10165
#define KW_HOST_OVERRIDE 10166
#define KW_THROTTLE 10170
```

```
#define KW_THREADED 10171
#define KW_FLAGS 10190
#define KW_PAD_SIZE 10200
#define KW_TIME_ZONE 10201
#define KW_RECV_TIME_ZONE 10202
#define KW_SEND_TIME_ZONE 10203
#define KW_LOCAL_TIME_ZONE 10204
#define KW_FORMAT 10205
#define KW_TIME_REOPEN 10210
#define KW_TIME_REAP 10211
#define KW_TIME_SLEEP 10212
#define KW_TMPL_ESCAPE 10220
#define KW_OPTIONAL 10230
#define KW_CREATE_DIRS 10240
#define KW_OWNER 10250
#define KW_GROUP 10251
#define KW_PERM 10252
#define KW_DIR_OWNER 10260
#define KW_DIR_GROUP 10261
#define KW_DIR_PERM 10262
#define KW_TEMPLATE 10270
#define KW_TEMPLATE_ESCAPE 10271
#define KW_DEFAULT_FACILITY 10300
#define KW_DEFAULT_LEVEL 10301
#define KW_PORT 10323
#define KW_USE_TIME_RECVD 10340
#define KW_FACILITY 10350
#define KW_LEVEL 10351
#define KW_HOST 10352
#define KW_MATCH 10353
#define KW_MESSAGE 10354
#define KW_NETMASK 10355
#define KW_TAGS 10356
#define KW_VALUE 10361
#define KW_REWRITE 10370
#define KW_SET 10371
#define KW_SUBST 10372
#define KW_YES 10380
#define KW_NO 10381
#define KW_IFDEF 10410
#define KW_ENDIF 10411
#define LL_DOTDOT 10420
#define LL_IDENTIFIER 10421
#define LL_NUMBER 10422
#define LL_FLOAT 10423
#define LL_STRING 10424
#define LL_TOKEN 10425
#define LL_BLOCK 10426
```

```
#define LL_PRAGMA 10427
#define LL_EOL 10428
#define LL_ERROR 10429
#define KW_VALUE_PAIRS 10500
#define KW_SELECT 10501
#define KW_EXCLUDE 10502
#define KW_PAIR 10503
#define KW_KEY 10504
#define KW_SCOPE 10505
#define KW_SHIFT 10506
#define KW_REKEY 10507
#define KW_ADD_PREFIX 10508
#define KW_REPLACE_PREFIX 10509
#define KW_ON_ERROR 10510
#define KW_RETRIES 10511
#define KW_CONDITION 10513
#define KW_SET_TAG 10514
#define KW_CLEAR_TAG 10515
#define KW_GROUP_SET 10516

/* Value type.  */

/* Location type.  */
#if ! defined YYLTYPE && ! defined YYLTYPE_IS_DECLARED
typedef struct YYLTYPE YYLTYPE;
struct YYLTYPE
{
 int first_line;
 int first_column;
 int last_line;
 int last_column;
};
# define YYLTYPE_IS_DECLARED 1
# define YYLTYPE_IS_TRIVIAL 1
#endif



int rewrite_expr_parse (CfgLexer *lexer, LogExprNode **result, gpointer arg);

#endif /* !YY_REWRITE_EXPR_LIB_REWRITE_REWRITE_EXPR_GRAMMAR_H_INCLUDED  */

/* Copy the second part of user declarations.  */

#line 444 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:358  */
/* Unqualified %code blocks.  */
#line 31 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:359  */
```

```
#include "rewrite/rewrite-expr-grammar.h"
#include "rewrite/rewrite-set-tag.h"
#include "rewrite/rewrite-set.h"
#include "rewrite/rewrite-subst.h"
#include "rewrite/rewrite-groupset.h"
#include "filter/filter-expr.h"
#include "filter/filter-expr-parser.h"
#include "cfg-grammar.h"
#include "syslog-names.h"
#include "plugin.h"

#include <string.h>

LogRewrite *last_rewrite;

#line 67 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:359  */


# define YYLLOC_DEFAULT(Current, Rhs, N)                                \
 do {                                                                   \
   if (N)                                                               \
     {                                                                  \
       (Current).level = YYRHSLOC(Rhs, 1).level;                       \
       (Current).first_line   = YYRHSLOC (Rhs, 1).first_line;          \
       (Current).first_column = YYRHSLOC (Rhs, 1).first_column;        \
       (Current).last_line    = YYRHSLOC (Rhs, N).last_line;           \
       (Current).last_column  = YYRHSLOC (Rhs, N).last_column;         \
     }                                                                  \
   else                                                                 \
     {                                                                  \
       (Current).level = YYRHSLOC(Rhs, 0).level;                       \
       (Current).first_line   = (Current).last_line   =                \
         YYRHSLOC (Rhs, 0).last_line;                                   \
       (Current).first_column = (Current).last_column =                \
         YYRHSLOC (Rhs, 0).last_column;                                 \
     }                                                                  \
 } while (0)

#define CHECK_ERROR_WITHOUT_MESSAGE(val, token) do {                    \
   if (!(val))                                                          \
     {                                                                  \
       YYERROR;                                                         \
     }                                                                  \
 } while (0)

#define CHECK_ERROR(val, token, errorfmt, ...) do {                     \
   if (!(val))                                                          \
```

```
    {                                           \
      if (errorfmt)                                 \
        {                                       \
          gchar __buf[256];                             \
          g_snprintf(__buf, sizeof(__buf), errorfmt, ## __VA_ARGS__); \
          yyerror(& (token), lexer, NULL, NULL, __buf);             \
        }                                       \
      YYERROR;                                      \
    }                                           \
  } while (0)

#define CHECK_ERROR_GERROR(val, token, error, errorfmt, ...) do {       \
   if (!(val))                                      \
    {                                           \
      if (errorfmt)                                 \
        {                                       \
          gchar __buf[256];                             \
          g_snprintf(__buf, sizeof(__buf), errorfmt ", error=%s", ## __VA_ARGS__, error->message); \
          yyerror(& (token), lexer, NULL, NULL, __buf);             \
        }                                       \
      g_clear_error(&error);      \
      YYERROR;                                      \
    }                                           \
  } while (0)

#define YYMAXDEPTH 20000



#line 525 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:359  */

#ifdef short
# undef short
#endif

#ifdef YYTYPE_UINT8
typedef YYTYPE_UINT8 yytype_uint8;
#else
typedef unsigned char yytype_uint8;
#endif

#ifdef YYTYPE_INT8
typedef YYTYPE_INT8 yytype_int8;
#else
typedef signed char yytype_int8;
#endif

#ifdef YYTYPE_UINT16
```

```
typedef YYTYPE_UINT16 yytype_uint16;
#else
typedef unsigned short int yytype_uint16;
#endif

#ifdef YYTYPE_INT16
typedef YYTYPE_INT16 yytype_int16;
#else
typedef short int yytype_int16;
#endif

#ifndef YYSIZE_T
# ifdef __SIZE_TYPE__
#  define YYSIZE_T __SIZE_TYPE__
# elif defined size_t
#  define YYSIZE_T size_t
# elif ! defined YYSIZE_T
#  include <stddef.h> /* INFRINGES ON USER NAME SPACE */
#  define YYSIZE_T size_t
# else
#  define YYSIZE_T unsigned int
# endif
#endif

#define YYSIZE_MAXIMUM ((YYSIZE_T) -1)

#ifndef YY_
# if defined YYENABLE_NLS && YYENABLE_NLS
#  if ENABLE_NLS
#   include <libintl.h> /* INFRINGES ON USER NAME SPACE */
#   define YY_(Msgid) dgettext ("bison-runtime", Msgid)
#  endif
# endif
# ifndef YY_
#  define YY_(Msgid) Msgid
# endif
#endif

#ifndef YY_ATTRIBUTE
# if (defined __GNUC__                                               \
    && (2 < __GNUC__ || (__GNUC__ == 2 && 96 <= __GNUC_MINOR__)))  \
   || defined __SUNPRO_C && 0x5110 <= __SUNPRO_C
#  define YY_ATTRIBUTE(Spec) __attribute__(Spec)
# else
#  define YY_ATTRIBUTE(Spec) /* empty */
# endif
#endif
```

```
#ifndef YY_ATTRIBUTE_PURE
# define YY_ATTRIBUTE_PURE   YY_ATTRIBUTE ((__pure__))
#endif

#ifndef YY_ATTRIBUTE_UNUSED
# define YY_ATTRIBUTE_UNUSED YY_ATTRIBUTE ((__unused__))
#endif

#if !defined _Noreturn \
   && (!defined __STDC_VERSION__ || __STDC_VERSION__ < 201112)
# if defined _MSC_VER && 1200 <= _MSC_VER
#  define _Noreturn __declspec (noreturn)
# else
#  define _Noreturn YY_ATTRIBUTE ((__noreturn__))
# endif
#endif

/* Suppress unused-variable warnings by "using" E.  */
#if ! defined lint || defined __GNUC__
# define YYUSE(E) ((void) (E))
#else
# define YYUSE(E) /* empty */
#endif

#if defined __GNUC__ && 407 <= __GNUC__ * 100 + __GNUC_MINOR__
/* Suppress an incorrect diagnostic about yylval being uninitialized.  */
# define YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN \
  _Pragma ("GCC diagnostic push") \
  _Pragma ("GCC diagnostic ignored \"-Wuninitialized\"")\
  _Pragma ("GCC diagnostic ignored \"-Wmaybe-uninitialized\"")
# define YY_IGNORE_MAYBE_UNINITIALIZED_END \
  _Pragma ("GCC diagnostic pop")
#else
# define YY_INITIAL_VALUE(Value) Value
#endif
#ifndef YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
# define YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
# define YY_IGNORE_MAYBE_UNINITIALIZED_END
#endif
#ifndef YY_INITIAL_VALUE
# define YY_INITIAL_VALUE(Value) /* Nothing. */
#endif


#if ! defined yyoverflow || YYERROR_VERBOSE

/* The parser invokes alloca or malloc; define the necessary symbols.  */
```

```
# ifdef YYSTACK_USE_ALLOCA
#  if YYSTACK_USE_ALLOCA
#   ifdef __GNUC__
#    define YYSTACK_ALLOC __builtin_alloca
#   elif defined __BUILTIN_VA_ARG_INCR
#    include <alloca.h> /* INFRINGES ON USER NAME SPACE */
#   elif defined _AIX
#    define YYSTACK_ALLOC __alloca
#   elif defined _MSC_VER
#    include <malloc.h> /* INFRINGES ON USER NAME SPACE */
#    define alloca _alloca
#   else
#    define YYSTACK_ALLOC alloca
#    if ! defined _ALLOCA_H && ! defined EXIT_SUCCESS
#     include <stdlib.h> /* INFRINGES ON USER NAME SPACE */
     /* Use EXIT_SUCCESS as a witness for stdlib.h.  */
#     ifndef EXIT_SUCCESS
#      define EXIT_SUCCESS 0
#     endif
#    endif
#   endif
#  endif
# endif

# ifdef YYSTACK_ALLOC
  /* Pacify GCC's 'empty if-body' warning.  */
#  define YYSTACK_FREE(Ptr) do { /* empty */; } while (0)
#  ifndef YYSTACK_ALLOC_MAXIMUM
   /* The OS might guarantee only one guard page at the bottom of the stack,
      and a page size can be as small as 4096 bytes.  So we cannot safely
      invoke alloca (N) if N exceeds 4096.  Use a slightly smaller number
      to allow for a few compiler-allocated temporary stack slots.  */
#   define YYSTACK_ALLOC_MAXIMUM 4032 /* reasonable circa 2006 */
#  endif
# else
#  define YYSTACK_ALLOC YYMALLOC
#  define YYSTACK_FREE YYFREE
#  ifndef YYSTACK_ALLOC_MAXIMUM
#   define YYSTACK_ALLOC_MAXIMUM YYSIZE_MAXIMUM
#  endif
#  if (defined __cplusplus && ! defined EXIT_SUCCESS \
      && ! ((defined YYMALLOC || defined malloc) \
            && (defined YYFREE || defined free)))
#   include <stdlib.h> /* INFRINGES ON USER NAME SPACE */
#   ifndef EXIT_SUCCESS
#    define EXIT_SUCCESS 0
#   endif
#  endif
```

```
#  ifndef YYMALLOC
#   define YYMALLOC malloc
#   if ! defined malloc && ! defined EXIT_SUCCESS
void *malloc (YYSIZE_T); /* INFRINGES ON USER NAME SPACE */
#   endif
#  endif
#  ifndef YYFREE
#   define YYFREE free
#   if ! defined free && ! defined EXIT_SUCCESS
void free (void *); /* INFRINGES ON USER NAME SPACE */
#   endif
#  endif
# endif
#endif /* ! defined yyoverflow || YYERROR_VERBOSE */


#if (! defined yyoverflow \
   && (! defined __cplusplus \
      || (defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL \
         && defined YYSTYPE_IS_TRIVIAL && YYSTYPE_IS_TRIVIAL)))

/* A type that is properly aligned for any stack member.  */
union yyalloc
{
 yytype_int16 yyss_alloc;
 YYSTYPE yyvs_alloc;
 YYLTYPE yyls_alloc;
};

/* The size of the maximum gap between one aligned stack and the next.  */
# define YYSTACK_GAP_MAXIMUM (sizeof (union yyalloc) - 1)

/* The size of an array large to enough to hold all stacks, each with
  N elements.  */
# define YYSTACK_BYTES(N) \
   ((N) * (sizeof (yytype_int16) + sizeof (YYSTYPE) + sizeof (YYLTYPE)) \
    + 2 * YYSTACK_GAP_MAXIMUM)

# define YYCOPY_NEEDED 1

/* Relocate STACK from its old location to the new one.  The
  local variables YYSIZE and YYSTACKSIZE give the old and new number of
  elements in the stack, and YYPTR gives the new location of the
  stack.  Advance YYPTR to a properly aligned location for the next
  stack.  */
# define YYSTACK_RELOCATE(Stack_alloc, Stack)                     \
   do                                                             \
    {                                                             \
```

```
      YYSIZE_T yynewbytes;                                      \
      YYCOPY (&yyptr->Stack_alloc, Stack, yysize);              \
      Stack = &yyptr->Stack_alloc;                              \
      yynewbytes = yystacksize * sizeof (*Stack) + YYSTACK_GAP_MAXIMUM; \
      yyptr += yynewbytes / sizeof (*yyptr);                    \
    }                                                           \
  while (0)

#endif

#if defined YYCOPY_NEEDED && YYCOPY_NEEDED
/* Copy COUNT objects from SRC to DST.  The source and destination do
  not overlap.  */
# ifndef YYCOPY
#  if defined __GNUC__ && 1 < __GNUC__
#   define YYCOPY(Dst, Src, Count) \
    __builtin_memcpy (Dst, Src, (Count) * sizeof (*(Src)))
#  else
#   define YYCOPY(Dst, Src, Count)            \
    do                                        \
      {                                       \
        YYSIZE_T yyi;                         \
        for (yyi = 0; yyi < (Count); yyi++)   \
          (Dst)[yyi] = (Src)[yyi];            \
      }                                       \
    while (0)
#  endif
# endif
#endif /* !YYCOPY_NEEDED */

/* YYFINAL -- State number of the termination state.  */
#define YYFINAL  18
/* YYLAST -- Last index in YYTABLE.  */
#define YYLAST   205

/* YYNTOKENS -- Number of terminals.  */
#define YYNTOKENS  159
/* YYNNTS -- Number of nonterminals.  */
#define YYNNTS  57
/* YYNRULES -- Number of rules.  */
#define YYNRULES  110
/* YYNSTATES -- Number of states.  */
#define YYNSTATES  232

/* YYTRANSLATE[YYX] -- Symbol number corresponding to YYX as returned
  by yylex, with out-of-bounds checking.  */
#define YYUNDEFTOK  2
#define YYMAXUTOK   10516
```

```
#define YYTRANSLATE(YYX)                                    \
 ((unsigned int) (YYX) <= YYMAXUTOK ? yytranslate[YYX] : YYUNDEFTOK)

/* YYTRANSLATE[TOKEN-NUM] -- Symbol number corresponding to TOKEN-NUM
  as returned by yylex, without out-of-bounds checking.  */
static const yytype_uint8 yytranslate[] =
{
     0,     3,     4,     5,     6,     7,     8,     9,    10,    11,
    12,    13,    14,    15,    16,    17,    18,    19,    20,     2,
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   153,   154,     2,     2,     2,     2,     2,     2,     2,     2,
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  147,  148,    2,  149,  150,  151,  152
};

#if YYDEBUG
 /* YYRLINE[YYN] -- Source line where rule number YYN was defined.  */
static const yytype_uint16 yyrline[] =
{
    0,  387,  387,  391,  392,  393,  397,  409,  408,  421,
  420,  426,  427,  429,  428,  435,  454,  455,  459,  463,
  467,  468,  472,  472,  473,  477,  478,  482,  497,  502,
  501,  514,  516,  514,  523,  524,  525,  529,  530,  534,
  553,  557,  557,  565,  566,  570,  575,  586,  596,  605,
  607,  605,  616,  617,  618,  622,  626,  645,  646,  650,
  651,  652,  653,  654,  655,  656,  657,  658,  659,  660,
  664,  676,  681,  682,  686,  687,  691,  695,  696,  700,
  701,  732,  733,  737,  738,  739,  743,  744,  754,  758,
  759,  763,  764,  810,  811,  812,  813,  814,  815,  816,
  817,  818,  818,  831,  832,  833,  834,  978,  979,  983,
  984
};
#endif

#if YYDEBUG || YYERROR_VERBOSE || 1
/* YYTNAME[SYMBOL-NUM] -- String name of the symbol SYMBOL-NUM.
  First, the terminals, then, starting at YYNTOKENS, nonterminals.  */
static const char *const yytname[] =
{
 "$end", "error", "$undefined", "LL_CONTEXT_ROOT",
 "LL_CONTEXT_DESTINATION", "LL_CONTEXT_SOURCE", "LL_CONTEXT_PARSER",
 "LL_CONTEXT_REWRITE", "LL_CONTEXT_FILTER", "LL_CONTEXT_LOG",
 "LL_CONTEXT_BLOCK_DEF", "LL_CONTEXT_BLOCK_REF",
 "LL_CONTEXT_BLOCK_CONTENT", "LL_CONTEXT_BLOCK_ARG", "LL_CONTEXT_PRAGMA",
 "LL_CONTEXT_FORMAT", "LL_CONTEXT_TEMPLATE_FUNC", "LL_CONTEXT_INNER_DEST",
 "LL_CONTEXT_INNER_SRC", "LL_CONTEXT_CLIENT_PROTO",
 "LL_CONTEXT_SERVER_PROTO", "KW_SOURCE", "KW_FILTER", "KW_PARSER",
 "KW_DESTINATION", "KW_LOG", "KW_OPTIONS", "KW_INCLUDE", "KW_BLOCK",
 "KW_JUNCTION", "KW_CHANNEL", "KW_INTERNAL", "KW_FILE", "KW_SQL",
 "KW_TYPE", "KW_COLUMNS", "KW_INDEXES", "KW_VALUES", "KW_PASSWORD",
 "KW_DATABASE", "KW_USERNAME", "KW_TABLE", "KW_ENCODING",
 "KW_SESSION_STATEMENTS", "KW_DELIMITERS", "KW_QUOTES", "KW_QUOTE_PAIRS",
 "KW_NULL", "KW_SYSLOG", "KW_MARK_FREQ", "KW_STATS_FREQ",
 "KW_STATS_LEVEL", "KW_STATS_LIFETIME", "KW_FLUSH_LINES", "KW_SUPPRESS",
 "KW_FLUSH_TIMEOUT", "KW_LOG_MSG_SIZE", "KW_FILE_TEMPLATE",
 "KW_PROTO_TEMPLATE", "KW_MARK_MODE", "KW_CHAIN_HOSTNAMES",
 "KW_NORMALIZE_HOSTNAMES", "KW_KEEP_HOSTNAME", "KW_CHECK_HOSTNAME",
```

```
 "KW_BAD_HOSTNAME", "KW_KEEP_TIMESTAMP", "KW_USE_DNS", "KW_USE_FQDN",
 "KW_CUSTOM_DOMAIN", "KW_DNS_CACHE", "KW_DNS_CACHE_SIZE",
 "KW_DNS_CACHE_EXPIRE", "KW_DNS_CACHE_EXPIRE_FAILED",
 "KW_DNS_CACHE_HOSTS", "KW_PERSIST_ONLY", "KW_USE_RCPTID",
 "KW_TZ_CONVERT", "KW_TS_FORMAT", "KW_FRAC_DIGITS", "KW_LOG_FIFO_SIZE",
 "KW_LOG_FETCH_LIMIT", "KW_LOG_IW_SIZE", "KW_LOG_PREFIX",
 "KW_PROGRAM_OVERRIDE", "KW_HOST_OVERRIDE", "KW_THROTTLE", "KW_THREADED",
 "KW_FLAGS", "KW_PAD_SIZE", "KW_TIME_ZONE", "KW_RECV_TIME_ZONE",
 "KW_SEND_TIME_ZONE", "KW_LOCAL_TIME_ZONE", "KW_FORMAT", "KW_TIME_REOPEN",
 "KW_TIME_REAP", "KW_TIME_SLEEP", "KW_TMPL_ESCAPE", "KW_OPTIONAL",
 "KW_CREATE_DIRS", "KW_OWNER", "KW_GROUP", "KW_PERM", "KW_DIR_OWNER",
 "KW_DIR_GROUP", "KW_DIR_PERM", "KW_TEMPLATE", "KW_TEMPLATE_ESCAPE",
 "KW_DEFAULT_FACILITY", "KW_DEFAULT_LEVEL", "KW_PORT",
 "KW_USE_TIME_RECVD", "KW_FACILITY", "KW_LEVEL", "KW_HOST", "KW_MATCH",
 "KW_MESSAGE", "KW_NETMASK", "KW_TAGS", "KW_VALUE", "KW_REWRITE",
 "KW_SET", "KW_SUBST", "KW_YES", "KW_NO", "KW_IFDEF", "KW_ENDIF",
 "LL_DOTDOT", "LL_IDENTIFIER", "LL_NUMBER", "LL_FLOAT", "LL_STRING",
 "LL_TOKEN", "LL_BLOCK", "LL_PRAGMA", "LL_EOL", "LL_ERROR",
 "KW_VALUE_PAIRS", "KW_SELECT", "KW_EXCLUDE", "KW_PAIR", "KW_KEY",
 "KW_SCOPE", "KW_SHIFT", "KW_REKEY", "KW_ADD_PREFIX", "KW_REPLACE_PREFIX",
 "KW_ON_ERROR", "KW_RETRIES", "KW_CONDITION", "KW_SET_TAG",
 "KW_CLEAR_TAG", "KW_GROUP_SET", "'('", "')'", "'{'", "'}'", "';'", "':'",
 "$accept", "start", "rewrite_expr_list", "rewrite_template_content",
 "rewrite_expr", "$@1", "$@2", "$@3", "rewrite_groupset_opts",
 "rewrite_groupset_opt", "rewrite_subst_opts", "rewrite_subst_opt", "$@4",
 "rewrite_expr_opts", "rewrite_expr_opt", "rewrite_condition_opt", "$@5",
 "source_content", "$@6", "$@7", "source_items", "source_item",
 "source_plugin", "source_afinter", "source_afinter_params", "$@8",
 "source_afinter_options", "source_afinter_option", "filter_content",
 "parser_content", "rewrite_content", "dest_content", "$@9", "$@10",
 "dest_items", "dest_item", "dest_plugin", "log_items", "log_item",
 "log_junction", "log_last_junction", "log_forks", "log_fork",
 "log_content", "log_flags", "log_flags_items", "string", "yesno",
 "dnsmode", "string_list", "string_list_build", "semicolons",
 "source_option", "$@12", "host_resolve_option", "matcher_option",
 "matcher_flags", YY_NULLPTR
};
#endif

# ifdef YYPRINT
/* YYTOKNUM[NUM] -- (External) token number corresponding to the
   (internal) symbol number NUM (which must be that of a token).  */
static const yytype_uint16 yytoknum[] =
{
     0,   256, 10512,     1,     2,     3,     4,     5,     6,     7,
     8,     9,    10,    11,    12,    13,    14,    15,    16,    17,
    18, 10000, 10001, 10002, 10003, 10004, 10005, 10006, 10007, 10008,
 10009, 10010, 10011, 10030, 10031, 10032, 10033, 10034, 10035, 10036,
```

```
  10037, 10038, 10039, 10040, 10050, 10051, 10052, 10053, 10060, 10071,
  10072, 10073, 10074, 10075, 10076, 10077, 10078, 10079, 10080, 10081,
  10090, 10091, 10092, 10093, 10094, 10100, 10110, 10111, 10112, 10120,
  10121, 10130, 10131, 10132, 10140, 10141, 10150, 10151, 10152, 10160,
  10162, 10163, 10164, 10165, 10166, 10170, 10171, 10190, 10200, 10201,
  10202, 10203, 10204, 10205, 10210, 10211, 10212, 10220, 10230, 10240,
  10250, 10251, 10252, 10260, 10261, 10262, 10270, 10271, 10300, 10301,
  10323, 10340, 10350, 10351, 10352, 10353, 10354, 10355, 10356, 10361,
  10370, 10371, 10372, 10380, 10381, 10410, 10411, 10420, 10421, 10422,
  10423, 10424, 10425, 10426, 10427, 10428, 10429, 10500, 10501, 10502,
  10503, 10504, 10505, 10506, 10507, 10508, 10509, 10510, 10511, 10513,
  10514, 10515, 10516,    40,    41,   123,   125,    59,    58
};
# endif

#define YYPACT_NINF -106

#define yypact_value_is_default(Yystate) \
 (!!((Yystate) == (-106)))

#define YYTABLE_NINF -45

#define yytable_value_is_error(Yytable_value) \
 0

 /* YYPACT[STATE-NUM] -- Index in YYTABLE of the portion describing
    STATE-NUM.  */
static const yytype_int8 yypact[] =
{
    -15,   -87,   -73,   -65,  -106,   -59,   -58,   -57,    97,    17,
    -54,   -54,    17,   -75,   -75,   -75,   -75,   -75,  -106,   -55,
    -51,  -106,  -106,   -54,   -54,   -15,   -15,   -47,  -106,  -106,
   -106,  -106,   -75,   -49,   -44,  -106,    -6,    -6,    17,  -106,
   -106,  -106,  -106,   -97,  -106,  -106,  -106,   -34,  -104,   -89,
    -70,   -69,   -66,    17,   -54,  -106,   -35,   -32,  -106,   -52,
    -41,   -29,   -97,  -106,   -82,   -31,   -25,   -34,  -106,   -75,
   -106,   -75,  -106,   -75,  -106,   -75,  -106,   -75,  -106,    12,
     -6,  -106,  -106,   -75,  -106,  -106,  -106,   -21,   -82,   -22,
   -106,   -75,  -106,  -106,   -16,   -30,   -20,   -11,   -10,    -9,
     -8,    -5,    -3,   -17,    -2,    -1,   -12,  -106,  -106,     0,
      2,  -106,  -106,     4,     5,  -106,   -75,     6,  -106,  -106,
   -106,     8,  -106,  -106,   -54,  -106,  -106,   -54,  -106,  -106,
   -106,  -106,  -106,  -106,  -106,  -106,   -54,  -106,   -54,  -106,
   -106,   -75,  -106,  -106,   -75,   -75,  -106,  -106,  -106,  -106,
    -20,   -20,  -106,   -17,   -17,     9,   -75,    10,   -75,    11,
     13,   -56,  -106,  -106,  -106,  -106,   -54,  -106,  -106,  -106,
   -106,  -106,    15,    18,    19,    21,    26,    27,    28,    29,
   -106,   -56,  -106,   -26,  -106,   -85,   -85,   -85,    22,   -75,
```

```
   -75,   -75,   -75,  -106,    30,    31,    32,    33,  -106,  -106,
  -106,  -106,    34,    35,    36,    37,    38,    39,    40,    41,
   -85,   -53,   -85,   -85,  -106,  -106,  -106,  -106,  -106,  -106,
  -106,  -106,    42,  -106,  -106,    43,    44,    45,  -106,  -106,
  -106,  -106
};

 /* YYDEFACT[STATE-NUM] -- Default reduction number in state STATE-NUM.
    Performed when YYTABLE does not specify something else to do.  Zero
    means the default is an error.  */
static const yytype_uint8 yydefact[] =
{
     5,     0,     0,     0,    15,     0,     0,     0,     0,    73,
     0,     0,    73,     0,     0,     0,     0,     0,     1,     0,
     0,     2,    71,     0,    91,     5,     5,     0,    81,    82,
     9,     6,     0,     0,     0,    13,    58,    58,    73,    92,
     3,     4,    70,    26,     7,    11,    12,    17,     0,     0,
     0,     0,     0,    73,     0,    69,     0,     0,    72,     0,
     0,     0,    26,    28,    22,     0,     0,    17,    19,     0,
    31,     0,    46,     0,    47,     0,    49,     0,    48,    78,
    58,    74,    75,     0,    29,    10,    25,     0,    22,     0,
    24,    90,    14,    16,     0,     0,    36,     0,     0,     0,
     0,     0,     0,    54,     0,     0,     0,    76,    57,     0,
     0,     8,    20,     0,     0,    23,    90,     0,    88,    59,
    60,     0,    39,    32,     0,    38,    37,     0,    61,    62,
    63,    64,    67,    68,    56,    50,     0,    55,     0,    65,
    66,    80,    27,    30,     0,   110,    89,    18,    41,    33,
    36,    36,    51,    54,    54,     0,    80,     0,   110,     0,
     0,   101,    34,    35,    52,    53,     0,    79,   107,   109,
   108,    40,     0,     0,     0,     0,     0,     0,     0,     0,
    42,   101,    45,     0,    77,     0,     0,     0,     0,     0,
     0,     0,    90,    43,     0,     0,     0,     0,   102,    83,
    84,    85,     0,     0,     0,     0,     0,     0,     0,     0,
     0,     0,     0,     0,    94,    95,    99,    93,    98,    96,
    97,   100,     0,    87,    86,     0,     0,     0,   106,   104,
   103,   105
};

 /* YYPGOTO[NTERM-NUM].  */
static const yytype_int8 yypgoto[] =
{
  -106,  -106,    49,    16,  -106,  -106,  -106,  -106,    61,  -106,
    51,  -106,  -106,    78,   -28,   -13,  -106,  -106,  -106,  -106,
  -105,  -106,  -106,  -106,  -106,  -106,    23,  -106,  -106,  -106,
  -106,  -106,  -106,  -106,   -63,  -106,  -106,    67,  -106,    -7,
   106,    20,   -72,   113,  -106,    14,   -14,   -94,  -106,   -23,
    50,    -4,  -106,  -106,  -106,  -106,    47
};
```

```
 /* YYDEFGOTO[NTERM-NUM].  */
static const yytype_int16 yydefgoto[] =
{
    -1,     8,     9,    30,    10,    64,    43,    47,    66,    67,
    87,    88,    89,    61,    62,    63,   110,    95,    96,   149,
   123,   124,   125,   126,   160,   161,   180,   181,    98,   100,
   105,   102,   103,   152,   135,   136,   137,    53,    54,    11,
    21,    22,    23,    56,   107,   155,    31,   202,   225,   117,
   118,    25,   182,   183,   198,   115,   159
};

 /* YYTABLE[YYPACT[STATE-NUM]] -- What to do in state STATE-NUM.  If
    positive, shift that token.  If negative, reduce the rule whose
    number is the opposite.  If YYTABLE_NINF, syntax error.  */
static const yytype_int16 yytable[] =
{
    32,    33,    34,    65,   172,    19,   173,    26,    19,   174,
    20,   121,   113,    20,     1,    48,    49,    50,    51,    38,
    39,   223,    59,     1,   127,   175,   176,   177,   178,    55,
    55,   138,    27,    35,    68,   194,    90,    59,   199,   200,
   195,   196,    19,   197,   201,   162,   163,    20,    44,    69,
    80,    70,    60,    28,    68,    94,    29,    97,    58,    99,
    90,   101,   179,   104,    71,   114,    72,    60,    12,   109,
   199,   200,   -21,    55,    40,    41,   201,   116,   127,   127,
    13,   138,   138,    73,    75,    74,    76,    77,    14,    78,
   164,   165,   203,   204,    15,    16,    17,    18,   -44,   106,
    36,    83,   116,    24,    37,    45,     2,     3,   122,    42,
    46,   134,    84,     4,    52,    60,   222,   224,   226,   227,
   150,    81,    91,   151,    82,    85,   120,   156,    93,    92,
   157,   158,   153,   111,   154,     5,     6,     7,   119,   112,
    86,   141,   156,   128,   158,   130,   129,   108,   131,   132,
    57,   205,   139,   133,   142,   140,   143,   144,   145,    79,
   147,   148,   184,   166,   168,   170,   146,   171,   185,   209,
   167,   186,   187,     0,   188,   206,   207,   208,   116,   189,
   190,   191,   192,   210,   211,   212,   213,     0,   214,   215,
   216,   217,   218,   219,   220,   221,   228,   229,   230,   231,
     0,     0,     0,     0,   193,   169
};

static const yytype_int16 yycheck[] =
{
    14,    15,    16,    37,    60,    25,    62,    11,    25,    65,
    30,    31,    34,    30,    29,    21,    22,    23,    24,    23,
    24,    74,   119,    29,    96,    81,    82,    83,    84,    36,
    37,   103,    12,    17,    47,    61,    64,   119,   123,   124,
    66,    67,    25,    69,   129,   150,   151,    30,    32,   153,
    54,   155,   149,   128,    67,    69,   131,    71,    38,    73,
```

```
    88,   75,  118,   77,  153,   87,  155,  149,  155,   83,
   123,  124,  154,   80,   25,   26,  129,   91,  150,  151,
   153,  153,  154,  153,  153,  155,  155,  153,  153,  155,
   153,  154,  186,  187,  153,  153,  153,    0,  154,   87,
   155,  153,  116,  157,  155,  154,  121,  122,  128,  156,
   154,  128,  153,  128,  120,  149,  210,  211,  212,  213,
   124,  156,  153,  127,  156,  154,  156,  141,   67,  154,
   144,  145,  136,  154,  138,  150,  151,  152,  154,   88,
    62,  153,  156,  154,  158,  154,  156,   80,  156,  154,
    37,  129,  154,  156,  154,  156,  154,  153,  153,   53,
   154,  153,  166,  154,  154,  154,  116,  154,  153,  192,
   156,  153,  153,   -1,  153,  189,  190,  191,  192,  153,
   153,  153,  153,  153,  153,  153,  153,   -1,  154,  154,
   154,  154,  154,  154,  154,  154,  154,  154,  154,  154,
    -1,   -1,   -1,   -1,  181,  158
};

 /* YYSTOS[STATE-NUM] -- The (internal number of the) accessing
    symbol of state STATE-NUM.  */
static const yytype_uint8 yystos[] =
{
     0,   29,  121,  122,  128,  150,  151,  152,  160,  161,
   163,  198,  155,  153,  153,  153,  153,  153,    0,   25,
    30,  199,  200,  201,  157,  210,  210,  200,  128,  131,
   162,  205,  205,  205,  205,  162,  155,  155,  210,  210,
   161,  161,  156,  165,  162,  154,  154,  166,   21,   22,
    23,   24,  120,  196,  197,  198,  202,  202,  200,  119,
   149,  172,  173,  174,  164,   37,  167,  168,  174,  153,
   155,  153,  155,  153,  155,  153,  155,  153,  155,  199,
   210,  156,  156,  153,  153,  154,  172,  169,  170,  171,
   173,  153,  154,  167,  205,  176,  177,  205,  187,  205,
   188,  205,  190,  191,  205,  189,   87,  203,  196,  205,
   175,  154,  169,   34,   87,  214,  205,  208,  209,  154,
   156,   31,  128,  179,  180,  181,  182,  201,  154,  156,
   154,  156,  154,  156,  128,  193,  194,  195,  201,  154,
   156,  153,  154,  154,  153,  153,  209,  154,  153,  178,
   210,  210,  192,  210,  210,  204,  205,  205,  205,  215,
   183,  184,  179,  179,  193,  193,  154,  204,  154,  215,
   154,  154,   60,   62,   65,   81,   82,   83,   84,  118,
   185,  186,  211,  212,  210,  153,  153,  153,  153,  153,
   153,  153,  153,  185,   61,   66,   67,   69,  213,  123,
   124,  129,  206,  206,  206,  129,  205,  205,  205,  208,
   153,  153,  153,  153,  154,  154,  154,  154,  154,  154,
   154,  154,  206,   74,  206,  207,  206,  206,  154,  154,
   154,  154
};

 /* YYR1[YYN] -- Symbol number of symbol that rule YYN derives.  */
```

```
static const yytype_uint8 yyr1[] =
{
     0,  159,  160,  161,  161,  161,  162,  164,  163,  165,
   163,  163,  163,  166,  163,  163,  167,  167,  168,  168,
   169,  169,  171,  170,  170,  172,  172,  173,  173,  175,
   174,  177,  178,  176,  179,  179,  179,  180,  180,  181,
   182,  184,  183,  185,  185,  186,  187,  188,  189,  191,
   192,  190,  193,  193,  193,  194,  195,  196,  196,  197,
   197,  197,  197,  197,  197,  197,  197,  197,  197,  197,
   198,  199,  200,  200,  201,  201,  202,  203,  203,  204,
   204,  205,  205,  206,  206,  206,  207,  207,  208,  209,
   209,  210,  210,  211,  211,  211,  211,  211,  211,  211,
   211,  212,  211,  213,  213,  213,  213,  214,  214,  215,
   215
};

 /* YYR2[YYN] -- Number of symbols on the right hand side of rule YYN.  */
static const yytype_uint8 yyr2[] =
{
     0,    2,    2,    3,    3,    0,    1,    0,    7,    0,
     6,    4,    4,    0,    6,    1,    2,    0,    4,    1,
     2,    0,    0,    2,    1,    2,    0,    4,    1,    0,
     4,    0,    0,    3,    3,    3,    0,    1,    1,    1,
     4,    0,    2,    2,    0,    1,    0,    0,    0,    0,
     0,    3,    3,    3,    0,    1,    1,    3,    0,    4,
     4,    4,    4,    4,    4,    4,    4,    4,    4,    1,
     4,    1,    3,    0,    4,    4,    3,    5,    0,    2,
     0,    1,    1,    1,    1,    1,    1,    1,    1,    2,
     0,    1,    2,    4,    4,    4,    4,    4,    4,    4,
     4,    0,    2,    4,    4,    4,    4,    4,    4,    2,
     0
};


#define yyerrok         (yyerrstatus = 0)
#define yyclearin       (yychar = YYEMPTY)
#define YYEMPTY         (-2)
#define YYEOF           0

#define YYACCEPT        goto yyacceptlab
#define YYABORT         goto yyabortlab
#define YYERROR         goto yyerrorlab


#define YYRECOVERING()  (!!yyerrstatus)

#define YYBACKUP(Token, Value)                                  \
do                                                              \
```

```
 if (yychar == YYEMPTY)                                \
   {                                                   \
     yychar = (Token);                                 \
     yylval = (Value);                                 \
     YYPOPSTACK (yylen);                               \
     yystate = *yyssp;                                 \
     goto yybackup;                                    \
   }                                                   \
 else                                                  \
   {                                                   \
     yyerror (&yylloc, lexer, result, arg, YY_("syntax error: cannot back up")); \
     YYERROR;                                          \
   }                                                   \
while (0)

/* Error token number */
#define YYTERROR        1
#define YYERRCODE       256


/* YYLLOC_DEFAULT -- Set CURRENT to span from RHS[1] to RHS[N].
   If N is 0, then set CURRENT to the empty location which ends
   the previous symbol: RHS[0] (always defined).  */

#ifndef YYLLOC_DEFAULT
# define YYLLOC_DEFAULT(Current, Rhs, N)                        \
   do                                                           \
     if (N)                                                     \
       {                                                        \
         (Current).first_line   = YYRHSLOC (Rhs, 1).first_line;       \
         (Current).first_column = YYRHSLOC (Rhs, 1).first_column;     \
         (Current).last_line    = YYRHSLOC (Rhs, N).last_line;        \
         (Current).last_column  = YYRHSLOC (Rhs, N).last_column;      \
       }                                                        \
     else                                                       \
       {                                                        \
         (Current).first_line   = (Current).last_line   =             \
           YYRHSLOC (Rhs, 0).last_line;                         \
         (Current).first_column = (Current).last_column =             \
           YYRHSLOC (Rhs, 0).last_column;                           \
       }                                                        \
   while (0)
#endif

#define YYRHSLOC(Rhs, K) ((Rhs)[K])


/* Enable debugging if requested.  */
```

```
#if YYDEBUG

# ifndef YYFPRINTF
#  include <stdio.h> /* INFRINGES ON USER NAME SPACE */
#  define YYFPRINTF fprintf
# endif

# define YYDPRINTF(Args)                        \
do {                                            \
 if (yydebug)                                   \
   YYFPRINTF Args;                              \
} while (0)



/* YY_LOCATION_PRINT -- Print the location on the stream.
  This macro was not mandated originally: define only if we know
  we won't break user code: when these are the locations we know.  */

#ifndef YY_LOCATION_PRINT
# if defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL

/* Print *YYLOCP on YYO.  Private, do not rely on its existence. */

YY_ATTRIBUTE_UNUSED
static unsigned
yy_location_print_ (FILE *yyo, YYLTYPE const * const yylocp)
{
 unsigned res = 0;
 int end_col = 0 != yylocp->last_column ? yylocp->last_column - 1 : 0;
 if (0 <= yylocp->first_line)
   {
     res += YYFPRINTF (yyo, "%d", yylocp->first_line);
     if (0 <= yylocp->first_column)
       res += YYFPRINTF (yyo, ".%d", yylocp->first_column);
   }
 if (0 <= yylocp->last_line)
   {
     if (yylocp->first_line < yylocp->last_line)
       {
         res += YYFPRINTF (yyo, "-%d", yylocp->last_line);
         if (0 <= end_col)
           res += YYFPRINTF (yyo, ".%d", end_col);
       }
     else if (0 <= end_col && yylocp->first_column < end_col)
       res += YYFPRINTF (yyo, "-%d", end_col);
   }
 return res;
}
```

```
#  define YY_LOCATION_PRINT(File, Loc)          \
 yy_location_print_ (File, &(Loc))

# else
#  define YY_LOCATION_PRINT(File, Loc) ((void) 0)
# endif
#endif


# define YY_SYMBOL_PRINT(Title, Type, Value, Location)                    \
do {                                                                      \
 if (yydebug)                                                             \
   {                                                                      \
     YYFPRINTF (stderr, "%s ", Title);                                    \
     yy_symbol_print (stderr,                                             \
                Type, Value, Location, lexer, result, arg); \
     YYFPRINTF (stderr, "\n");                                            \
   }                                                                      \
} while (0)


/*-----------------------------------------.
| Print this symbol's value on YYOUTPUT.  |
'-----------------------------------------*/

static void
yy_symbol_value_print (FILE *yyoutput, int yytype, YYSTYPE const * const yyvaluep, YYLTYPE const * const
yylocationp, CfgLexer *lexer, LogExprNode **result, gpointer arg)
{
 FILE *yyo = yyoutput;
 YYUSE (yyo);
 YYUSE (yylocationp);
 YYUSE (lexer);
 YYUSE (result);
 YYUSE (arg);
 if (!yyvaluep)
   return;
# ifdef YYPRINT
 if (yytype < YYNTOKENS)
   YYPRINT (yyoutput, yytoknum[yytype], *yyvaluep);
# endif
 YYUSE (yytype);
}


/*---------------------------------.
| Print this symbol on YYOUTPUT.  |
```

```
'--------------------------------*/

static void
yy_symbol_print (FILE *yyoutput, int yytype, YYSTYPE const * const yyvaluep, YYLTYPE const * const
yylocationp, CfgLexer *lexer, LogExprNode **result, gpointer arg)
{
 YYFPRINTF (yyoutput, "%s %s (",
         yytype < YYNTOKENS ? "token" : "nterm", yytname[yytype]);

 YY_LOCATION_PRINT (yyoutput, *yylocationp);
 YYFPRINTF (yyoutput, ": ");
 yy_symbol_value_print (yyoutput, yytype, yyvaluep, yylocationp, lexer, result, arg);
 YYFPRINTF (yyoutput, ")");
}

/*------------------------------------------------------------------.
| yy_stack_print -- Print the state stack from its BOTTOM up to its |
| TOP (included).                                                   |
'------------------------------------------------------------------*/

static void
yy_stack_print (yytype_int16 *yybottom, yytype_int16 *yytop)
{
 YYFPRINTF (stderr, "Stack now");
 for (; yybottom <= yytop; yybottom++)
   {
     int yybot = *yybottom;
     YYFPRINTF (stderr, " %d", yybot);
   }
 YYFPRINTF (stderr, "\n");
}

# define YY_STACK_PRINT(Bottom, Top)                            \
do {                                                            \
 if (yydebug)                                                   \
   yy_stack_print ((Bottom), (Top));                            \
} while (0)


/*------------------------------------------------.
| Report that the YYRULE is going to be reduced.  |
'------------------------------------------------*/

static void
yy_reduce_print (yytype_int16 *yyssp, YYSTYPE *yyvsp, YYLTYPE *yylsp, int yyrule, CfgLexer *lexer,
LogExprNode **result, gpointer arg)
{
 unsigned long int yylno = yyrline[yyrule];
```

```
 int yynrhs = yyr2[yyrule];
 int yyi;
 YYFPRINTF (stderr, "Reducing stack by rule %d (line %lu):\n",
           yyrule - 1, yylno);
 /* The symbols being reduced.  */
 for (yyi = 0; yyi < yynrhs; yyi++)
   {
     YYFPRINTF (stderr, "   $%d = ", yyi + 1);
     yy_symbol_print (stderr,
                      yystos[yyssp[yyi + 1 - yynrhs]],
                      &(yyvsp[(yyi + 1) - (yynrhs)])
                      , &(yylsp[(yyi + 1) - (yynrhs)])                       , lexer, result, arg);
     YYFPRINTF (stderr, "\n");
   }
}

# define YY_REDUCE_PRINT(Rule)          \
do {                                    \
 if (yydebug)                           \
   yy_reduce_print (yyssp, yyvsp, yylsp, Rule, lexer, result, arg); \
} while (0)

/* Nonzero means print parse trace.  It is left uninitialized so that
   multiple parsers can coexist.  */
int yydebug;
#else /* !YYDEBUG */
# define YYDPRINTF(Args)
# define YY_SYMBOL_PRINT(Title, Type, Value, Location)
# define YY_STACK_PRINT(Bottom, Top)
# define YY_REDUCE_PRINT(Rule)
#endif /* !YYDEBUG */


/* YYINITDEPTH -- initial size of the parser's stacks.  */
#ifndef YYINITDEPTH
# define YYINITDEPTH 200
#endif

/* YYMAXDEPTH -- maximum size the stacks can grow to (effective only
   if the built-in stack extension method is used).

   Do not make this value too large; the results are undefined if
   YYSTACK_ALLOC_MAXIMUM < YYSTACK_BYTES (YYMAXDEPTH)
   evaluated with infinite-precision integer arithmetic.  */

#ifndef YYMAXDEPTH
# define YYMAXDEPTH 10000
#endif
```

```
#if YYERROR_VERBOSE

# ifndef yystrlen
#  if defined __GLIBC__ && defined _STRING_H
#   define yystrlen strlen
#  else
/* Return the length of YYSTR.  */
static YYSIZE_T
yystrlen (const char *yystr)
{
 YYSIZE_T yylen;
 for (yylen = 0; yystr[yylen]; yylen++)
   continue;
 return yylen;
}
#  endif
# endif

# ifndef yystpcpy
#  if defined __GLIBC__ && defined _STRING_H && defined _GNU_SOURCE
#   define yystpcpy stpcpy
#  else
/* Copy YYSRC to YYDEST, returning the address of the terminating '\0' in
  YYDEST.  */
static char *
yystpcpy (char *yydest, const char *yysrc)
{
 char *yyd = yydest;
 const char *yys = yysrc;

 while ((*yyd++ = *yys++) != '\0')
   continue;

 return yyd - 1;
}
#  endif
# endif

# ifndef yytnamerr
/* Copy to YYRES the contents of YYSTR after stripping away unnecessary
  quotes and backslashes, so that it's suitable for yyerror.  The
  heuristic is that double-quoting is unnecessary unless the string
  contains an apostrophe, a comma, or backslash (other than
  backslash-backslash).  YYSTR is taken from yytname.  If YYRES is
  null, do not copy; instead, return the length of what the result
  would have been.  */
```

```
static YYSIZE_T
yytnamerr (char *yyres, const char *yystr)
{
 if (*yystr == "")
   {
    YYSIZE_T yyn = 0;
    char const *yyp = yystr;

    for (;;)
      switch (*++yyp)
        {
        case '\'':
        case ',':
          goto do_not_strip_quotes;

        case '\\':
          if (*++yyp != '\\')
            goto do_not_strip_quotes;
          /* Fall through.  */
        default:
          if (yyres)
            yyres[yyn] = *yyp;
          yyn++;
          break;

        case '"':
          if (yyres)
            yyres[yyn] = '\0';
          return yyn;
        }
  do_not_strip_quotes: ;
   }

 if (! yyres)
   return yystrlen (yystr);

 return yystpcpy (yyres, yystr) - yyres;
}
# endif

/* Copy into *YYMSG, which is of size *YYMSG_ALLOC, an error message
   about the unexpected token YYTOKEN for the state stack whose top is
   YYSSP.

   Return 0 if *YYMSG was successfully written.  Return 1 if *YYMSG is
   not large enough to hold the message.  In that case, also set
   *YYMSG_ALLOC to the required number of bytes.  Return 2 if the
   required number of bytes is too large to store.  */
```

```
static int
yysyntax_error (YYSIZE_T *yymsg_alloc, char **yymsg,
                yytype_int16 *yyssp, int yytoken)
{
 YYSIZE_T yysize0 = yytnamerr (YY_NULLPTR, yytname[yytoken]);
 YYSIZE_T yysize = yysize0;
 enum { YYERROR_VERBOSE_ARGS_MAXIMUM = 5 };
 /* Internationalized format string. */
 const char *yyformat = YY_NULLPTR;
 /* Arguments of yyformat. */
 char const *yyarg[YYERROR_VERBOSE_ARGS_MAXIMUM];
 /* Number of reported tokens (one for the "unexpected", one per
    "expected"). */
 int yycount = 0;

 /* There are many possibilities here to consider:
    - If this state is a consistent state with a default action, then
      the only way this function was invoked is if the default action
      is an error action.  In that case, don't check for expected
      tokens because there are none.
    - The only way there can be no lookahead present (in yychar) is if
      this state is a consistent state with a default action.  Thus,
      detecting the absence of a lookahead is sufficient to determine
      that there is no unexpected or expected token to report.  In that
      case, just report a simple "syntax error".
    - Don't assume there isn't a lookahead just because this state is a
      consistent state with a default action.  There might have been a
      previous inconsistent state, consistent state with a non-default
      action, or user semantic action that manipulated yychar.
    - Of course, the expected token list depends on states to have
      correct lookahead information, and it depends on the parser not
      to perform extra reductions after fetching a lookahead from the
      scanner and before detecting a syntax error.  Thus, state merging
      (from LALR or IELR) and default reductions corrupt the expected
      token list.  However, the list is correct for canonical LR with
      one exception: it will still contain any token that will not be
      accepted due to an error action in a later state.
 */
 if (yytoken != YYEMPTY)
   {
     int yyn = yypact[*yyssp];
     yyarg[yycount++] = yytname[yytoken];
     if (!yypact_value_is_default (yyn))
       {
         /* Start YYX at -YYN if negative to avoid negative indexes in
            YYCHECK.  In other words, skip the first -YYN actions for
            this state because they are default actions.  */
         int yyxbegin = yyn < 0 ? -yyn : 0;
```

```
        /* Stay within bounds of both yycheck and yytname.  */
        int yychecklim = YYLAST - yyn + 1;
        int yyxend = yychecklim < YYNTOKENS ? yychecklim : YYNTOKENS;
        int yyx;

        for (yyx = yyxbegin; yyx < yyxend; ++yyx)
          if (yycheck[yyx + yyn] == yyx && yyx != YYTERROR
              && !yytable_value_is_error (yytable[yyx + yyn]))
            {
              if (yycount == YYERROR_VERBOSE_ARGS_MAXIMUM)
                {
                  yycount = 1;
                  yysize = yysize0;
                  break;
                }
              yyarg[yycount++] = yytname[yyx];
              {
                YYSIZE_T yysize1 = yysize + yytnamerr (YY_NULLPTR, yytname[yyx]);
                if (! (yysize <= yysize1
                       && yysize1 <= YYSTACK_ALLOC_MAXIMUM))
                  return 2;
                yysize = yysize1;
              }
            }
      }
    }

  switch (yycount)
    {
# define YYCASE_(N, S)                      \
      case N:                               \
        yyformat = S;                       \
      break
      YYCASE_(0, YY_("syntax error"));
      YYCASE_(1, YY_("syntax error, unexpected %s"));
      YYCASE_(2, YY_("syntax error, unexpected %s, expecting %s"));
      YYCASE_(3, YY_("syntax error, unexpected %s, expecting %s or %s"));
      YYCASE_(4, YY_("syntax error, unexpected %s, expecting %s or %s or %s"));
      YYCASE_(5, YY_("syntax error, unexpected %s, expecting %s or %s or %s or %s"));
# undef YYCASE_
    }

  {
    YYSIZE_T yysize1 = yysize + yystrlen (yyformat);
    if (! (yysize <= yysize1 && yysize1 <= YYSTACK_ALLOC_MAXIMUM))
      return 2;
    yysize = yysize1;
  }
```

```
 if (*yymsg_alloc < yysize)
   {
    *yymsg_alloc = 2 * yysize;
    if (! (yysize <= *yymsg_alloc
           && *yymsg_alloc <= YYSTACK_ALLOC_MAXIMUM))
      *yymsg_alloc = YYSTACK_ALLOC_MAXIMUM;
    return 1;
   }

 /* Avoid sprintf, as that infringes on the user's name space.
    Don't have undefined behavior even if the translation
    produced a string with the wrong number of "%s"s.  */
 {
  char *yyp = *yymsg;
  int yyi = 0;
  while ((*yyp = *yyformat) != '\0')
    if (*yyp == '%' && yyformat[1] == 's' && yyi < yycount)
      {
        yyp += yytnamerr (yyp, yyarg[yyi++]);
        yyformat += 2;
      }
    else
      {
        yyp++;
        yyformat++;
      }
 }
 return 0;
}
#endif /* YYERROR_VERBOSE */

/*-----------------------------------------------.
| Release the memory associated to this symbol.  |
'-----------------------------------------------*/

static void
yydestruct (const char *yymsg, int yytype, YYSTYPE *yyvaluep, YYLTYPE *yylocationp, CfgLexer *lexer,
LogExprNode **result, gpointer arg)
{
 YYUSE (yyvaluep);
 YYUSE (yylocationp);
 YYUSE (lexer);
 YYUSE (result);
 YYUSE (arg);
 if (!yymsg)
   yymsg = "Deleting";
 YY_SYMBOL_PRINT (yymsg, yytype, yyvaluep, yylocationp);
```

```
 YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
 YYUSE (yytype);
 YY_IGNORE_MAYBE_UNINITIALIZED_END
}




/*----------.
| yyparse.  |
'----------*/

int
yyparse (CfgLexer *lexer, LogExprNode **result, gpointer arg)
{
/* The lookahead symbol.  */
int yychar;


/* The semantic value of the lookahead symbol.  */
/* Default value used for initialization, for pacifying older GCCs
  or non-GCC compilers.  */
YY_INITIAL_VALUE (static YYSTYPE yyval_default;)
YYSTYPE yylval YY_INITIAL_VALUE (= yyval_default);

/* Location data for the lookahead symbol.  */
static YYLTYPE yyloc_default
# if defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL
 = { 1, 1, 1, 1 }
# endif
;
YYLTYPE yylloc = yyloc_default;

  /* Number of syntax errors so far.  */
  int yynerrs;

  int yystate;
  /* Number of tokens to shift before error messages enabled.  */
  int yyerrstatus;

  /* The stacks and their tools:
     'yyss': related to states.
     'yyvs': related to semantic values.
     'yyls': related to locations.

     Refer to the stacks through separate pointers, to allow yyoverflow
     to reallocate them elsewhere.  */
```

```
  /* The state stack.  */
  yytype_int16 yyssa[YYINITDEPTH];
  yytype_int16 *yyss;
  yytype_int16 *yyssp;

  /* The semantic value stack.  */
  YYSTYPE yyvsa[YYINITDEPTH];
  YYSTYPE *yyvs;
  YYSTYPE *yyvsp;

  /* The location stack.  */
  YYLTYPE yylsa[YYINITDEPTH];
  YYLTYPE *yyls;
  YYLTYPE *yylsp;

  /* The locations where the error started and ended.  */
  YYLTYPE yyerror_range[3];

  YYSIZE_T yystacksize;

 int yyn;
 int yyresult;
 /* Lookahead token as an internal (translated) token number.  */
 int yytoken = 0;
 /* The variables used to return semantic value and location from the
    action routines.  */
 YYSTYPE yyval;
 YYLTYPE yyloc;

#if YYERROR_VERBOSE
 /* Buffer for error messages, and its allocated size.  */
 char yymsgbuf[128];
 char *yymsg = yymsgbuf;
 YYSIZE_T yymsg_alloc = sizeof yymsgbuf;
#endif

#define YYPOPSTACK(N)   (yyvsp -= (N), yyssp -= (N), yylsp -= (N))

 /* The number of symbols on the RHS of the reduced rule.
    Keep to zero when no symbol should be popped.  */
 int yylen = 0;

 yyssp = yyss = yyssa;
 yyvsp = yyvs = yyvsa;
 yylsp = yyls = yylsa;
 yystacksize = YYINITDEPTH;
```

```
 YYDPRINTF ((stderr, "Starting parse\n"));

 yystate = 0;
 yyerrstatus = 0;
 yynerrs = 0;
 yychar = YYEMPTY; /* Cause a token to be read.  */
 yylsp[0] = yylloc;
 goto yysetstate;

/*------------------------------------------------------------.
| yynewstate -- Push a new state, which is found in yystate.  |
'------------------------------------------------------------*/
yynewstate:
 /* In all cases, when you get here, the value and location stacks
    have just been pushed.  So pushing a state here evens the stacks.  */
 yyssp++;

yysetstate:
 *yyssp = yystate;

 if (yyss + yystacksize - 1 <= yyssp)
   {
     /* Get the current used size of the three stacks, in elements.  */
     YYSIZE_T yysize = yyssp - yyss + 1;

#ifdef yyoverflow
     {
       /* Give user a chance to reallocate the stack.  Use copies of
          these so that the &'s don't force the real ones into
          memory.  */
       YYSTYPE *yyvs1 = yyvs;
       yytype_int16 *yyss1 = yyss;
       YYLTYPE *yyls1 = yyls;

       /* Each stack pointer address is followed by the size of the
          data in use in that stack, in bytes.  This used to be a
          conditional around just the two extra args, but that might
          be undefined if yyoverflow is a macro.  */
       yyoverflow (YY_("memory exhausted"),
                   &yyss1, yysize * sizeof (*yyssp),
                   &yyvs1, yysize * sizeof (*yyvsp),
                   &yyls1, yysize * sizeof (*yylsp),
                   &yystacksize);

       yyls = yyls1;
       yyss = yyss1;
       yyvs = yyvs1;
     }
```

```
#else /* no yyoverflow */
# ifndef YYSTACK_RELOCATE
    goto yyexhaustedlab;
# else
    /* Extend the stack our own way.  */
    if (YYMAXDEPTH <= yystacksize)
      goto yyexhaustedlab;
    yystacksize *= 2;
    if (YYMAXDEPTH < yystacksize)
      yystacksize = YYMAXDEPTH;

    {
      yytype_int16 *yyss1 = yyss;
      union yyalloc *yyptr =
        (union yyalloc *) YYSTACK_ALLOC (YYSTACK_BYTES (yystacksize));
      if (! yyptr)
        goto yyexhaustedlab;
      YYSTACK_RELOCATE (yyss_alloc, yyss);
      YYSTACK_RELOCATE (yyvs_alloc, yyvs);
      YYSTACK_RELOCATE (yyls_alloc, yyls);
#  undef YYSTACK_RELOCATE
      if (yyss1 != yyssa)
        YYSTACK_FREE (yyss1);
    }
# endif
#endif /* no yyoverflow */

    yyssp = yyss + yysize - 1;
    yyvsp = yyvs + yysize - 1;
    yylsp = yyls + yysize - 1;

    YYDPRINTF ((stderr, "Stack size increased to %lu\n",
            (unsigned long int) yystacksize));

    if (yyss + yystacksize - 1 <= yyssp)
      YYABORT;
  }

 YYDPRINTF ((stderr, "Entering state %d\n", yystate));

 if (yystate == YYFINAL)
   YYACCEPT;

 goto yybackup;

/*-----------.
| yybackup.  |
'-----------*/
```

```
yybackup:

/* Do appropriate processing given the current state.  Read a
   lookahead token if we need one and don't already have one.  */

/* First try to decide what to do without reference to lookahead token.  */
yyn = yypact[yystate];
if (yypact_value_is_default (yyn))
  goto yydefault;

/* Not known => get a lookahead token if don't already have one.  */

/* YYCHAR is either YYEMPTY or YYEOF or a valid lookahead symbol.  */
if (yychar == YYEMPTY)
  {
    YYDPRINTF ((stderr, "Reading a token: "));
    yychar = yylex (&yylval, &yylloc, lexer);
  }

if (yychar <= YYEOF)
  {
    yychar = yytoken = YYEOF;
    YYDPRINTF ((stderr, "Now at end of input.\n"));
  }
else
  {
    yytoken = YYTRANSLATE (yychar);
    YY_SYMBOL_PRINT ("Next token is", yytoken, &yylval, &yylloc);
  }

/* If the proper action on seeing token YYTOKEN is to reduce or to
   detect an error, take that action.  */
yyn += yytoken;
if (yyn < 0 || YYLAST < yyn || yycheck[yyn] != yytoken)
  goto yydefault;
yyn = yytable[yyn];
if (yyn <= 0)
  {
    if (yytable_value_is_error (yyn))
      goto yyerrlab;
    yyn = -yyn;
    goto yyreduce;
  }

/* Count tokens shifted since error; after three, turn off error
   status.  */
if (yyerrstatus)
  yyerrstatus--;
```

```
 /* Shift the lookahead token.  */
 YY_SYMBOL_PRINT ("Shifting", yytoken, &yylval, &yylloc);

 /* Discard the shifted token.  */
 yychar = YYEMPTY;

 yystate = yyn;
 YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
 *++yyvsp = yylval;
 YY_IGNORE_MAYBE_UNINITIALIZED_END
 *++yylsp = yylloc;
 goto yynewstate;


/*-----------------------------------------------------------.
| yydefault -- do the default action for the current state.  |
'-----------------------------------------------------------*/
yydefault:
 yyn = yydefact[yystate];
 if (yyn == 0)
   goto yyerrlab;
 goto yyreduce;


/*-----------------------------.
| yyreduce -- Do a reduction.  |
'-----------------------------*/
yyreduce:
 /* yyn is the number of a rule to reduce with.  */
 yylen = yyr2[yyn];

 /* If YYLEN is nonzero, implement the default value of the action:
    '$$ = $1'.

    Otherwise, the following line sets YYVAL to garbage.
    This behavior is undocumented and Bison
    users should not rely upon it.  Assigning to YYVAL
    unconditionally makes the parser a bit smaller, and it avoids a
    GCC warning that YYVAL may be used uninitialized.  */
 yyval = yyvsp[1-yylen];

 /* Default location.  */
 YYLLOC_DEFAULT (yyloc, (yylsp - yylen), yylen);
 YY_REDUCE_PRINT (yyn);
 switch (yyn)
   {
       case 2:
```

```
#line 387 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { *result = log_expr_node_append_tail((yyvsp[-1].ptr), (yyvsp[0].ptr)); if (yychar != YYEMPTY) {
cfg_lexer_unput_token(lexer, &yylval); } YYACCEPT; }
#line 2942 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 3:
#line 391 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])),
(yyvsp[0].ptr)); }
#line 2948 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 4:
#line 392 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr),  (yyvsp[0].ptr)); }
#line 2954 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 5:
#line 393 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = NULL; }
#line 2960 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 6:
#line 398 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
    GError *error = NULL;

    (yyval.ptr) = log_template_new(configuration, (yyvsp[0].cptr));
    CHECK_ERROR_GERROR(log_template_compile((yyval.ptr), (yyvsp[0].cptr), &error), (yylsp[0]), error, "error
compiling replacement");
      free((yyvsp[0].cptr));
  }
#line 2972 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 7:
#line 409 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        last_rewrite = log_rewrite_subst_new((yyvsp[0].ptr), configuration);
        log_template_unref((yyvsp[0].ptr));
       }
#line 2981 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 8:
```

```
#line 414 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        GError *error = NULL;
        CHECK_ERROR_GERROR(log_rewrite_subst_compile_pattern(last_rewrite, (yyvsp[-4].cptr), &error),
(yylsp[-4]), error, "error compiling search pattern");
        free((yyvsp[-4].cptr));
        (yyval.ptr) = last_rewrite;
       }
#line 2992 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 9:
#line 421 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        last_rewrite = log_rewrite_set_new((yyvsp[0].ptr), configuration);
        log_template_unref((yyvsp[0].ptr));
       }
#line 3001 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 10:
#line 425 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = last_rewrite; }
#line 3007 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 11:
#line 426 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = log_rewrite_set_tag_new((yyvsp[-1].cptr), TRUE, configuration); free((yyvsp[-1].cptr)); }
#line 3013 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 12:
#line 427 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = log_rewrite_set_tag_new((yyvsp[-1].cptr), FALSE, configuration); free((yyvsp[-1].cptr)); }
#line 3019 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 13:
#line 429 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        last_rewrite = log_rewrite_groupset_new((yyvsp[0].ptr), configuration);
        log_template_unref((yyvsp[0].ptr));
        }
#line 3028 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 14:
```

```
#line 433 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = last_rewrite; }
#line 3034 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 15:
#line 436 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        Plugin *p;
        gint context = LL_CONTEXT_REWRITE;

        p = plugin_find(configuration, context, (yyvsp[0].cptr));
        CHECK_ERROR(p, (yylsp[0]), "%s plugin %s not found",
cfg_lexer_lookup_context_name_by_type(context), (yyvsp[0].cptr));

        last_rewrite = (LogRewrite *) plugin_parse_config(p, configuration, &(yylsp[0]), NULL);
        free((yyvsp[0].cptr));
        if (!last_rewrite)
          {
            YYERROR;
          }
        (yyval.ptr) = last_rewrite;
       }
#line 3054 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 18:
#line 460 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        log_rewrite_groupset_add_fields(last_rewrite, (yyvsp[-1].ptr));
       }
#line 3062 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 22:
#line 472 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_matcher_options = log_rewrite_subst_get_matcher_options(last_rewrite); }
#line 3068 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 27:
#line 483 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        const gchar *p = (yyvsp[-1].cptr);
        if (p[0] == '$')
          {
            msg_warning("Value references in rewrite rules should not use the '$' prefix, those are only needed in
templates",
```

```
                    evt_tag_str("value", (yyvsp[-1].cptr)),
                    NULL);
              p++;
             }
          last_rewrite->value_handle = log_msg_get_value_handle(p);
          CHECK_ERROR(!log_msg_is_handle_macro(last_rewrite->value_handle), (yylsp[-1]), "%s is read-only, it cannot be changed in rewrite rules", p);
        CHECK_ERROR(log_msg_is_value_name_valid(p), (yylsp[-1]), "%s is not a valid name for a name-value pair, perhaps a misspelled .SDATA reference?", p);
          free((yyvsp[-1].cptr));
        }
#line 3087 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 29:
#line 502 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    {
          FilterExprNode *filter_expr;

          CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&filter_expr_parser, lexer, (gpointer *) &filter_expr, NULL), (yylsp[-1]));
          log_rewrite_set_condition(last_rewrite, filter_expr);
        }
#line 3098 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 31:
#line 514 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { cfg_lexer_push_context(lexer, LL_CONTEXT_SOURCE, NULL, "source"); }
#line 3104 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 32:
#line 516 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { cfg_lexer_pop_context(lexer); }
#line 3110 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 33:
#line 517 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    {
          (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc));
        }
#line 3118 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

  case 34:
#line 523 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
```

```
  { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])),
(yyvsp[0].ptr)); }
#line 3124 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 35:
#line 524 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr),  (yyvsp[0].ptr)); }
#line 3130 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 36:
#line 525 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = NULL; }
#line 3136 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 37:
#line 529 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = (yyvsp[0].ptr); }
#line 3142 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 38:
#line 530 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = (yyvsp[0].ptr); }
#line 3148 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 39:
#line 535 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        Plugin *p;
        gint context = LL_CONTEXT_SOURCE;

        p = plugin_find(configuration, context, (yyvsp[0].cptr));
        CHECK_ERROR(p, (yylsp[0]), "%s plugin %s not found",
cfg_lexer_lookup_context_name_by_type(context), (yyvsp[0].cptr));

        last_driver = (LogDriver *) plugin_parse_config(p, configuration, &(yylsp[0]), NULL);
        free((yyvsp[0].cptr));
        if (!last_driver)
          {
            YYERROR;
          }
        (yyval.ptr) = last_driver;
       }
#line 3168 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
```

```
  break;

 case 40:
#line 553 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = (yyvsp[-1].ptr); }
#line 3174 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 41:
#line 557 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        last_driver = afinter_sd_new(configuration);
        last_source_options = &((AFInterSourceDriver *) last_driver)->source_options;
       }
#line 3183 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 42:
#line 561 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = last_driver; }
#line 3189 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 46:
#line 575 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        FilterExprNode *last_filter_expr = NULL;

    CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&filter_expr_parser, lexer, (gpointer *)
&last_filter_expr, NULL), (yyloc));

        (yyval.ptr) = log_expr_node_new_pipe(log_filter_pipe_new(last_filter_expr, configuration), &(yyloc));
  }
#line 3201 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 47:
#line 586 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        LogExprNode *last_parser_expr = NULL;

        CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&parser_expr_parser, lexer, (gpointer *)
&last_parser_expr, NULL), (yyloc));
        (yyval.ptr) = last_parser_expr;
       }
#line 3212 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;
```

```
 case 48:
#line 596 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        LogExprNode *last_rewrite_expr = NULL;

        CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&rewrite_expr_parser, lexer, (gpointer *)
&last_rewrite_expr, NULL), (yyloc));
        (yyval.ptr) = last_rewrite_expr;
       }
#line 3223 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 49:
#line 605 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { cfg_lexer_push_context(lexer, LL_CONTEXT_DESTINATION, NULL, "destination"); }
#line 3229 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 50:
#line 607 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { cfg_lexer_pop_context(lexer); }
#line 3235 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 51:
#line 608 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
         (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc));
        }
#line 3243 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 52:
#line 616 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])),
(yyvsp[0].ptr)); }
#line 3249 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 53:
#line 617 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr),  (yyvsp[0].ptr)); }
#line 3255 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 54:
#line 618 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = NULL; }
```

```
#line 3261 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 55:
#line 622 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = (yyvsp[0].ptr); }
#line 3267 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 56:
#line 627 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        Plugin *p;
        gint context = LL_CONTEXT_DESTINATION;

        p = plugin_find(configuration, context, (yyvsp[0].cptr));
        CHECK_ERROR(p, (yylsp[0]), "%s plugin %s not found",
cfg_lexer_lookup_context_name_by_type(context), (yyvsp[0].cptr));

        last_driver = (LogDriver *) plugin_parse_config(p, configuration, &(yylsp[0]), NULL);
        free((yyvsp[0].cptr));
        if (!last_driver)
          {
            YYERROR;
          }
        (yyval.ptr) = last_driver;
       }
#line 3287 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 57:
#line 645 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); (yyval.ptr) = (yyvsp[-2].ptr); }
#line 3293 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 58:
#line 646 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = NULL; }
#line 3299 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 59:
#line 650 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = log_expr_node_new_source_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3305 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;
```

```
 case 60:
#line 651 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_source(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3311 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 61:
#line 652 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_filter_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3317 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 62:
#line 653 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_filter(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3323 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 63:
#line 654 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_parser_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3329 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 64:
#line 655 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_parser(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3335 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 65:
#line 656 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_rewrite_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3341 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 66:
#line 657 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_rewrite(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3347 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 67:
#line 658 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_destination_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3353 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;
```

```
 case 68:
#line 659 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_destination(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3359 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 69:
#line 660 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = (yyvsp[0].ptr); }
#line 3365 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 70:
#line 664 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc)); }
#line 3371 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 71:
#line 676 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = (yyvsp[0].ptr) ? log_expr_node_new_junction((yyvsp[0].ptr), &(yylsp[0])) :  NULL; }
#line 3377 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 72:
#line 681 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); (yyval.ptr) = (yyvsp[-2].ptr); }
#line 3383 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 73:
#line 682 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = NULL; }
#line 3389 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 74:
#line 686 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = (yyvsp[-1].ptr); }
#line 3395 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 75:
#line 687 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = (yyvsp[-1].ptr); }
#line 3401 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;
```

```
 case 76:
#line 691 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.ptr) = log_expr_node_new_log(log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[-1].ptr)),
(yyvsp[0].num), &(yyloc)); }
#line 3407 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 77:
#line 695 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = (yyvsp[-2].num); }
#line 3413 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 78:
#line 696 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = 0; }
#line 3419 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 79:
#line 700 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = log_expr_node_lookup_flag((yyvsp[-1].cptr)) | (yyvsp[0].num); free((yyvsp[-1].cptr)); }
#line 3425 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 80:
#line 701 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = 0; }
#line 3431 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 83:
#line 737 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = 1; }
#line 3437 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 84:
#line 738 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = 0; }
#line 3443 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 85:
#line 739 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { (yyval.num) = (yyvsp[0].num); }
#line 3449 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;
```

```
 case 86:
#line 743 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.num) = (yyvsp[0].num); }
#line 3455 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 87:
#line 744 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.num) = 2; }
#line 3461 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 88:
#line 754 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = g_list_reverse((yyvsp[0].ptr)); }
#line 3467 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 89:
#line 758 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = g_list_append((yyvsp[0].ptr), g_strdup((yyvsp[-1].cptr))); free((yyvsp[-1].cptr)); }
#line 3473 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 90:
#line 759 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { (yyval.ptr) = NULL; }
#line 3479 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 93:
#line 810 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { last_source_options->init_window_size = (yyvsp[-1].num); }
#line 3485 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 94:
#line 811 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { last_source_options->chain_hostnames = (yyvsp[-1].num); }
#line 3491 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

 case 95:
#line 812 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
    { last_source_options->keep_hostname = (yyvsp[-1].num); }
#line 3497 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;
```

```
 case 96:
#line 813 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_source_options->program_override = g_strdup((yyvsp[-1].cptr)); free((yyvsp[-1].cptr)); }
#line 3503 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 97:
#line 814 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_source_options->host_override = g_strdup((yyvsp[-1].cptr)); free((yyvsp[-1].cptr)); }
#line 3509 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 98:
#line 815 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { gchar *p = strrchr((yyvsp[-1].cptr), ':'); if (p) *p = 0; last_source_options->program_override =
g_strdup((yyvsp[-1].cptr)); free((yyvsp[-1].cptr)); }
#line 3515 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 99:
#line 816 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_source_options->keep_timestamp = (yyvsp[-1].num); }
#line 3521 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 100:
#line 817 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { log_source_options_set_tags(last_source_options, (yyvsp[-1].ptr)); }
#line 3527 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 101:
#line 818 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_host_resolve_options = &last_source_options->host_resolve_options; }
#line 3533 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 103:
#line 831 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_host_resolve_options->use_fqdn = (yyvsp[-1].num); }
#line 3539 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

 case 104:
#line 832 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { last_host_resolve_options->use_dns = (yyvsp[-1].num); }
#line 3545 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
```

```
  break;

 case 105:
#line 833 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { last_host_resolve_options->use_dns_cache = (yyvsp[-1].num); }
#line 3551 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 106:
#line 834 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { last_host_resolve_options->normalize_hostnames = (yyvsp[-1].num); }
#line 3557 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 107:
#line 978 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { CHECK_ERROR(log_matcher_options_set_type(last_matcher_options, (yyvsp[-1].cptr)), (yylsp[-1]),
"unknown matcher type"); free((yyvsp[-1].cptr)); }
#line 3563 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

 case 109:
#line 983 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { CHECK_ERROR(log_matcher_options_process_flag(last_matcher_options, (yyvsp[-1].cptr)), (yylsp[-1]),
"unknown matcher flag"); free((yyvsp[-1].cptr)); }
#line 3569 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;


#line 3573 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
     default: break;
   }
 /* User semantic actions sometimes alter yychar, and that requires
    that yytoken be updated with the new translation.  We take the
    approach of translating immediately before every use of yytoken.
    One alternative is translating here after every semantic action,
    but that translation would be missed if the semantic action invokes
    YYABORT, YYACCEPT, or YYERROR immediately after altering yychar or
    if it invokes YYBACKUP.  In the case of YYABORT or YYACCEPT, an
    incorrect destructor might then be invoked immediately.  In the
    case of YYERROR or YYBACKUP, subsequent parser actions might lead
    to an incorrect destructor call or verbose syntax error message
    before the lookahead is translated.  */
 YY_SYMBOL_PRINT ("-> $$ =", yyr1[yyn], &yyval, &yyloc);

 YYPOPSTACK (yylen);
 yylen = 0;
 YY_STACK_PRINT (yyss, yyssp);
```

```
  *++yyvsp = yyval;
  *++yylsp = yyloc;

  /* Now 'shift' the result of the reduction.  Determine what state
     that goes to, based on the state we popped back to and the rule
     number reduced by.  */

  yyn = yyr1[yyn];

  yystate = yypgoto[yyn - YYNTOKENS] + *yyssp;
  if (0 <= yystate && yystate <= YYLAST && yycheck[yystate] == *yyssp)
    yystate = yytable[yystate];
  else
    yystate = yydefgoto[yyn - YYNTOKENS];

  goto yynewstate;


/*--------------------------------------.
| yyerrlab -- here on detecting error.  |
'--------------------------------------*/
yyerrlab:
  /* Make sure we have latest lookahead translation.  See comments at
     user semantic actions for why this is necessary.  */
  yytoken = yychar == YYEMPTY ? YYEMPTY : YYTRANSLATE (yychar);

  /* If not already recovering from an error, report this error.  */
  if (!yyerrstatus)
    {
      ++yynerrs;
#if ! YYERROR_VERBOSE
      yyerror (&yylloc, lexer, result, arg, YY_("syntax error"));
#else
# define YYSYNTAX_ERROR yysyntax_error (&yymsg_alloc, &yymsg, \
                                        yyssp, yytoken)
      {
        char const *yymsgp = YY_("syntax error");
        int yysyntax_error_status;
        yysyntax_error_status = YYSYNTAX_ERROR;
        if (yysyntax_error_status == 0)
          yymsgp = yymsg;
        else if (yysyntax_error_status == 1)
          {
            if (yymsg != yymsgbuf)
              YYSTACK_FREE (yymsg);
            yymsg = (char *) YYSTACK_ALLOC (yymsg_alloc);
            if (!yymsg)
```

```
            {
              yymsg = yymsgbuf;
              yymsg_alloc = sizeof yymsgbuf;
              yysyntax_error_status = 2;
            }
          else
            {
              yysyntax_error_status = YYSYNTAX_ERROR;
              yymsgp = yymsg;
            }
        }
      yyerror (&yylloc, lexer, result, arg, yymsgp);
      if (yysyntax_error_status == 2)
        goto yyexhaustedlab;
    }
# undef YYSYNTAX_ERROR
#endif
  }

 yyerror_range[1] = yylloc;

 if (yyerrstatus == 3)
   {
     /* If just tried and failed to reuse lookahead token after an
        error, discard it.  */

     if (yychar <= YYEOF)
       {
         /* Return failure if at end of input.  */
         if (yychar == YYEOF)
           YYABORT;
       }
     else
       {
         yydestruct ("Error: discarding",
                     yytoken, &yylval, &yylloc, lexer, result, arg);
         yychar = YYEMPTY;
       }
   }

 /* Else will try to reuse lookahead token after shifting the error
    token.  */
 goto yyerrlab1;


/*---------------------------------------------------.
| yyerrorlab -- error raised explicitly by YYERROR.  |
'---------------------------------------------------*/
```

```
yyerrorlab:

 /* Pacify compilers like GCC when the user code never invokes
    YYERROR and the label yyerrorlab therefore never appears in user
    code.  */
 if (/*CONSTCOND*/ 0)
    goto yyerrorlab;

 yyerror_range[1] = yylsp[1-yylen];
 /* Do not reclaim the symbols of the rule whose action triggered
    this YYERROR.  */
 YYPOPSTACK (yylen);
 yylen = 0;
 YY_STACK_PRINT (yyss, yyssp);
 yystate = *yyssp;
 goto yyerrlab1;


/*-------------------------------------------------------------.
| yyerrlab1 -- common code for both syntax error and YYERROR.  |
'-------------------------------------------------------------*/
yyerrlab1:
 yyerrstatus = 3;      /* Each real token shifted decrements this.  */

 for (;;)
   {
     yyn = yypact[yystate];
     if (!yypact_value_is_default (yyn))
       {
         yyn += YYTERROR;
         if (0 <= yyn && yyn <= YYLAST && yycheck[yyn] == YYTERROR)
           {
             yyn = yytable[yyn];
             if (0 < yyn)
               break;
           }
       }

     /* Pop the current state because it cannot handle the error token.  */
     if (yyssp == yyss)
       YYABORT;

     yyerror_range[1] = *yylsp;
     yydestruct ("Error: popping",
                 yystos[yystate], yyvsp, yylsp, lexer, result, arg);
     YYPOPSTACK (1);
     yystate = *yyssp;
     YY_STACK_PRINT (yyss, yyssp);
```

```
  }

 YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
 *++yyvsp = yylval;
 YY_IGNORE_MAYBE_UNINITIALIZED_END

 yyerror_range[2] = yylloc;
 /* Using YYLLOC is tempting, but would change the location of
    the lookahead.  YYLOC is available though.  */
 YYLLOC_DEFAULT (yyloc, yyerror_range, 2);
 *++yylsp = yyloc;

 /* Shift the error token.  */
 YY_SYMBOL_PRINT ("Shifting", yystos[yyn], yyvsp, yylsp);

 yystate = yyn;
 goto yynewstate;


/*-------------------------------------.
| yyacceptlab -- YYACCEPT comes here.  |
'-------------------------------------*/
yyacceptlab:
 yyresult = 0;
 goto yyreturn;

/*-----------------------------------.
| yyabortlab -- YYABORT comes here.  |
'-----------------------------------*/
yyabortlab:
 yyresult = 1;
 goto yyreturn;

#if !defined yyoverflow || YYERROR_VERBOSE
/*-------------------------------------------------.
| yyexhaustedlab -- memory exhaustion comes here.  |
'-------------------------------------------------*/
yyexhaustedlab:
 yyerror (&yylloc, lexer, result, arg, YY_("memory exhausted"));
 yyresult = 2;
 /* Fall through.  */
#endif

yyreturn:
 if (yychar != YYEMPTY)
   {
     /* Make sure we have latest lookahead translation.  See comments at
        user semantic actions for why this is necessary.  */
```

```
    yytoken = YYTRANSLATE (yychar);
    yydestruct ("Cleanup: discarding lookahead",
                yytoken, &yylval, &yylloc, lexer, result, arg);
  }
 /* Do not reclaim the symbols of the rule whose action triggered
    this YYABORT or YYACCEPT.  */
 YYPOPSTACK (yylen);
 YY_STACK_PRINT (yyss, yyssp);
 while (yyssp != yyss)
  {
    yydestruct ("Cleanup: popping",
                yystos[*yyssp], yyvsp, yylsp, lexer, result, arg);
    YYPOPSTACK (1);
  }
#ifndef yyoverflow
 if (yyss != yyssa)
   YYSTACK_FREE (yyss);
#endif
#if YYERROR_VERBOSE
 if (yymsg != yymsgbuf)
   YYSTACK_FREE (yymsg);
#endif
 return yyresult;
}
#line 1048 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1906  */
```

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====

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1.36 sysvinit 2.88dsf

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* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
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1.37 termcap 1.3.1

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1.42 zlib 1.2.8

1.42.1 Available under license :

/* 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).
*/

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```
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