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```
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```

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```
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```

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1.5 bash 3.2

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1.7 bootstrap 2.3.2

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1.13 curl 7.40.0 :(7 Jan 2015)

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#
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1.14 devmem2 n/a

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```
/*
```

```
* devmem2.c: Simple program to read/write from/to any location in memory.
```

```
*
```

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* projects.
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Theodore Ts'o
23-June-2007

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1.18 Elvis 1.0.3

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
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```

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Version 3, 29 June 2007

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Version 2.1, February 1999

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

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

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

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

```
eval '(exit $?0)' && eval 'exec perl -wS -0777 -pi "$0" ${1+"$@"}'
& eval 'exec perl -wS -0777 -pi "$0" $argv:q'
if 0;
# Update an FSF copyright year list to include the current year.
```

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

```
# Copyright (C) 2009-2012 Free Software Foundation, Inc.
```

```
#
```

```
# This program is free software: you can redistribute it and/or modify
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# any later version.
```

```

#
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# Written by Jim Meyering and Joel E. Denny

# The arguments to this script should be names of files that contain
# copyright statements to be updated. The copyright holder's name
# defaults to "Free Software Foundation, Inc." but may be changed to
# any other name by using the "UPDATE_COPYRIGHT HOLDER" environment
# variable.
#
# For example, you might wish to use the update-copyright target rule
# in maint.mk from gnu's maintainer-makefile module.
#
# If a copyright statement is recognized in a file and the final
# year is not the current year, then the statement is updated for the
# new year and it is reformatted to:
#
# 1. Fit within 72 columns.
# 2. Convert 2-digit years to 4-digit years by prepending "19".
# 3. Expand copyright year intervals. (See "Environment variables"
#    below.)
#
# A warning is printed for every file for which no copyright
# statement is recognized.
#
# Each file's copyright statement must be formatted correctly in
# order to be recognized. For example, each of these is fine:
#
# Copyright @copyright{ } 1990-2005, 2007-2009 Free Software
# Foundation, Inc.
#
# # Copyright (C) 1990-2005, 2007-2009 Free Software
# # Foundation, Inc.
#
# /*
#  * Copyright &copy; 1990,2005,2007-2009
#  * Free Software Foundation, Inc.
#  */
#
# However, the following format is not recognized because the line
# prefix changes after the first line:

```

```

#
# ## Copyright (C) 1990-2005, 2007-2009 Free Software
# # Foundation, Inc.
#
# However, any correctly formatted copyright statement following
# a non-matching copyright statements would be recognized.
#
# The exact conditions that a file's copyright statement must meet
# to be recognized are:
#
# 1. It is the first copyright statement that meets all of the
# following conditions. Subsequent copyright statements are
# ignored.
# 2. Its format is "Copyright (C)", then a list of copyright years,
# and then the name of the copyright holder.
# 3. The "(C)" takes one of the following forms or is omitted
# entirely:
#
# A. (C)
# B. (c)
# C. @copyright{ }
# D. &copy;
#
# 4. The "Copyright" appears at the beginning of a line, except that it
# may be prefixed by any sequence (e.g., a comment) of no more than
# 5 characters -- including white space.
# 5. If such a prefix is present, the same prefix appears at the
# beginning of each remaining line within the FSF copyright
# statement. There is one exception in order to support C-style
# comments: if the first line's prefix contains nothing but
# whitespace surrounding a "/*", then the prefix for all subsequent
# lines is the same as the first line's prefix except with each of
# "/" and possibly "*" replaced by a " ". The replacement of "*"
# by " " is consistent throughout all subsequent lines.
# 6. Blank lines, even if preceded by the prefix, do not appear
# within the FSF copyright statement.
# 7. Each copyright year is 2 or 4 digits, and years are separated by
# commas or dashes. Whitespace may appear after commas.
#
# Environment variables:
#
# 1. If UPDATE_COPYRIGHT_FORCE=1, a recognized FSF copyright statement
# is reformatted even if it does not need updating for the new
# year. If unset or set to 0, only updated FSF copyright
# statements are reformatted.
# 2. If UPDATE_COPYRIGHT_USE_INTERVALS=1, every series of consecutive
# copyright years (such as 90, 1991, 1992-2007, 2008) in a
# reformatted FSF copyright statement is collapsed to a single

```

```

# interval (such as 1990-2008). If unset or set to 0, all existing
# copyright year intervals in a reformatted FSF copyright statement
# are expanded instead.
# If UPDATE_COPYRIGHT_USE_INTERVALS=2, convert a sequence with gaps
# to the minimal containing range. For example, convert
# 2000, 2004-2007, 2009 to 2000-2009.
# 3. For testing purposes, you can set the assumed current year in
# UPDATE_COPYRIGHT_YEAR.
# 4. The default maximum line length for a copyright line is 72.
# Set UPDATE_COPYRIGHT_MAX_LINE_LENGTH to use a different length.
# 5. Set UPDATE_COPYRIGHT HOLDER if the copyright holder is other
# than "Free Software Foundation, Inc.".

```

```

use strict;
use warnings;

```

```

my $copyright_re = 'Copyright';
my $circle_c_re = '(?:\([cC]\)|@copyright{ }|&copy;);';
my $holder = $ENV{UPDATE_COPYRIGHT_HOLDER};
$holder ||= 'Free Software Foundation, Inc.';
my $prefix_max = 5;
my $margin = $ENV{UPDATE_COPYRIGHT_MAX_LINE_LENGTH};
!$margin || $margin =~ m/^\d+$/
and $margin = 72;

```

```

my $tab_width = 8;

```

```

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

```

```

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

```

```

my $leading;
my $prefix;
my $ws_re;
my $stmt_re;
while (/^(^\\n){0,$prefix_max}$copyright_re/g)
{
    $leading = "$1$2";
    $prefix = $2;
    if ($prefix =~ /^(s*\v)\*(s*)$/)
    {
        $prefix =~ s/,/, ;;
    }
}

```

```

my $prefix_ws = $prefix;
$prefix_ws =~ s/^\/; # Only whitespace.
if (/G(?:[^\n]*[^\n])*\?*\n$prefix_ws/)
{
    $prefix = $prefix_ws;
}
}
$ws_re = '[\t\r\f]'; # \s without \n
$ws_re =
"(?:$ws_re*(?:$ws_re\\n" . quotemeta($prefix) . ")$ws_re*)";
my $holder_re = $holder;
$holder_re =~ s/\s/$ws_re/g;
my $stmt_remainder_re =
"(?:$ws_re$circle_c_re)?"
. "$ws_re(?:\d\d)?\d\d(?:,$ws_re?|-)*"
. "((?:\d\d)?\d\d)$ws_re$holder_re";
if (/G$stmt_remainder_re/)
{
    $stmt_re =
    quotemeta($leading) . "($copyright_re$stmt_remainder_re)";
    last;
}
}
if (defined $stmt_re)
{
    /$stmt_re/ or die; # Should never die.
    my $stmt = $1;
    my $final_year_orig = $2;

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

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

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

        # Convert 2-digit to 4-digit years.

```

```

$stmt =~ s/(\b\d\d\b)/19$1/g;

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

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

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

```



```

    }
}

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

```

```

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

```

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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```
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1.24 GFX Linux KM 1.7

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```

```
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1.25 glib 2.43.4 :Feb 10 2015 Matthias Clasen

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

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1.26 glibc 2.20 :2014-09-07 Allan McRae

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

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Although the Lesser General Public License is Less protective of the

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

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

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

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1.27 Hammer.js 2.0.4

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1.28 highlander 0.9.97

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1.29 icu4c 49.1.2

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1.30 inotify-tools 3.13

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

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1.35 jpeg 6b

1.35.1 Notifications :

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1.35.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderrules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See

ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to

be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/graphics/jpeg/). This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrvc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only <ftp.uu.net> is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the <ftp.uu.net>

release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to

exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

*

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*/

/*

* Usage:

ansi2knr input_file [output_file]

* If no output_file is supplied, output goes to stdout.

* There are no error messages.

*

* ansi2knr recognizes function definitions by seeing a non-keyword

* identifier at the left margin, followed by a left parenthesis,

* with a right parenthesis as the last character on the line,

* and with a left brace as the first token on the following line

* (ignoring possible intervening comments).

* It will recognize a multi-line header provided that no intervening

* line ends with a left or right brace or a semicolon.

* These algorithms ignore whitespace and comments, except that

* the function name must be the first thing on the line.

* The following constructs will confuse it:

* - Any other construct that starts at the left margin and

* follows the above syntax (such as a macro or function call).

* - Some macros that tinker with the syntax of the function header.

*/

/*

* The original and principal author of ansi2knr is L. Peter Deutsch

* <ghost@aladdin.com>. Other authors are noted in the change history
* that follows (in reverse chronological order):
lpd 96-01-21 added code to cope with not HAVE_CONFIG_H and with
compilers that don't understand void, as suggested by
Tom Lane
lpd 96-01-15 changed to require that the first non-comment token
on the line following a function header be a left brace,
to reduce sensitivity to macros, as suggested by Tom Lane
<tgl@sss.pgh.pa.us>
lpd 95-06-22 removed #ifndefs whose sole purpose was to define
undefined preprocessor symbols as 0; changed all #ifndefs
for configuration symbols to #ifs
lpd 95-04-05 changed copyright notice to make it clear that
including ansi2knr in a program does not bring the entire
program under the GPL
lpd 94-12-18 added conditionals for systems where ctype macros
don't handle 8-bit characters properly, suggested by
Francois Pinard <pinard@iro.umontreal.ca>;
removed --varargs switch (this is now the default)
lpd 94-10-10 removed CONFIG_BROKETS conditional
lpd 94-07-16 added some conditionals to help GNU `configure',
suggested by Francois Pinard <pinard@iro.umontreal.ca>;
properly erase prototype args in function parameters,
contributed by Jim Avera <jima@netcom.com>;
correct error in writeblanks (it shouldn't erase EOLs)
lpd 89-xx-xx original version
*/

1.36 jQuery 2.1.4

1.37 json-c 0.11

1.37.1 Available under license :

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1.38 Idns 1.6.16 :2012-11-13

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1.39 less 458

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1.42 libffi 3.2.1 :Nov 12 2014 Anthony Green

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1.44 libpcap 1.7.2 :Feb. 12, 2015

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1.45 libunwind 1.1

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1.46 libupnp 1.6.19 :2013-11-14 Marcelo

Roberto Jimenez

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1.47 libusb 1.0.19 :2014-05-30

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1.48 libxml2 2.9.2

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1.49 libxslt 1.1.28

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1.50 linux 2.6.37

:TI81XXPSP_04.04.00.01.patch2

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Version 2, June 1991

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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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* along with this program; if not, write to the Free Software
* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

```

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1.52 Isof 4.88 :Vic Abell October 19, 2012

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1.54 markupsafe 0.18

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1.55 moment 2.10.6

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1.56 mousetrap 1.5.3

1.57 mtr 0.82

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```

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```

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

Ty Coon, President of Vice

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1.58 nanoScroller.js 0.7.6

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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
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13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
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16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
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42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver

43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
 44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
 45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
 46. [50]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
 47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
 48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
 49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
 50. [54]Michael Shields <shields@tembel.org> USNO clock driver
 51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
 52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
 53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
 54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
 55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
 56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
 57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
 58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
 59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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1.69 openldap 2.4.40 :(2014/09/20)

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1.70 openssh 6.7p1 :20131006

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*
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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.71 openssl 1.0.1m :[19 Mar 2015]

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

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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
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1.75 opus 1.1-alpha

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1.76 pcre 8.36 :26-September-2014

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1.77 pillow 2.6.0 :(2014-10-01)

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Why a fork?

PIL is not setuptools compatible. Please see ``this Image-SIG post`_` for a more detailed explanation. Also, PIL's current bi-yearly (or greater) release schedule is too infrequent to accommodate the large number and frequency of issues reported.

.. `_this Image-SIG post: https://mail.python.org/pipermail/image-sig/2010-August/006480.html`

What about PIL?

.. note::

Prior to Pillow 2.0.0, very few image code changes were made. Pillow 2.0.0 added Python 3 support and includes many bug fixes from many contributors.

As more time passes since the last PIL release, the likelihood of a new PIL release decreases. However, we've yet to hear an official "PIL is dead" announcement. So if you still want to support PIL, please ``report issues here first`_`, then ``open the corresponding Pillow tickets here`_`.

.. `_report issues here first: https://bitbucket.org/effbot/pil-2009-raclette/issues`

.. `_open the corresponding Pillow tickets here: https://github.com/python-pillow/Pillow/issues`

Please provide a link to the PIL ticket so we can track the issue(s) upstream.
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1.78 Portmap 4

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1.79 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

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1.80 protobuf 3.0.0 :2014-12-01

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1.81 python-lxml 3.3.5 :(2014-04-18)

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The isoschematron implementation uses several XSL and RelaxNG resources:

- * The (XML syntax) RelaxNG schema for schematron, copyright International Organization for Standardization (see src/lxml/isoschematron/resources/rng/iso-schematron.rng for the license text)
- * The skeleton iso-schematron-xslt1 pure-xslt schematron implementation xsl stylesheets, copyright Rick Jelliffe and Academia Sinica Computing Center, Taiwan (see the xsl files here for the license text: src/lxml/isoschematron/resources/xsl/iso-schematron-xslt1/)
- * The xsd/rng schema schematron extraction xsl transformations are unlicensed and copyright the respective authors as noted (see src/lxml/isoschematron/resources/xsl/RNG2Schtrn.xsl and src/lxml/isoschematron/resources/xsl/XSD2Schtrn.xsl)

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1.83 headline 5.2

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1.84 requests 2.5.1 :(2014-12-23)

1.84.1 Available under license :

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1.85 requests_packages 2.5.1 :(2014-12-23)

1.85.1 Available under license :

Requests includes some vendorized python libraries to ease installation.

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1.89 Snap.svg 0.4.0

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- Grunt ./node_modules/grunt

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- jQuery ./demos/animated-game/js/jquery-1.9.0.min.js

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1.90 spawn-fcgi 1.6.3

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1.91 strace 4.10 :2015-03-06 Dmitry V. Levin

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1.92 sudo 1.8.8

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1.93 syslog-ng 3.6.2

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====

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

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This is syslog-ng, written and maintained by <bazsi@balabit.hu>
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The original source can always be found at:

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```
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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

```
Ty Coon, President of Vice
```

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/* 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 part or all of the Bison parser skeleton and distribute that work under terms of your choice, so long as that work isn't itself a parser generator using the skeleton or a modified version thereof as a parser skeleton. Alternatively, if you modify or redistribute the parser skeleton itself, you may (at your option) remove this special exception, which will cause the skeleton and the resulting Bison output files to be licensed under the GNU General Public License without this special exception.

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/* 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
# endif
#endif

```

```

# 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

#ifndef __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. */
#   endif
#   ifndef EXIT_SUCCESS
#    define EXIT_SUCCESS 0
#   endif
#  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
# 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 YMALLOC || defined malloc) \
        && (defined YYFREE || defined free)))
# include <stdlib.h> /* INFRINGES ON USER NAME SPACE */
# ifndef EXIT_SUCCESS
# define EXIT_SUCCESS 0
# endif
# endif
# ifndef YMALLOC
# define YMALLOC 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 /* ! 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 yyallocc
{
  yytype_int16 yyss_alloc;
  YYSTYPE yyvs_alloc;
  YYLTYPE yyys_alloc;
};

/* The size of the maximum gap between one aligned stack and the next. */
# define YYSTACK_GAP_MAXIMUM (sizeof (union yyallocc) - 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, yynewbytes); \
    Stack = &yyptr->Stack_alloc; \
    yynewbytes = YYSTACKSIZE * sizeof (*Stack) + YYSTACK_GAP_MAXIMUM; \
    yyptr += yynewbytes / sizeof (*yyptr); \
} \
while (0)

#endif

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

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

```

```

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

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

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

/* YYTRANSLATE[TOKEN-NUM] -- Symbol number corresponding to TOKEN-NUM
   as returned by yylex, without out-of-bounds checking. */
static const yytype_uint8 yytranslate[] =
{
  0,  3,  4,  5,  6,  7,  8,  9, 10, 11,
 12, 13, 14, 15, 16, 17, 18, 19, 20,  2,
  2,  2,  2,  2,  2,  2,  2,  2,  2,  2,
  2,  2,  2,  2,  2,  2,  2,  2,  2,  2,
153, 154,  2,  2,  2,  2,  2,  2,  2,  2,
  2,  2,  2,  2,  2,  2,  2,  2, 158, 157,
  2,  2,  2,  2,  2,  2,  2,  2,  2,  2,
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2, 119, 2, 2, 2, 2, 2, 2, 2, 2,
120, 121, 122, 2, 2, 2, 2, 2, 2, 2,
123, 124, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
125, 126, 2, 2, 2, 2, 2, 2, 2, 2,
127, 128, 129, 130, 131, 132, 133, 134, 135, 136,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
137, 138, 139, 140, 141, 142, 143, 144, 145, 146,
147, 148, 2, 149, 150, 151, 152
};

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

```

```

#if YYDEBUG || YYERROR_VERBOSE || 1
/* YYTNAME[SYMBOL-NUM] -- String name of the symbol SYMBOL-NUM.
First, the terminals, then, starting at YYNTOKENS, nonterminals. */
static const char *const yytname[] =
{
"$end", "error", "$undefined", "LL_CONTEXT_ROOT",
"LL_CONTEXT_DESTINATION", "LL_CONTEXT_SOURCE", "LL_CONTEXT_PARSER",
"LL_CONTEXT_REWRITE", "LL_CONTEXT_FILTER", "LL_CONTEXT_LOG",
"LL_CONTEXT_BLOCK_DEF", "LL_CONTEXT_BLOCK_REF",

```

"LL_CONTEXT_BLOCK_CONTENT", "LL_CONTEXT_BLOCK_ARG", "LL_CONTEXT_PRAGMA",
 "LL_CONTEXT_FORMAT", "LL_CONTEXT_TEMPLATE_FUNC", "LL_CONTEXT_INNER_DEST",
 "LL_CONTEXT_INNER_SRC", "LL_CONTEXT_CLIENT_PROTO",
 "LL_CONTEXT_SERVER_PROTO", "KW_SOURCE", "KW_FILTER", "KW_PARSER",
 "KW_DESTINATION", "KW_LOG", "KW_OPTIONS", "KW_INCLUDE", "KW_BLOCK",
 "KW_JUNCTION", "KW_CHANNEL", "KW_INTERNAL", "KW_FILE", "KW_SQL",
 "KW_TYPE", "KW_COLUMNS", "KW_INDEXES", "KW_VALUES", "KW_PASSWORD",
 "KW_DATABASE", "KW_USERNAME", "KW_TABLE", "KW_ENCODING",
 "KW_SESSION_STATEMENTS", "KW_DELIMITERS", "KW_QUOTES", "KW_QUOTE_PAIRS",
 "KW_NULL", "KW_SYSLOG", "KW_MARK_FREQ", "KW_STATS_FREQ",
 "KW_STATS_LEVEL", "KW_STATS_LIFETIME", "KW_FLUSH_LINES", "KW_SUPPRESS",
 "KW_FLUSH_TIMEOUT", "KW_LOG_MSG_SIZE", "KW_FILE_TEMPLATE",
 "KW_PROTO_TEMPLATE", "KW_MARK_MODE", "KW_CHAIN_HOSTNAMES",
 "KW_NORMALIZE_HOSTNAMES", "KW_KEEP_HOSTNAME", "KW_CHECK_HOSTNAME",
 "KW_BAD_HOSTNAME", "KW_KEEP_TIMESTAMP", "KW_USE_DNS", "KW_USE_FQDN",
 "KW_CUSTOM_DOMAIN", "KW_DNS_CACHE", "KW_DNS_CACHE_SIZE",
 "KW_DNS_CACHE_EXPIRE", "KW_DNS_CACHE_EXPIRE_FAILED",
 "KW_DNS_CACHE_HOSTS", "KW_PERSIST_ONLY", "KW_USE_RCPTID",
 "KW_TZ_CONVERT", "KW_TS_FORMAT", "KW_FRAC_DIGITS", "KW_LOG_FIFO_SIZE",
 "KW_LOG_FETCH_LIMIT", "KW_LOG_IW_SIZE", "KW_LOG_PREFIX",
 "KW_PROGRAM_OVERRIDE", "KW_HOST_OVERRIDE", "KW_THROTTLE", "KW_THREADED",
 "KW_FLAGS", "KW_PAD_SIZE", "KW_TIME_ZONE", "KW_RECV_TIME_ZONE",
 "KW_SEND_TIME_ZONE", "KW_LOCAL_TIME_ZONE", "KW_FORMAT", "KW_TIME_REOPEN",
 "KW_TIME_REAP", "KW_TIME_SLEEP", "KW_TMPL_ESCAPE", "KW_OPTIONAL",
 "KW_CREATE_DIRS", "KW_OWNER", "KW_GROUP", "KW_PERM", "KW_DIR_OWNER",
 "KW_DIR_GROUP", "KW_DIR_PERM", "KW_TEMPLATE", "KW_TEMPLATE_ESCAPE",
 "KW_DEFAULT_FACILITY", "KW_DEFAULT_LEVEL", "KW_PORT",
 "KW_USE_TIME_RECVD", "KW_FACILITY", "KW_LEVEL", "KW_HOST", "KW_MATCH",
 "KW_MESSAGE", "KW_NETMASK", "KW_TAGS", "KW_VALUE", "KW_REWRITE",
 "KW_SET", "KW_SUBST", "KW_YES", "KW_NO", "KW_IFDEF", "KW_ENDIF",
 "LL_DOTDOT", "LL_IDENTIFIER", "LL_NUMBER", "LL_FLOAT", "LL_STRING",
 "LL_TOKEN", "LL_BLOCK", "LL_PRAGMA", "LL_EOL", "LL_ERROR",
 "KW_VALUE_PAIRS", "KW_SELECT", "KW_EXCLUDE", "KW_PAIR", "KW_KEY",
 "KW_SCOPE", "KW_SHIFT", "KW_REKEY", "KW_ADD_PREFIX", "KW_REPLACE_PREFIX",
 "KW_ON_ERROR", "KW_RETRIES", "KW_CONDITION", "KW_SET_TAG",
 "KW_CLEAR_TAG", "KW_GROUP_SET", "(", ")", "{", "}", ";", ":",
 "\$accept", "start", "rewrite_expr_list", "rewrite_template_content",
 "rewrite_expr", "\$@1", "\$@2", "\$@3", "rewrite_groupset_opts",
 "rewrite_groupset_opt", "rewrite_subst_opts", "rewrite_subst_opt", "\$@4",
 "rewrite_expr_opts", "rewrite_expr_opt", "rewrite_condition_opt", "\$@5",
 "source_content", "\$@6", "\$@7", "source_items", "source_item",
 "source_plugin", "source_afinter", "source_afinter_params", "\$@8",
 "source_afinter_options", "source_afinter_option", "filter_content",
 "parser_content", "rewrite_content", "dest_content", "\$@9", "\$@10",
 "dest_items", "dest_item", "dest_plugin", "log_items", "log_item",
 "log_junction", "log_last_junction", "log_forks", "log_fork",
 "log_content", "log_flags", "log_flags_items", "string", "yesno",
 "dnsmode", "string_list", "string_list_build", "semicolons",

```

"source_option", "$@12", "host_resolve_option", "matcher_option",
"matcher_flags", YY_NULLPTR
};
#endif

# ifdef YYPRINT
/* YYTOKNUM[NUM] -- (External) token number corresponding to the
   (internal) symbol number NUM (which must be that of a token). */
static const yytype_uint16 yytoknum[] =
{
    0, 256, 10512, 1, 2, 3, 4, 5, 6, 7,
    8, 9, 10, 11, 12, 13, 14, 15, 16, 17,
    18, 10000, 10001, 10002, 10003, 10004, 10005, 10006, 10007, 10008,
    10009, 10010, 10011, 10030, 10031, 10032, 10033, 10034, 10035, 10036,
    10037, 10038, 10039, 10040, 10050, 10051, 10052, 10053, 10060, 10071,
    10072, 10073, 10074, 10075, 10076, 10077, 10078, 10079, 10080, 10081,
    10090, 10091, 10092, 10093, 10094, 10100, 10110, 10111, 10112, 10120,
    10121, 10130, 10131, 10132, 10140, 10141, 10150, 10151, 10152, 10160,
    10162, 10163, 10164, 10165, 10166, 10170, 10171, 10190, 10200, 10201,
    10202, 10203, 10204, 10205, 10210, 10211, 10212, 10220, 10230, 10240,
    10250, 10251, 10252, 10260, 10261, 10262, 10270, 10271, 10300, 10301,
    10323, 10340, 10350, 10351, 10352, 10353, 10354, 10355, 10356, 10361,
    10370, 10371, 10372, 10380, 10381, 10410, 10411, 10420, 10421, 10422,
    10423, 10424, 10425, 10426, 10427, 10428, 10429, 10500, 10501, 10502,
    10503, 10504, 10505, 10506, 10507, 10508, 10509, 10510, 10511, 10513,
    10514, 10515, 10516, 40, 41, 123, 125, 59, 58
};
# endif

#define YYPACT_NINF -106

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

#define YYTABLE_NINF -45

#define yytable_value_is_error(Yytable_value) \
    0

/* YYPACT[STATE-NUM] -- Index in YYTABLE of the portion describing
   STATE-NUM. */
static const yytype_int8 yypact[] =
{
    -15, -87, -73, -65, -106, -59, -58, -57, 97, 17,
    -54, -54, 17, -75, -75, -75, -75, -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
};

```

```

/* YYDEFAC[T] -- Default reduction number in state STATE-NU[M].

```

```

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", yyname[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 = yrline[yyrule];
    int yynrhs = yr2[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 yyenamerr
/* 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 yyname. If YYRES is
null, do not copy; instead, return the length of what the result
would have been. */
static YYSIZE_T
yyenamerr (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 yystrcpy (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 (YYSTYPE_T *yymsg_alloc, char **yymsg,
                yytype_int16 *yyssp, int yytoken)
{
    YYSIZE_T yysize0 = yytnamerr (YY_NULLPTR, yyname[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++] = yyname[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 yyname. */
        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++] = yyname[yyx];
                {
                    YYSIZE_T yysize1 = yysize + yyname[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 (*yymmsg_alloc < yysize)
{
  *yymmsg_alloc = 2 * yysize;
  if (! (yysize <= *yymmsg_alloc
        && *yymmsg_alloc <= YYSTACK_ALLOC_MAXIMUM))
    *yymmsg_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 = *yymmsg;
  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 yynstate;
/* 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 = yyll = 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 *yyll1 = yyll;

```

```

/* 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 = yy1s;
yyss = yyss1;
yyvs = yyvs1;
}
#else /* no yyoverflow */
# ifdef 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, yy1s);
# undef YYSTACK_RELOCATE
        if (yyss1 != yyssa)
            YYSTACK_FREE (yyss1);
    }
# endif
#endif /* no yyoverflow */

yyssp = yyss + yysize - 1;
yyvsp = yyvs + yysize - 1;
yylsp = yy1s + 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. */
 yrlen = 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. */
YYLOC_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, &yyival); } 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),
(yyvsp[-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 */

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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 */

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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; }

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#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); }

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#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 = strchr((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 *ymsgp = YY_("syntax error");
    int yysyntax_error_status;
    yysyntax_error_status = YYSYNTAX_ERROR;
    if (yysyntax_error_status == 0)
        ymsgp = yymsg;
    else if (yysyntax_error_status == 1)
        {
            if (yymsg != ymsgbuf)
                YYSTACK_FREE (yymsg);
            yymsg = (char *) YYSTACK_ALLOC (yymsg_alloc);
            if (!yymsg)
                {
                    yymsg = ymsgbuf;
                    yymsg_alloc = sizeof ymsgbuf;
                    yysyntax_error_status = 2;
                }
            else
                {
                    yysyntax_error_status = YYSYNTAX_ERROR;
                    ymsgp = yymsg;
                }
        }
    yyerror (&yylloc, lexer, result, arg, ymsgp);
    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",
                  ytoken, &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);
YYPPOPSTACK (1);
yystate = *yyssp;
YY_STACK_PRINT (yyss, yyssp);
}

YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
*++yyvsp = yylval;
YY_IGNORE_MAYBE_UNINITIALIZED_END

yyerror_range[2] = yyloc;
/* 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 (&yyloc, 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, &yyval, &yyloc, 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);
}
#ifdef yyoverflow
if (yyss != yyssa)
YYSTACK_FREE (yyss);
#endif
#ifdef 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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1.94 sysvinit 2.88dsf

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The of the start-stop-daemon

- * A rewrite of the original Debian's start-stop-daemon Perl script
- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.95 tablesorter 2.23.2

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1.96 tcpdump 4.7.3 :March. 11, 2015

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

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

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```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.102 ujson 1.33

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Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)

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Numeric decoder derived from from TCL library

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1.103 underscore.js 1.8.3

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1.104 util-linux 2.22.2

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```

```
<signature of Ty Coon>, 1 April 1989
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However, I (Ben) reworked the MAC-VLAN code extensively, including re-writing all of the locking code. So, any complaints & bugs should come to me.

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Bundled Libraries:

***** Base 64 Library (base64/base64.hpp) *****

base64.hpp is a repackaging of the base64.cpp and base64.h files into a single header suitable for use as a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012. All modifications to the code are redistributed under the same license as the original, which is listed below.

base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

***** SHA1 Library (sha1/sha1.hpp) *****

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md5.hpp is a reformulation of the md5.h and md5.c code from <http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c> to allow it to function as a component of a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012 for the WebSocket++ project. The changes are released under the same license as the original (listed below)

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L. Peter Deutsch
ghost@aladdin.com

***** UTF8 Validation logic (utf8_validation.hpp) *****

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1.108 wpa_supPLICant 0.7 :3

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1.110 zlib 1.2.8

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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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