



# Open Source Used In LoRaWAN Interface Module Software 2.2.0

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# 1.3 mongoose-web-server 3.5

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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

# 1.6 zlib 1.2.3

minibz2

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libbz2.dll test program.

Julian Seward, Cambridge, UK.

/\* zlib.h -- interface of the 'zlib' general purpose compression library version 1.1.4, March 11th, 2002

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Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

\*/

/\* match.s -- Pentium-optimized version of longest\_match()

- \* Written for zlib 1.1.2
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# 1.7 apr-util 1.5.4

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

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\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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

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

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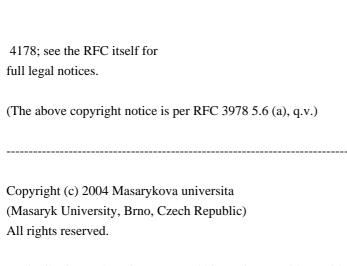
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## 1.12 libxml2 2.9.4

## 1.12.1 Available under license:

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/\*

\* hash.c: chained hash tables

\*

\* Reference: Your favorite introductory book on algorithms

\*

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\*

\* Author: breese@users.sourceforge.net

\*/

/\*

\*

\* \$Id\$

\*

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## 1.13 bash 3.2.57

## 1.13.1 Available under license:

From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP

(8.6.10+cwru/CWRU-2.1-ins)

id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)

Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT

Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT

Message-Id: <9505251618.AA16031@tepui.cli.com> From: friedman@gnu.ai.mit.edu (Noah Friedman)

To: chet@po.cwru.edu Subject: Bash scripts

Reply-To: friedman@gnu.ai.mit.edu

In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400

References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>

Date: Thu, 25 May 95 11:18:21 CST

```
>Hi. I snagged
some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.
Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.
It should serve as a pretty good example of how to get carried away. :-)
From speecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from speecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from speedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcedt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
   "ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>
  Sure. The canonical versions are available on ftp.armory.com; you might
want to pick up the latest versions
before modifying them.
    John
On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
       9 May 95 10:39 PDT
Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
```

```
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
a while back. I'd like your permission to include modified versions
} of some of them in
the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
} Chet Ramey
\``The lyf so short, the craft so long to lerne." - Chaucer
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
   GNU GENERAL PUBLIC LICENSE
     Version 2, June 1991
```

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@c ispell-local-pdict: "ispell-dict"

@c End:

From mikel@ora.com Tue Aug 1 12:13:20 1995

Flags: 10

Return-Path: mikel@ora.com

Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)

id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995

12:07:51 -0400

Received: by los.ora.com (4.1/Spike-2.1) id AA00672; Tue, 1 Aug 95 08:57:32 EDT

Date: Tue, 1 Aug 95 08:57:32 EDT

From: mikel@ora.com (Michael Loukides)

Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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

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That's great!

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

\_\_\_\_\_

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# 6572217a0e71fdc13c9ea5571203187f383665e

0

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# 1.15 curl 7.54.1

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## 1.20 zlib 1.2.11

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/\* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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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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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see

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2.0   1	1.6  2	2000	BeOpe	en.com   no	
1.6.1	1.6	2001	CNR	I   no	
2.1	2.0+1.6.1	2001	PSI	F   no	
2.0.1	2.0+1.6.1	200	1   PS	F   yes	
2.1.1	2.1+2.0.1	200	1   PS	F   yes	
2.1.2	2.1.1	2002	PSF	yes	
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Mersenne Twister

-----

The :mod:`\_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program

for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init\_genrand(seed) or init\_by\_array(init\_key, key\_length).

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Any feedback is very welcome. http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

-----

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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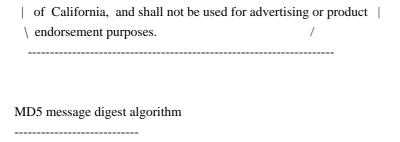
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# L. Peter Deutsch ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of

Appendix A. It does not include

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed

references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.

1999-11-04 lpd Edited comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

Asynchronous socket services

-----

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UUencode and UUdecode functions

\_\_\_\_\_

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

-----

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strtod and dtoa

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\*

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Mersenne Twister

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The :mod:`\_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program

for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init\_genrand(seed) or init\_by\_array(init\_key, key\_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

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The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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MD5 message digest algorithm

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# L. Peter Deutsch ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

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The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.

1999-11-04 lpd Edited comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

Asynchronous socket services

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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# 1.24 apache-http-server 2.4.41

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--</pre>
```

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prettyPrint();

}

href="./sitemap.html">Sitemap</a></div><script type="text/javascript"><!--/--><![CDATA[//><!--

//--><!]]></script>
</body></html>
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/\* ZeusBench V1.01

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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# 1.28 libdaemon 0.14

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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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\*/

```
/* OPENBSD ORIGINAL: sys/sys/poll.h */
#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef COMPAT POLL H
#define _COMPAT_POLL_H_
typedef struct pollfd {
int fd:
short events;
short revents;
} pollfd_t;
typedef unsigned int nfds_t;
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM
                        POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
```

```
#define INFTIM (-1) /* not
standard */
int poll(struct pollfd *, nfds_t, int);
#endif /*! COMPAT POLL H */
#endif /* !HAVE POLL H */
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*/
#ifndef BSD WAITPID H
#define _BSD_WAITPID_H
#ifndef HAVE WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
```

```
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
/* Prototype */
pid_t waitpid(int,
int *, int);
#endif /* !HAVE_WAITPID */
#endif /* BSD WAITPID H */
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#ifndef HAVE SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

# 1.30 ifplugd 0.28

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Version 2, June 1991

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# 1.34 ncurses 6.1

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-- vile: txtmode file-encoding=utf-8 Upstream source https://invisible-island.net/ncurses/ncurses.html This package is used for testing builds of ncurses.

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Files: progs/tset.c ncurses/tinfo/read\_termcap.c

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# 1.35 bridgeutils 1.5

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

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

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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

Author: Julio Merino <jmmv84@gmail.com>

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

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<!-- $Id$ -->
```

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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
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<xsl:variable name="isc.copyright.text">
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   file, You can obtain one at http://mozilla.org/MPL/2.0/.
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</xsl:variable>
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  <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
     <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
<!--
- Local variables:
- mode: sgml
- End:
-->
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  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

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

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# 1.43 librabbitmq 0.5.3

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```
*/
```

Index: tdbsa/tdb.c

\_\_\_\_\_\_

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

- Unix SMB/CIFS implementation.

- + trivial database library standalone version
- trivial database library private includes

-

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Gadi Oxman, August 1995

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23-June-2007		

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Version 2, June 1991

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

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

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

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

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```
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DAMAGE.
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
# In order to use this stub, the following makefile variables must be defined.
# BSDLIB_VERSION = 1.0
# BSDLIB IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
all:: image
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
image: $(BSD_LIB)
$(BSD LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
MV) pic/SD_LIB).
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'\$(BSD_LIB) $(BSD_LIB))
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
 $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
install-strip: install
install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean::
```

\$(RM)

-rf pic \$(RM) -f \$(BSD\_LIB) \$(RM) -f ../\$(BSD\_LIB)

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

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

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# 1.45.1 Available under license:

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## 1.49 cryptsetup 1.6.0

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Version 4 and are acknowledged as authors of this work.

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- 2. [2]Mark Andrews <mark\_andrews@isc.org> Leitch atomic clock controller
- 3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
- 4. [4] Viraj Bais <vbais@mailman1.intel.com> and [5] Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- 5. [6] Michael Barone < michael, barone@lmco.com > GPSVME fixes

- 6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- 7. [8] Greg Brackley < greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recybuf and iosignal code into separate modules.
- 8. [9]Marc Brett < Marc.Brett@westgeo.com > Magnavox GPS clock driver
- 9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
- 10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features

## in sntp

- 11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
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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
- 15. [16]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
- 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
- 19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
- 20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
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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
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- 27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
- 28. [30]Frank Kardel [31]<a href="kardel">kardel</a> (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 <a href="kuehn@ntp.org">kewrote sntp to comply with NTPv4 specification, ntpq saveconfig</a>
- 30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
- 31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
- 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
- 39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
- 40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
- 41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
- 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 Snchez <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 <a href="mailto:sharlan@pfcs.com">harlan@pfcs.com</a>> 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 <a href="mailto:strength">brian.utterback@oracle.com</a>> 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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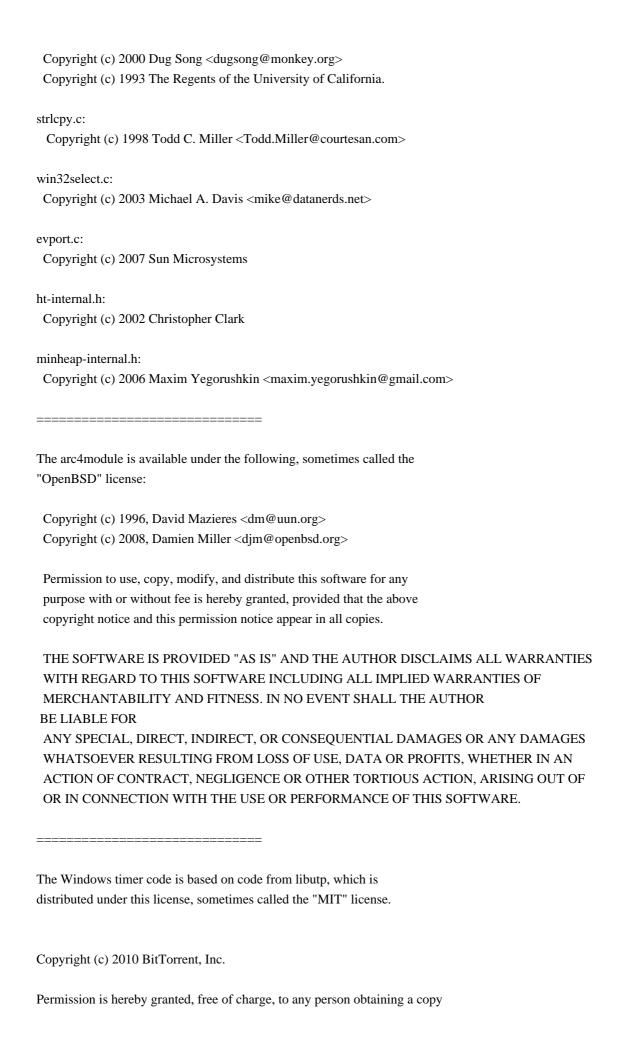
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
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* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
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* 10/1/97 - 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
* (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
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* M. Welsh, 6 July 1996
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(in case you are wondering where CyberLogin is, EON changed its login

procedure and CyberLogin is no longer used.)

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Ernst Peinlich <e.peinlich@inode.at> for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner < p.beutner@gmx.net> for the IR code for the ttusb-dec driver

Wilson Michaels <a href="mailto:wilsonmichaels@earthlink.net">wilsonmichaels@earthlink.net</a> for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@linuxtv.org> for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net> for the nxt2002 frontend driver

Jean-Francois Thibert < jeanfrancois@sagetv.com> for the nxt2004 frontend driver

Kirk Lapray <a href="mailto:kirk.lapray@gmail.com">kirk Lapray@gmail.com</a> for the or51211 and or51132 frontend drivers, and for merging the nxt2002 and nxt2004 modules into a single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

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# 1.60 util-linux 2.26.0

# 1.60.1 Available under license:

NR START END SECTORS SIZE NAME UUID

1 32 7679 7648 3.7M 8f8378c0-01

2 7680 16383 8704 4.3M 8f8378c0-02

5 7936 12799 4864 2.4M

6 12544 16127 3584 1.8M

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

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## 1.66 attr 2.4.47-r0

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Version 2.1, February 1999

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## 1.67 fdisk 2.26.0

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This is syslog-ng, written and maintained by <bazsi@balabit.hu> on Sat, 03 Mar 2007 16:07:59 +0100

The original source can always be found at: http://www.balabit.hu/downloads/files/syslog-ng

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  Varion 2.1 February 1000

Version 2.1, February 1999

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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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This special exception was added by the Free Software Foundation in version 2.2 of Bison. \*/ /\* C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser. \*/ /\* All symbols defined below should begin with yy or YY, to avoid infringing on user name space. This should be done even for local variables, as they might otherwise be expanded by user macros. There are some unavoidable exceptions within include files to define necessary library symbols; they are noted "INFRINGES ON USER NAME SPACE" below. \*/ /\* Identify Bison output. \*/ #define YYBISON 1 /\* Bison version. \*/ #define YYBISON\_VERSION "3.0.2" /\* Skeleton name. \*/ #define YYSKELETON\_NAME "yacc.c" /\* Pure parsers. \*/ #define YYPURE 1 /\* Push parsers. \*/ #define YYPUSH 0 /\* Pull parsers. \*/ #define YYPULL 1 /\* Substitute the variable and function names. \*/ #define yyparse rewrite\_expr\_parse #define yylex rewrite\_expr\_lex #define yyerror rewrite\_expr\_error #define yydebug rewrite\_expr\_debug #define yynerrs rewrite\_expr\_nerrs /\* Copy the first part of user declarations. \*/

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

```
# ifndef YY NULLPTR
# if defined __cplusplus && 201103L <= __cplusplus
# define YY_NULLPTR nullptr
# else
# define YY_NULLPTR 0
# endif
# endif
/* Enabling verbose error messages. */
#ifdef YYERROR_VERBOSE
# undef YYERROR_VERBOSE
# define YYERROR_VERBOSE 1
#else
# define YYERROR_VERBOSE 1
#endif
/* In a future release of Bison,
this section will be replaced
 by #include "y.tab.h". */
#ifndef YY REWRITE EXPR LIB REWRITE REWRITE EXPR GRAMMAR H INCLUDED
# define YY_REWRITE_EXPR_LIB_REWRITE_REWRITE_EXPR_GRAMMAR_H_INCLUDED
/* Debug traces. */
#ifndef YYDEBUG
# define YYDEBUG 0
#endif
#if YYDEBUG
extern int rewrite_expr_debug;
#endif
/* "%code requires" blocks. */
#line 25 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:355 */
#include "rewrite/rewrite-expr-parser.h"
#line 109 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:355 */
/* Token type. */
#ifndef YYTOKENTYPE
# define YYTOKENTYPE
enum yytokentype
 LL_CONTEXT_ROOT = 1,
 LL_CONTEXT_DESTINATION = 2,
 LL_CONTEXT_SOURCE = 3,
 LL_CONTEXT_PARSER = 4,
 LL_CONTEXT_REWRITE = 5,
```

```
LL_CONTEXT_FILTER = 6,
LL_CONTEXT_LOG = 7,
LL_CONTEXT_BLOCK_DEF = 8,
LL_CONTEXT_BLOCK_REF = 9,
LL_CONTEXT_BLOCK_CONTENT = 10,
LL_CONTEXT_BLOCK_ARG = 11,
LL CONTEXT PRAGMA = 12,
LL_CONTEXT_FORMAT = 13,
LL_CONTEXT_TEMPLATE_FUNC
= 14.
LL_CONTEXT_INNER_DEST = 15,
LL_CONTEXT_INNER_SRC = 16,
LL_CONTEXT_CLIENT_PROTO = 17,
LL_CONTEXT_SERVER_PROTO = 18,
KW_SOURCE = 10000,
KW_FILTER = 10001,
KW_PARSER = 10002,
KW DESTINATION = 10003,
KW_LOG = 10004,
KW_OPTIONS = 10005,
KW INCLUDE = 10006,
KW_BLOCK = 10007,
KW_JUNCTION = 10008,
KW CHANNEL = 10009,
KW_INTERNAL = 10010,
KW FILE = 10011,
KW SQL = 10030,
KW_TYPE = 10031,
KW_COLUMNS = 10032,
KW INDEXES = 10033,
KW_VALUES = 10034,
KW_PASSWORD = 10035,
KW_DATABASE = 10036,
KW_USERNAME = 10037,
KW_TABLE = 10038,
KW_ENCODING = 10039,
KW_SESSION_STATEMENTS = 10040,
KW_DELIMITERS = 10050,
KW_QUOTES = 10051,
KW_QUOTE_PAIRS = 10052,
KW_NULL = 10053,
KW_SYSLOG = 10060,
KW_MARK_FREQ = 10071,
KW\_STATS\_FREQ = 10072,
KW\_STATS\_LEVEL = 10073,
KW\_STATS\_LIFETIME = 10074,
```

KW\_FLUSH\_LINES = 10075, KW\_SUPPRESS = 10076,

KW\_FLUSH\_TIMEOUT = 10077, $KW\_LOG\_MSG\_SIZE = 10078,$  $KW_FILE_TEMPLATE = 10079,$  $KW_PROTO_TEMPLATE = 10080,$  $KW_MARK_MODE = 10081,$ KW CHAIN HOSTNAMES = 10090, KW\_NORMALIZE\_HOSTNAMES = 10091,  $KW_KEEP_HOSTNAME = 10092,$ KW CHECK HOSTNAME = 10093, KW\_BAD\_HOSTNAME = 10094,  $KW_KEEP_TIMESTAMP = 10100,$ KW USE DNS = 10110,  $KW_USE_FQDN = 10111,$ KW\_CUSTOM\_DOMAIN = 10112,  $KW_DNS_CACHE = 10120,$ KW\_DNS\_CACHE\_SIZE = 10121, KW DNS CACHE EXPIRE = 10130, KW\_DNS\_CACHE\_EXPIRE\_FAILED = 10131,  $KW_DNS_CACHE_HOSTS = 10132,$ KW PERSIST ONLY = 10140,  $KW_USE_RCPTID = 10141,$  $KW_TZ_CONVERT = 10150,$ KW TS FORMAT = 10151,  $KW_FRAC_DIGITS = 10152,$ KW LOG FIFO SIZE = 10160, KW LOG FETCH LIMIT = 10162,  $KW\_LOG\_IW\_SIZE = 10163,$ KW LOG PREFIX = 10164, KW\_PROGRAM\_OVERRIDE = 10165, KW\_HOST\_OVERRIDE = 10166,  $KW_THROTTLE = 10170,$  $KW_THREADED = 10171,$ KW FLAGS = 10190,  $KW_PAD_SIZE = 10200,$  $KW_TIME_ZONE = 10201,$  $KW_RECV_TIME_ZONE = 10202,$  $KW\_SEND\_TIME\_ZONE = 10203,$ KW\_LOCAL\_TIME\_ZONE = 10204,  $KW_FORMAT = 10205$ ,  $KW_TIME_REOPEN = 10210$ ,  $KW_TIME_REAP = 10211$ ,  $KW_TIME_SLEEP = 10212,$  $KW_TMPL_ESCAPE = 10220$ ,  $KW_OPTIONAL = 10230$ ,  $KW_CREATE_DIRS = 10240$ ,

 $KW_OWNER = 10250,$ 

```
KW_GROUP = 10251,
```

 $KW_PERM = 10252,$ 

 $KW_DIR_OWNER = 10260$ ,

 $KW_DIR_GROUP = 10261$ ,

 $KW_DIR_PERM = 10262,$ 

 $KW_TEMPLATE = 10270,$ 

KW TEMPLATE ESCAPE = 10271,

KW\_DEFAULT\_FACILITY = 10300,

KW\_DEFAULT\_LEVEL = 10301,

KW PORT = 10323,

 $KW_USE_TIME_RECVD = 10340$ ,

 $KW_FACILITY = 10350,$ 

KW LEVEL = 10351,

 $KW_HOST = 10352$ ,

 $KW_MATCH = 10353,$ 

 $KW\_MESSAGE = 10354,$ 

 $KW_NETMASK = 10355,$ 

KW TAGS = 10356,

 $KW_VALUE = 10361,$ 

 $KW_REWRITE = 10370,$ 

KW SET = 10371,

 $KW\_SUBST = 10372,$ 

 $KW_YES = 10380,$ 

 $KW_NO = 10381$ ,

 $KW_IFDEF = 10410,$ 

 $KW\_ENDIF = 10411,$ 

LL DOTDOT = 10420,

 $LL_IDENTIFIER = 10421,$ 

LL NUMBER = 10422,

LL\_FLOAT

= 10423,

 $LL\_STRING = 10424,$ 

 $LL\_TOKEN = 10425,$ 

 $LL_BLOCK = 10426$ ,

 $LL_PRAGMA = 10427,$ 

 $LL_EOL = 10428,$ 

 $LL\_ERROR = 10429$ ,

 $KW_VALUE_PAIRS = 10500,$ 

 $KW\_SELECT = 10501,$ 

 $KW\_EXCLUDE = 10502,$ 

 $KW_PAIR = 10503,$ 

 $KW\_KEY = 10504,$ 

 $KW\_SCOPE = 10505$ ,

 $KW_SHIFT = 10506,$ 

 $KW_REKEY = 10507,$ 

 $KW\_ADD\_PREFIX = 10508,$ 

 $KW_REPLACE_PREFIX = 10509,$ 

 $KW_ON_ERROR = 10510$ ,

```
KW_RETRIES = 10511,
 KW_CONDITION = 10513,
 KW\_SET\_TAG = 10514,
 KW\_CLEAR\_TAG = 10515,
 KW_GROUP_SET = 10516
};
#endif
/* Tokens. */
#define LL_CONTEXT_ROOT 1
#define LL CONTEXT DESTINATION 2
#define LL_CONTEXT_SOURCE 3
#define LL_CONTEXT_PARSER 4
#define LL_CONTEXT_REWRITE 5
#define LL_CONTEXT_FILTER 6
#define LL_CONTEXT_LOG 7
#define LL_CONTEXT_BLOCK_DEF 8
#define LL_CONTEXT_BLOCK_REF 9
#define LL CONTEXT BLOCK CONTENT 10
#define LL_CONTEXT_BLOCK_ARG 11
#define LL_CONTEXT_PRAGMA 12
#define LL CONTEXT FORMAT 13
#define LL_CONTEXT_TEMPLATE_FUNC 14
#define LL_CONTEXT_INNER_DEST
#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 ibintl.h> /* INFRINGES ON USER NAME SPACE */
# define YY_(Msgid) dgettext ("bison-runtime", Msgid)
# endif
# endif
# ifndef YY_
# define YY_(Msgid) Msgid
# endif
#endif
#ifndef YY_ATTRIBUTE
# if (defined __GNUC__
  && (2 < __GNUC__ || (__GNUC__ == 2 && 96 <= __GNUC_MINOR__))) \
  || defined __SUNPRO_C && 0x5110 <= __SUNPRO_C
# define YY_ATTRIBUTE(Spec) __attribute__(Spec)
```

```
# else
# define YY_ATTRIBUTE(Spec) /* empty */
# endif
#endif
#ifndef YY_ATTRIBUTE_PURE
# define YY_ATTRIBUTE_PURE YY_ATTRIBUTE ((__pure__))
#endif
#ifndef YY ATTRIBUTE UNUSED
# define YY_ATTRIBUTE_UNUSED YY_ATTRIBUTE ((__unused__))
#endif
#if !defined _Noreturn \
  && (!defined __STDC_VERSION__ || __STDC_VERSION__ < 201112)
# if defined MSC VER && 1200 <= MSC VER
# define _Noreturn
 declspec (noreturn)
# else
# define _Noreturn YY_ATTRIBUTE ((__noreturn__))
# endif
#endif
/* Suppress unused-variable warnings by "using" E. */
#if! defined lint || defined __GNUC__
# define YYUSE(E) ((void) (E))
#else
# define YYUSE(E) /* empty */
#endif
#if defined __GNUC__ && 407 <= __GNUC__ * 100 + __GNUC_MINOR__
/* Suppress an incorrect diagnostic about yylval being uninitialized. */
# define YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN \
 _Pragma ("GCC diagnostic push") \
 _Pragma ("GCC diagnostic ignored \"-Wuninitialized\"")\
 _Pragma ("GCC diagnostic ignored \"-Wmaybe-uninitialized\"")
# define YY_IGNORE_MAYBE_UNINITIALIZED_END \
 _Pragma ("GCC diagnostic pop")
#else
# define YY_INITIAL_VALUE(Value) Value
#endif
#ifndef YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
# define YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
# define YY_IGNORE_MAYBE_UNINITIALIZED_END
#endif
#ifndef YY_INITIAL_VALUE
# define YY_INITIAL_VALUE(Value) /* Nothing. */
#endif
```

```
#if! defined yyoverflow || YYERROR_VERBOSE
The parser invokes alloca or malloc; define the necessary symbols. */
# ifdef YYSTACK_USE_ALLOCA
# if YYSTACK_USE_ALLOCA
# ifdef GNUC
# define YYSTACK_ALLOC __builtin_alloca
# elif defined __BUILTIN_VA_ARG_INCR
# include <alloca.h> /* INFRINGES ON USER NAME SPACE */
# elif defined _AIX
# define YYSTACK_ALLOC __alloca
# elif defined MSC VER
# include <malloc.h> /* INFRINGES ON USER NAME SPACE */
# define alloca alloca
# else
# define YYSTACK_ALLOC alloca
# if!defined ALLOCA H &&!defined EXIT SUCCESS
# include <stdlib.h> /* INFRINGES ON USER NAME SPACE */
  /* Use EXIT_SUCCESS as a witness for stdlib.h. */
# ifndef EXIT SUCCESS
  define EXIT_SUCCESS 0
# endif
# endif
# endif
# endif
# endif
# ifdef YYSTACK ALLOC
/* Pacify GCC's 'empty if-body' warning. */
# define YYSTACK_FREE(Ptr) do { /* empty */; } while (0)
# ifndef YYSTACK_ALLOC_MAXIMUM
 /* The OS might guarantee only one guard page at
the bottom of the stack,
   and a page size can be as small as 4096 bytes. So we cannot safely
   invoke alloca (N) if N exceeds 4096. Use a slightly smaller number
   to allow for a few compiler-allocated temporary stack slots. */
# define YYSTACK_ALLOC_MAXIMUM 4032 /* reasonable circa 2006 */
# endif
# else
# define YYSTACK_ALLOC YYMALLOC
# define YYSTACK_FREE YYFREE
# ifndef YYSTACK_ALLOC_MAXIMUM
# define YYSTACK_ALLOC_MAXIMUM YYSIZE_MAXIMUM
```

# endif

```
# if (defined __cplusplus &&! defined EXIT_SUCCESS \
   &&! ((defined YYMALLOC || defined malloc) \
      && (defined YYFREE || defined free)))
# include <stdlib.h> /* INFRINGES ON USER NAME SPACE */
# ifndef EXIT SUCCESS
# define EXIT_SUCCESS 0
# endif
# endif
# ifndef YYMALLOC
# define YYMALLOC malloc
# if! defined malloc &&! defined EXIT_SUCCESS
void *malloc (YYSIZE_T); /* INFRINGES ON USER NAME SPACE */
# endif
# endif
# ifndef YYFREE
# define YYFREE free
# if! defined free
&&! defined EXIT_SUCCESS
void free (void *); /* INFRINGES ON USER NAME SPACE */
# endif
# endif
# endif
#endif /* ! defined yyoverflow || YYERROR_VERBOSE */
#if (! defined yyoverflow \
  && (! defined __cplusplus \
    \parallel (defined\ YYLTYPE\_IS\_TRIVIAL\ \&\&\ YYLTYPE\_IS\_TRIVIAL\ \setminus
      && defined YYSTYPE_IS_TRIVIAL && YYSTYPE_IS_TRIVIAL)))
/* A type that is properly aligned for any stack member. */
union yyalloc
yytype_int16 yyss_alloc;
YYSTYPE yyvs_alloc;
YYLTYPE yyls_alloc;
};
/* The size of the maximum gap between one aligned stack and the next. */
# define YYSTACK_GAP_MAXIMUM (sizeof (union yyalloc) - 1)
/* The size of an array large to enough to hold all stacks, each with
 N elements. */
# define YYSTACK_BYTES(N) \
  ((N) * (sizeof (yytype_int16) + sizeof (YYSTYPE) + sizeof (YYLTYPE)) \
  + 2 * YYSTACK_GAP_MAXIMUM)
# define YYCOPY_NEEDED 1
```

```
/* Relocate STACK from its old location to the new one. The
 local variables YYSIZE and YYSTACKSIZE
give the old and new number of
 elements in the stack, and YYPTR gives the new location of the
 stack. Advance YYPTR to a properly aligned location for the next
# define YYSTACK_RELOCATE(Stack_alloc, Stack)
                                        \
    YYSIZE_T yynewbytes;
    YYCOPY (&yyptr->Stack_alloc, Stack, yysize);
    Stack = &yyptr->Stack_alloc;
    yynewbytes = yystacksize * sizeof (*Stack) + YYSTACK_GAP_MAXIMUM; \
    yyptr += yynewbytes / sizeof (*yyptr);
 while (0)
#endif
#if defined YYCOPY NEEDED && YYCOPY NEEDED
/* Copy COUNT objects from SRC to DST. The source and destination do
 not overlap.
 */
# ifndef YYCOPY
# if defined __GNUC__ && 1 < __GNUC__
# define YYCOPY(Dst, Src, Count) \
   __builtin_memcpy (Dst, Src, (Count) * sizeof (*(Src)))
# else
# define YYCOPY(Dst, Src, Count)
   do
     YYSIZE_T yyi;
     for (yyi = 0; yyi < (Count); yyi++) \setminus
      (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[] =
{
              5,
                  6, 7, 8,
                             9, 10, 11,
  12, 13, 14, 15, 16, 17, 18, 19,
                                      20,
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  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[] =
{
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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",
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"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,
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10162, 10163, 10164, 10165, 10166, 10170, 10171, 10190, 10200, 10201,

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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) \
/* YYPACT[STATE-NUM] -- Index in YYTABLE of the portion describing
  STATE-NUM. */
static const yytype_int8 yypact[] =
  -15, -87, -73, -65, -106, -59, -58, -57, 97, 17,
  -54, -54, 17, -75, -75, -75, -75, -75, -106, -55,
  -51, -106, -106, -54, -54, -15, -15, -47, -106, -106,
 -106, -106, -75, -49, -44, -106, -6, -6, 17, -106,
 -106, -106, -106, -97, -106, -106, -106, -34, -104, -89,
  -70, -69, -66, 17, -54, -106, -35, -32, -106, -52,
  -41, -29, -97, -106, -82, -31, -25, -34, -106, -75,
 -106, -75, -106, -75, -106, -75, -106, -75, -106, 12,
  -6, -106, -106, -75, -106, -106, -106, -21, -82, -22,
 -106, -75, -106, -106, -16, -30, -20, -11, -10, -9,
  -8, -5, -3, -17, -2, -1, -12, -106, -106, 0,
   2, -106, -106, 4, 5, -106, -75, 6, -106, -106,
 -106, 8, -106, -106, -54, -106, -106, -54, -106, -106,
 -106, -106, -106, -106, -106, -106, -54, -106, -54, -106,
 -106, -75, -106, -106, -75, -75, -106, -106, -106, -106,
  -20, -20, -106, -17, -17, 9, -75, 10, -75, 11,
  13, -56, -106, -106, -106, -106, -54, -106, -106, -106,
 -106, -106, 15, 18, 19, 21, 26, 27, 28, 29,
 -106, -56, -106, -26, -106, -85, -85,
 -85, 22, -75,
 -75, -75, -75, -106, 30, 31, 32, 33, -106, -106,
 -106, -106, 34, 35, 36, 37, 38, 39, 40, 41,
  -85, -53, -85, -85, -106, -106, -106, -106, -106, -106,
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-106, -106, 42, -106, -106, 43, 44, 45, -106, -106,
 -106, -106
};
/* YYDEFACT[STATE-NUM] -- Default reduction number in state STATE-NUM.
  Performed when YYTABLE does not specify something else to do. Zero
  means the default is an error. */
static const yytype_uint8 yydefact[] =
           0,
                0, 15,
                         0,
                             0,
                                  0,
                                      0, 73,
   0,
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           73,
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                       13, 58,
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  42, 101, 45,
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  84, 85,
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                0, 94, 95, 99,
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                                  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,
  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, 193, 169
};
const yytype_int16 yycheck[] =
  14, 15, 16, 37, 60, 25, 62, 11, 25,
  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,
  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,
 -1, -1, -1, 181, 158
};
/* YYSTOS[STATE-NUM] -- The (internal number of the) accessing
 symbol of state STATE-NUM. */
static const yytype_uint8 yystos[] =
     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, 154, 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,
  198, 199, 200, 200, 201, 201, 202, 203, 203, 204,
  204, 205, 205, 206, 206, 206, 207, 207, 208, 209,
  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,
                           2,
                       1,
                               0,
                                    4,
                                        1,
               2,
                       2,
       0,
           0,
                   1,
                           0,
                               4,
                                    1,
                                        0,
   4,
       0,
           0,
               3,
                   3,
                       3,
                           0,
                               1,
                                    1,
                                        1,
           2,
   4,
       0,
               2,
                   0,
                           0,
                       1,
                               0,
                                    0,
                                        0,
       3,
           3,
               3,
   0,
                   0,
                       1,
                           1,
                               3,
                                    0,
                                        4,
   4,
       4,
           4,
               4,
                   4,
                       4,
                           4,
                               4,
                                    4,
                                        1,
       1,
           3,
               0,
   4,
                   4,
                       4,
                            3,
                                5,
                                    0,
                                        2,
       1,
           1,
               1,
                    1,
                        1,
                            1,
                                1,
                                    1,
                                        2,
   0,
      1,
           2,
               4,
                   4,
                       4,
                            4,
                                4,
                                    4,
                                        4,
       0,
           2,
   4,
               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
#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;

YYRHSLOC (Rhs, 0).last\_column;

(Current).first\_column = (Current).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 \le 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))
# define YY_LOCATION_PRINT(File, Loc) ((void) 0)
# endif
#endif
# define YY_SYMBOL_PRINT(Title, Type, Value, Location)
do {
if (yydebug)
 {
  YYFPRINTF (stderr, "%s ", Title);
  yy_symbol_print (stderr,
         Type, Value, Location, lexer, result, arg); \
  YYFPRINTF (stderr, "\n");
  }
} while (0)
| Print this symbol's value on YYOUTPUT. |
'____*/
static void
yy_symbol_value_print (FILE *yyoutput, int yytype, YYSTYPE const * const yyvaluep, YYLTYPE const * const
yylocationp, CfgLexer *lexer, LogExprNode **result, gpointer arg)
FILE *yyo = yyoutput;
YYUSE (yyo);
YYUSE (yylocationp);
YYUSE (lexer);
YYUSE (result);
YYUSE (arg);
if (!yyvaluep)
 return;
# ifdef YYPRINT
```

```
if (yytype < YYNTOKENS)
 YYPRINT (yyoutput, yytoknum[yytype], *yyvaluep);
# endif
YYUSE (yytype);
}
/*-----
Print this symbol on YYOUTPUT. |
'____*/
static void
yy_symbol_print (FILE *yyoutput, int yytype, YYSTYPE const * const yyvaluep, YYLTYPE const * const
yylocationp, CfgLexer *lexer, LogExprNode **result, gpointer arg)
YYFPRINTF (yyoutput, "%s %s (",
      yytype < YYNTOKENS ? "token" : "nterm", yytname[yytype]);</pre>
YY_LOCATION_PRINT (yyoutput, *yylocationp);
YYFPRINTF (yyoutput, ": ");
yy_symbol_value_print (yyoutput, yytype, yyvaluep, yylocationp, lexer, result, arg);
YYFPRINTF (yyoutput, ")");
/*-----
yy_stack_print -- Print the state stack from its BOTTOM up to its |
TOP (included).
static void
yy_stack_print (yytype_int16 *yybottom, yytype_int16 *yytop)
YYFPRINTF (stderr, "Stack now");
for (; yybottom
<= yytop; yybottom++)
  int yybot = *yybottom;
  YYFPRINTF (stderr, " %d", yybot);
 }
YYFPRINTF (stderr, "\n");
# define YY_STACK_PRINT(Bottom, Top)
do {
if (yydebug)
 yy_stack_print ((Bottom), (Top));
} while (0)
```

```
| Report that the YYRULE is going to be reduced. |
'____*/
static void
yy_reduce_print (yytype_int16 *yyssp, YYSTYPE *yyvsp, YYLTYPE *yylsp, int yyrule, CfgLexer *lexer,
LogExprNode **result, gpointer arg)
unsigned long int yylno = yyrline[yyrule];
int yynrhs = yyr2[yyrule];
int yyi;
YYFPRINTF (stderr, "Reducing stack by rule %d (line %lu):\n",
       yyrule - 1, yylno);
/* The symbols being reduced. */
for (yyi = 0; yyi < yynrhs; yyi++)
   YYFPRINTF
(stderr, " \$\%d = ", yyi + 1);
   yy_symbol_print (stderr,
            yystos[yyssp[yyi + 1 - yynrhs]],
            &(yyvsp[(yyi + 1) - (yynrhs)])
            , \&(yylsp[(yyi + 1) - (yynrhs)])
                                                      , lexer, result, arg);
   YYFPRINTF (stderr, "\n");
  }
}
# define YY_REDUCE_PRINT(Rule)
do {
if (yydebug)
 yy_reduce_print (yyssp, yyvsp, yylsp, Rule, lexer, result, arg); \
} while (0)
/* Nonzero means print parse trace. It is left uninitialized so that
 multiple parsers can coexist. */
int yydebug;
#else /* !YYDEBUG */
# define YYDPRINTF(Args)
# define YY_SYMBOL_PRINT(Title, Type, Value, Location)
# define YY_STACK_PRINT(Bottom, Top)
# define YY_REDUCE_PRINT(Rule)
#endif /* !YYDEBUG */
/* YYINITDEPTH -- initial size of the parser's stacks. */
#ifndef YYINITDEPTH
```

# define YYINITDEPTH 200

```
/* YYMAXDEPTH -- maximum size the stacks can grow
to (effective only
 if the built-in stack extension method is used).
 Do not make this value too large; the results are undefined if
 YYSTACK_ALLOC_MAXIMUM < YYSTACK_BYTES (YYMAXDEPTH)
 evaluated with infinite-precision integer arithmetic. */
#ifndef YYMAXDEPTH
# define YYMAXDEPTH 10000
#endif
#if YYERROR_VERBOSE
# ifndef yystrlen
# if defined __GLIBC__ && defined _STRING_H
# define yystrlen strlen
# else
/* Return the length of YYSTR. */
static YYSIZE_T
yystrlen (const char *yystr)
YYSIZE_T yylen;
for (yylen = 0; yystr[yylen]; yylen++)
 continue;
return yylen;
# endif
# endif
# ifndef yystpcpy
# if defined __GLIBC__ && defined _STRING_H && defined _GNU_SOURCE
# define yystpcpy stpcpy
# else
/* Copy YYSRC to YYDEST, returning the address of the terminating '\0' in
 YYDEST. */
static char *
yystpcpy (char *yydest, const char *yysrc)
char *yyd = yydest;
const char *yys = yysrc;
while ((*yyd++ = *yys++) != '\0')
 continue;
```

```
return
yyd - 1;
# endif
# endif
# ifndef yytnamerr
/* Copy to YYRES the contents of YYSTR after stripping away unnecessary
 quotes and backslashes, so that it's suitable for yyerror. The
 heuristic is that double-quoting is unnecessary unless the string
 contains an apostrophe, a comma, or backslash (other than
 backslash-backslash). YYSTR is taken from yytname. If YYRES is
 null, do not copy; instead, return the length of what the result
 would have been. */
static YYSIZE_T
yytnamerr (char *yyres, const char *yystr)
if (*yystr == '''')
   YYSIZE_T yyn = 0;
   char const *yyp = yystr;
   for (;;)
    switch (*++yyp)
     {
     case \":
     case ',':
      goto do_not_strip_quotes;
     case '\\':
      if (*++yyp != '\\')
        goto do_not_strip_quotes;
      /* Fall through. */
     default:
      if (yyres)
        yyres[yyn] = *yyp;
      yyn++;
      break;
 case '"':
      if (yyres)
        yyres[yyn] = '\0';
      return yyn;
  do_not_strip_quotes:;
  }
```

```
if (! yyres)
 return yystrlen (yystr);
return yystpcpy (yyres, yystr) - yyres;
# endif
/* Copy into *YYMSG, which is of size *YYMSG_ALLOC, an error message
 about the unexpected token YYTOKEN for the state stack whose top is
 YYSSP.
 Return 0 if *YYMSG was successfully written. Return 1 if *YYMSG is
 not large enough to hold the message. In that case, also set
 *YYMSG_ALLOC to the required number of bytes. Return 2 if the
 required number of bytes is too large to store. */
static int
yysyntax_error (YYSIZE_T *yymsg_alloc, char **yymsg,
        yytype_int16 *yyssp, int yytoken)
YYSIZE_T yysize0 = yytnamerr (YY_NULLPTR, yytname[yytoken]);
YYSIZE T yysize = yysize0;
enum { YYERROR_VERBOSE_ARGS_MAXIMUM = 5 };
/* Internationalized format string. */
const char *yyformat = YY_NULLPTR;
/* Arguments of yyformat.
char const *yyarg[YYERROR_VERBOSE_ARGS_MAXIMUM];
/* Number of reported tokens (one for the "unexpected", one per
  "expected"). */
int yycount = 0;
/* There are many possibilities here to consider:
  - If this state is a consistent state with a default action, then
```

- If this state is a consistent state with a default action, then the only way this function was invoked is if the default action is an error action. In that case, don't check for expected tokens because there are none.
- The only way there can be no lookahead present (in yychar) is if this state is a consistent state with a default action. Thus, detecting the absence of a lookahead is sufficient to determine that there is no unexpected or expected token to report. In that case, just report a simple "syntax error".
- Don't assume there isn't a lookahead just because this state is a consistent state with a default action. There might have been a previous inconsistent state, consistent state with
- a non-default
  - action, or user semantic action that manipulated yychar.
  - Of course, the expected token list depends on states to have correct lookahead information, and it depends on the parser not

```
to perform extra reductions after fetching a lookahead from the
   scanner and before detecting a syntax error. Thus, state merging
   (from LALR or IELR) and default reductions corrupt the expected
   token list. However, the list is correct for canonical LR with
   one exception: it will still contain any token that will not be
   accepted due to an error action in a later state.
if (yytoken != YYEMPTY)
  int yyn = yypact[*yyssp];
  yyarg[yycount++] = yytname[yytoken];
  if (!yypact_value_is_default (yyn))
     /* Start YYX at -YYN if negative to avoid negative indexes in
       YYCHECK. In other words, skip the first -YYN actions for
       this state because they are default actions. */
     int yyxbegin = yyn < 0? -yyn : 0;
     /* Stay within bounds of both yycheck and yytname. */
     int yychecklim = YYLAST - yyn + 1;
     int yyxend = yychecklim < YYNTOKENS ? yychecklim : YYNTOKENS;
     int yyx;
     for (yyx = yyxbegin; yyx < yyxend; ++yyx)
      if (yycheck[yyx + yyn] == yyx && yyx != YYTERROR
        && !yytable_value_is_error (yytable[yyx + yyn]))
        if (yycount == YYERROR_VERBOSE_ARGS_MAXIMUM)
         {
          yycount = 1;
          yysize = yysize0;
          break;
        yyarg[yycount++] = yytname[yyx];
         YYSIZE_T yysize1 = yysize + yytnamerr (YY_NULLPTR, yytname[yyx]);
         if (! (yysize <= yysize1
              && yysize1 <= YYSTACK_ALLOC_MAXIMUM))
          return 2;
         yysize = yysize1;
    }
 }
switch (yycount)
 {
# define YYCASE_(N, S)
```

case N:

```
yyformat = S;
  break
  YYCASE_(0, YY_("syntax error"));
  YYCASE_(1, YY_("syntax error, unexpected %s"));
  YYCASE_(2, YY_("syntax error, unexpected %s, expecting %s"));
  YYCASE_(3, YY_("syntax error, unexpected %s, expecting %s or %s"));
  YYCASE_(4, YY_("syntax error, unexpected %s, expecting %s or %s or %s"));
  YYCASE_(5, YY_("syntax error, unexpected %s, expecting %s or %s or %s or %s"));
# undef YYCASE_
 }
 YYSIZE_T yysize1 = yysize + yystrlen (yyformat);
 if (! (yysize <= yysize1 && yysize1 <= YYSTACK_ALLOC_MAXIMUM))
  return 2;
 yysize = yysize1;
if (*yymsg_alloc < yysize)</pre>
  *yymsg_alloc = 2 * yysize;
  if (! (yysize <= *yymsg_alloc
      && *yymsg_alloc <= YYSTACK_ALLOC_MAXIMUM))
   *yymsg_alloc = YYSTACK_ALLOC_MAXIMUM;
  return
1;
 }
/* Avoid sprintf, as that infringes on the user's name space.
  Don't have undefined behavior even if the translation
  produced a string with the wrong number of "%s"s. */
 char *yyp = *yymsg;
 int yyi = 0;
 while ((*yyp = *yyformat) != \0')
  if (*yyp == '%' && yyformat[1] == 's' && yyi < yycount)
   {
    yyp += yytnamerr (yyp, yyarg[yyi++]);
    yyformat += 2;
   }
  else
    yyp++;
    yyformat++;
    }
return 0;
```

```
#endif /* YYERROR_VERBOSE */
| Release the memory associated to this symbol. |
'_____*/
static void
yydestruct (const char *yymsg, int yytype, YYSTYPE *yyvaluep, YYLTYPE *yylocationp, CfgLexer *lexer,
LogExprNode **result, gpointer arg)
YYUSE (yyvaluep);
YYUSE (yylocationp);
YYUSE (lexer);
YYUSE (result);
YYUSE (arg);
if (!yymsg)
 yymsg = "Deleting";
YY SYMBOL PRINT
(yymsg, yytype, yyvaluep, yylocationp);
YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
YYUSE (yytype);
YY_IGNORE_MAYBE_UNINITIALIZED_END
/*----.
yyparse.
'----*/
yyparse (CfgLexer *lexer, LogExprNode **result, gpointer arg)
/* The lookahead symbol. */
int yychar;
/* The semantic value of the lookahead symbol. */
/* Default value used for initialization, for pacifying older GCCs
 or non-GCC compilers. */
YY_INITIAL_VALUE (static YYSTYPE yyval_default;)
YYSTYPE yylval YY_INITIAL_VALUE (= yyval_default);
/* Location data for the lookahead symbol. */
static YYLTYPE yyloc_default
# if defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL
```

```
= \{ 1, 1, 1, 1 \}
# endif
YYLTYPE yylloc = yyloc_default;
 /* Number of syntax errors so far. */
 int yynerrs;
 int yystate;
 /* Number of tokens to shift before error messages enabled. */
 int yyerrstatus;
 /* The stacks and their tools:
   'yyss': related to states.
   'yyvs': related to
semantic values.
   'yyls': related to locations.
   Refer to the stacks through separate pointers, to allow yyoverflow
   to reallocate them elsewhere. */
 /* The state stack. */
 yytype_int16 yyssa[YYINITDEPTH];
 yytype_int16 *yyss;
 yytype_int16 *yyssp;
 /* The semantic value stack. */
 YYSTYPE yyvsa[YYINITDEPTH];
 YYSTYPE *yyvs;
 YYSTYPE *yyvsp;
 /* The location stack. */
 YYLTYPE yylsa[YYINITDEPTH];
 YYLTYPE *yyls;
 YYLTYPE *yylsp;
 /* The locations where the error started and ended. */
 YYLTYPE yyerror_range[3];
 YYSIZE_T yystacksize;
int yyn;
int yyresult;
/* Lookahead token as an internal (translated) token number. */
int yytoken = 0;
/* The variables used to return semantic value and location from the
  action routines. */
YYSTYPE yyval;
```

```
#if YYERROR_VERBOSE
/* Buffer for error messages, and its allocated size. */
char yymsgbuf[128];
char *yymsg = yymsgbuf;
YYSIZE T
yymsg_alloc = sizeof yymsgbuf;
#endif
#define YYPOPSTACK(N) (yyvsp -= (N), yyssp -= (N), yylsp -= (N))
/* The number of symbols on the RHS of the reduced rule.
  Keep to zero when no symbol should be popped. */
int yylen = 0;
yyssp = yyss = yyssa;
yyvsp = yyvs = yyvsa;
yylsp = yyls = yylsa;
yystacksize = YYINITDEPTH;
YYDPRINTF ((stderr, "Starting parse\n"));
yystate = 0;
yyerrstatus = 0;
yynerrs = 0;
yychar = YYEMPTY; /* Cause a token to be read. */
yylsp[0] = yylloc;
goto yysetstate;
/*-----
yynewstate -- Push a new state, which is found in yystate.
yynewstate:
/* In all cases, when you get here, the value and location stacks
  have just been pushed. So pushing a state here evens the stacks. */
yyssp++;
yysetstate:
*yyssp = yystate;
if (yyss + yystacksize - 1 <= yyssp)
  /* Get the current used size
of the three stacks, in elements. */
  YYSIZE_T yysize = yyssp - yyss + 1;
```

YYLTYPE yyloc;

#ifdef yyoverflow

```
/* Give user a chance to reallocate the stack. Use copies of
     these so that the &'s don't force the real ones into
     memory. */
    YYSTYPE *yyvs1 = yyvs;
   yytype_int16 *yyss1 = yyss;
   YYLTYPE *yyls1 = yyls;
   /* Each stack pointer address is followed by the size of the
     data in use in that stack, in bytes. This used to be a
     conditional around just the two extra args, but that might
     be undefined if yyoverflow is a macro. */
   yyoverflow (YY_("memory exhausted"),
           &yyss1, yysize * sizeof (*yyssp),
           &yyvs1, yysize * sizeof (*yyvsp),
           &yyls1, yysize * sizeof (*yylsp),
           &yystacksize);
   yyls = yyls1;
   yyss = yyss1;
   yyvs = yyvs1;
#else /* no yyoverflow */
# ifndef YYSTACK RELOCATE
 goto yyexhaustedlab;
# else
  /* Extend the stack our own way. */
  if (YYMAXDEPTH <= yystacksize)
   goto yyexhaustedlab;
  yystacksize *= 2;
  if (YYMAXDEPTH < yystacksize)
   yystacksize = YYMAXDEPTH;
   yytype_int16 *yyss1 = yyss;
   union yyalloc *yyptr =
     (union yyalloc *) YYSTACK_ALLOC (YYSTACK_BYTES (yystacksize));
   if (! yyptr)
     goto yyexhaustedlab;
    YYSTACK_RELOCATE (yyss_alloc, yyss);
    YYSTACK_RELOCATE (yyvs_alloc, yyvs);
    YYSTACK_RELOCATE (yyls_alloc, yyls);
# undef YYSTACK_RELOCATE
   if (yyss1 != yyssa)
     YYSTACK_FREE (yyss1);
  }
# endif
```

```
#endif /* no yyoverflow */
   yyssp = yyss + yysize - 1;
   yyvsp = yyvs + yysize - 1;
   yylsp = yyls + yysize - 1;
   YYDPRINTF ((stderr, "Stack size increased to %lu\n",
          (unsigned long int) yystacksize));
   if (yyss + yystacksize - 1 <= yyssp)
    YYABORT;
  }
YYDPRINTF ((stderr,
"Entering state %d\n", yystate));
if (yystate == YYFINAL)
 YYACCEPT;
goto yybackup;
/*----.
yybackup.
'----*/
yybackup:
/* Do appropriate processing given the current state. Read a
  lookahead token if we need one and don't already have one. */
/* First try to decide what to do without reference to lookahead token. */
yyn = yypact[yystate];
if (yypact_value_is_default (yyn))
 goto yydefault;
/* Not known => get a lookahead token if don't already have one. */
/* YYCHAR is either YYEMPTY or YYEOF or a valid lookahead symbol. */
if (yychar == YYEMPTY)
   YYDPRINTF ((stderr, "Reading a token: "));
  yychar = yylex (&yylval, &yylloc, lexer);
if (yychar <= YYEOF)
   yychar = yytoken = YYEOF;
   YYDPRINTF ((stderr, "Now at end of input.\n"));
  }
```

```
else
 {
  yytoken = YYTRANSLATE (yychar);
   YY_SYMBOL_PRINT ("Next token is", yytoken, &yylval, &yylloc);
  }
/* If the proper action on seeing
token YYTOKEN is to reduce or to
  detect an error, take that action. */
yyn += yytoken;
if (yyn < 0 \parallel YYLAST < yyn \parallel yycheck[yyn] != yytoken)
 goto yydefault;
yyn = yytable[yyn];
if (yyn \le 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 ==
 goto yyerrlab;
```

```
/*----·
| yyreduce -- Do a reduction. |
'____*/
yyreduce:
/* yyn is the number of a rule to reduce with. */
yylen = yyr2[yyn];
/* If YYLEN is nonzero, implement the default value of the action:
  '$$ = $1'.
  Otherwise, the following line sets YYVAL to garbage.
  This behavior is undocumented and Bison
  users should not rely upon it. Assigning to YYVAL
  unconditionally makes the parser a bit smaller, and it avoids a
  GCC warning that YYVAL may be used uninitialized. */
yyval = yyvsp[1-yylen];
/* Default location. */
YYLLOC_DEFAULT (yyloc, (yylsp - yylen), yylen);
YY_REDUCE_PRINT (yyn);
switch (yyn)
 {
    case 2:
#line 387 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { *result = log_expr_node_append_tail((yyvsp[-1].ptr), (yyvsp[0].ptr)); if (yychar != YYEMPTY) {
cfg_lexer_unput_token(lexer, &yylval); } YYACCEPT; }
#line 2942 "lib/rewrite/rewrite-expr-grammar.c"
/* yacc.c:1646 */
 break;
case 3:
#line 391 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])),
(yyvsp[0].ptr)); }
#line 2948 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 4:
#line 392 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); }
#line 2954 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 5:
#line 393 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
```

goto yyreduce;

```
{ (yyval.ptr) = NULL; }
#line 2960 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 6:
#line 398 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
   GError *error = NULL;
   (yyval.ptr) = log_template_new(configuration, (yyvsp[0].cptr));
   CHECK_ERROR_GERROR(log_template_compile((yyval.ptr), (yyvsp[0].cptr),
&error), (yylsp[0]), error, "error compiling replacement");
    free((yyvsp[0].cptr));
#line 2972 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 7:
#line 409 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 {
      last_rewrite = log_rewrite_subst_new((yyvsp[0].ptr), configuration);
      log_template_unref((yyvsp[0].ptr));
#line 2981 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 8:
#line 414 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 {
      GError *error = NULL;
      CHECK_ERROR_GERROR(log_rewrite_subst_compile_pattern(last_rewrite, (yyvsp[-4].cptr), &error),
(yylsp[-4]), error, "error compiling search pattern");
      free((yyvsp[-4].cptr));
      (yyval.ptr) = last_rewrite;
#line 2992 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 9:
#line 421 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646
 */
 {
      last_rewrite = log_rewrite_set_new((yyvsp[0].ptr), configuration);
      log_template_unref((yyvsp[0].ptr));
#line 3001 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
```

```
case 10:
#line 425 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = last_rewrite; }
#line 3007 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 11:
#line 426 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_rewrite_set_tag_new((yyvsp[-1].cptr), TRUE, configuration); free((yyvsp[-1].cptr)); }
#line 3013 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 12:
#line 427 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_rewrite_set_tag_new((yyvsp[-1].cptr), FALSE, configuration); free((yyvsp[-1].cptr)); }
#line 3019 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 13:
#line 429 "lib/rewrite/rewrite-expr-grammar.y"
/* yacc.c:1646 */
 {
      last_rewrite = log_rewrite_groupset_new((yyvsp[0].ptr), configuration);
      log_template_unref((yyvsp[0].ptr));
      }
#line 3028 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 14:
#line 433 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = last_rewrite; }
#line 3034 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 15:
#line 436 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 {
      Plugin *p;
      gint context = LL_CONTEXT_REWRITE;
      p = plugin_find(configuration, context, (yyvsp[0].cptr));
      CHECK_ERROR(p, (yylsp[0]), "%s plugin %s not found",
cfg_lexer_lookup_context_name_by_type(context), (yyvsp[0].cptr));
      last_rewrite = (LogRewrite *) plugin_parse_config(p, configuration, &(yylsp[0]), NULL);
      free((yyvsp[0].cptr));
      if (!last_rewrite)
       {
```

```
YYERROR;
        }
      (yyval.ptr) = last_rewrite;
#line 3054 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 18:
#line 460 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  {
      log_rewrite_groupset_add_fields(last_rewrite, (yyvsp[-1].ptr));
#line 3062 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 22:
#line 472 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last matcher options = log rewrite subst get matcher options(last rewrite); }
#line 3068 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 27:
#line 483 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
      const gchar *p = (yyvsp[-1].cptr);
      if (p[0] == '\$')
         msg_warning("Value references in rewrite rules should not use the '$' prefix, those are only needed in
templates",
                evt_tag_str("value",
(yyvsp[-1].cptr)),
                NULL);
        p++;
       }
      last_rewrite->value_handle = log_msg_get_value_handle(p);
      CHECK_ERROR(!log_msg_is_handle_macro(last_rewrite->value_handle), (yylsp[-1]), "%s is read-only, it
cannot be changed in rewrite rules", p);
   CHECK_ERROR(log_msg_is_value_name_valid(p), (yylsp[-1]), "%s is not a valid name for a name-value pair,
perhaps a misspelled .SDATA reference?", p);
      free((yyvsp[-1].cptr));
#line 3087 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 29:
#line 502 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 {
      FilterExprNode *filter_expr;
```

```
CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&filter_expr_parser, lexer, (gpointer *)
&filter_expr, NULL), (yylsp[-1]));
      log_rewrite_set_condition(last_rewrite, filter_expr);
#line 3098 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646
 */
 break;
case 31:
#line 514 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { cfg_lexer_push_context(lexer, LL_CONTEXT_SOURCE, NULL, "source"); }
#line 3104 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 32:
#line 516 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { cfg lexer pop context(lexer); }
#line 3110 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 33:
#line 517 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
      (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc));
#line 3118 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 34:
#line 523 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])),
(yyvsp[0].ptr)); }
#line 3124 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 35:
#line 524
"lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); }
#line 3130 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 36:
#line 525 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = NULL; }
#line 3136 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
```

```
case 37:
#line 529 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = (yyvsp[0].ptr); }
#line 3142 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 38:
#line 530 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = (yyvsp[0].ptr); }
#line 3148 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 39:
#line 535 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  {
      Plugin *p;
      gint context = LL_CONTEXT_SOURCE;
      p = plugin_find(configuration, context, (yyvsp[0].cptr));
       CHECK_ERROR(p, (yylsp[0]), "%s plugin %s not found",
cfg_lexer_lookup_context_name_by_type(context), (yyvsp[0].cptr));
      last_driver = (LogDriver *) plugin_parse_config(p, configuration, &(yylsp[0]), NULL);
      free((yyvsp[0].cptr));
      if (!last_driver)
         YYERROR;
      (yyval.ptr) = last_driver;
#line 3168 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 40:
#line 553 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.ptr) = (yyvsp[-1].ptr); }
#line 3174 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
#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 */
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:
#line 605 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
```

```
{ cfg_lexer_push_context(lexer, LL_CONTEXT_DESTINATION, NULL, "destination"); }
#line 3229 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 50:
#line 607 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { cfg lexer pop context(lexer); }
#line 3235 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 51:
#line 608 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  {
    (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc));
#line 3243 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 52:
#line 616 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])),
(yyvsp[0].ptr)); }
#line 3249 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 53:
#line 617 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); }
#line 3255 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 54:
#line 618 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = NULL; }
#line 3261 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 55:
#line 622 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.ptr) = (yyvsp[0].ptr); }
#line 3267 "lib/rewrite/rewrite-expr-grammar.c"
/* yacc.c:1646 */
 break;
case 56:
#line 627 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  {
```

```
Plugin *p;
      gint context = LL_CONTEXT_DESTINATION;
      p = plugin_find(configuration, context, (yyvsp[0].cptr));
      CHECK_ERROR(p, (yylsp[0]), "%s plugin %s not found",
cfg_lexer_lookup_context_name_by_type(context), (yyvsp[0].cptr));
      last_driver = (LogDriver *) plugin_parse_config(p, configuration, &(yylsp[0]), NULL);
      free((yyvsp[0].cptr));
      if (!last driver)
       {
         YYERROR;
      (yyval.ptr) = last_driver;
#line 3287 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 57:
#line 645 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); (yyval.ptr) = (yyvsp[-2].ptr); }
#line 3293 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646
 */
 break;
case 58:
#line 646 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.ptr) = NULL; }
#line 3299 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 59:
#line 650 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.ptr) = log_expr_node_new_source_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3305 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 60:
#line 651 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_new_source(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3311 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 61:
#line 652 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_new_filter_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3317 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
```

```
case 62:
#line 653
"lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_new_filter(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3323 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 63:
#line 654 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_new_parser_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3329 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 64:
#line 655 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_new_parser(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3335 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 65:
#line 656 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_new_rewrite_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3341 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 66:
#line
657 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_new_rewrite(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3347 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 67:
#line 658 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_new_destination_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3353 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 68:
#line 659 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_new_destination(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3359 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 69:
#line 660 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = (yyvsp[0].ptr); }
```

```
#line 3365 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 70:
#line 664 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646
  { (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc)); }
#line 3371 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 71:
#line 676 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = (yyvsp[0].ptr) ? log_expr_node_new_junction((yyvsp[0].ptr), &(yylsp[0])): NULL; }
#line 3377 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 72:
#line 681 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  \{\ log\_expr\_node\_append\_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); (yyval.ptr) = (yyvsp[-2].ptr); \ \}
#line 3383 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 73:
#line 682 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.ptr) = NULL; }
#line 3389 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 74:
#line 686 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.ptr) = (yyvsp[-1].ptr); }
#line 3395 "lib/rewrite/rewrite-expr-grammar.c"
/* yacc.c:1646 */
 break:
case 75:
#line 687 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = (yyvsp[-1].ptr); }
#line 3401 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 76:
#line 691 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.ptr) = log_expr_node_new_log(log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[-1].ptr)),
(yyvsp[0].num), &(yyloc)); }
#line 3407 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
```

```
case 77:
#line 695 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.num) = (yyvsp[-2].num); }
#line 3413 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 78:
#line 696 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.num) = 0; }
#line 3419 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 79:
#line 700 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
(yyval.num) = log\_expr\_node\_lookup\_flag((yyvsp[-1].cptr)) \mid (yyvsp[0].num); free((yyvsp[-1].cptr)); \}
#line 3425 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 80:
#line 701 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.num) = 0; }
#line 3431 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 83:
#line 737 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.num) = 1; }
#line 3437 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 84:
#line 738 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.num) = 0; }
#line 3443 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 85:
#line 739 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.num) = (yyvsp[0].num); }
#line 3449 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
#line 743 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  {
(yyval.num) = (yyvsp[0].num); }
#line 3455 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
```

```
break;
case 87:
#line 744 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.num) = 2; }
#line 3461 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 88:
#line 754 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = g_list_reverse((yyvsp[0].ptr)); }
#line 3467 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 89:
#line 758 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = g_list_append((yyvsp[0].ptr), g_strdup((yyvsp[-1].cptr))); free((yyvsp[-1].cptr)); }
#line 3473 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 90:
#line 759 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = NULL; }
#line 3479 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 93:
#line 810 "lib/rewrite/rewrite-expr-grammar.y"
/* yacc.c:1646 */
  { last_source_options->init_window_size = (yyvsp[-1].num); }
#line 3485 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 94:
#line 811 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last_source_options->chain_hostnames = (yyvsp[-1].num); }
#line 3491 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 95:
#line 812 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last_source_options->keep_hostname = (yyvsp[-1].num); }
#line 3497 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 96:
#line 813 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last_source_options->program_override = g_strdup((yyvsp[-1].cptr)); free((yyvsp[-1].cptr)); }
```

```
#line 3503 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 97:
#line 814 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last_source_options->host_override = g_strdup((yyvsp[-1].cptr));
free((yyvsp[-1].cptr)); }
#line 3509 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
case 98:
#line 815 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { gchar *p = strrchr((yyvsp[-1].cptr), ':'); if (p) *p = 0; last_source_options->program_override =
g_strdup((yyvsp[-1].cptr)); free((yyvsp[-1].cptr)); }
#line 3515 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 99:
#line 816 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last_source_options->keep_timestamp = (yyvsp[-1].num); }
#line 3521 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 100:
#line 817 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { log_source_options_set_tags(last_source_options, (yyvsp[-1].ptr)); }
#line 3527 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 101:
#line 818 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last_host_resolve_options = &last_source_options->host_resolve_options;
#line 3533 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 103:
#line 831 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last_host_resolve_options->use_fqdn = (yyvsp[-1].num); }
#line 3539 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
case 104:
#line 832 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last_host_resolve_options->use_dns = (yyvsp[-1].num); }
#line 3545 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;
```

```
case 105:
#line 833 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { last_host_resolve_options->use_dns_cache = (yyvsp[-1].num); }
#line 3551 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 106:
#line 834 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { last_host_resolve_options->normalize_hostnames = (yyvsp[-1].num); }
#line 3557 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  break;
case 107:
#line 978 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { CHECK_ERROR(log_matcher_options_set_type(last_matcher_options, (yyvsp[-1].cptr)), (yylsp[-1]),
"unknown matcher type"); free((yyvsp[-1].cptr)); }
#line 3563 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
case 109:
#line 983 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { CHECK_ERROR(log_matcher_options_process_flag(last_matcher_options, (yyvsp[-1].cptr)), (yylsp[-1]),
"unknown matcher flag"); free((yyvsp[-1].cptr)); }
#line 3569 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break:
#line 3573 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  default: break;
/* User semantic actions sometimes alter yychar, and that requires
  that yytoken be updated with the new translation. We take the
  approach of translating immediately before every use of yytoken.
  One alternative is translating here after every semantic
action.
  but that translation would be missed if the semantic action invokes
  YYABORT, YYACCEPT, or YYERROR immediately after altering yychar or
  if it invokes YYBACKUP. In the case of YYABORT or YYACCEPT, an
  incorrect destructor might then be invoked immediately. In the
  case of YYERROR or YYBACKUP, subsequent parser actions might lead
  to an incorrect destructor call or verbose syntax error message
  before the lookahead is translated. */
YY_SYMBOL_PRINT ("-> $$ =", yyr1[yyn], &yyval, &yyloc);
YYPOPSTACK (yylen);
yylen = 0;
YY_STACK_PRINT (yyss, yyssp);
```

```
*++yyvsp = yyval;
*++yylsp = yyloc;
/* Now 'shift' the result of the reduction. Determine what state
  that goes to, based on the state we popped back to and the rule
  number reduced by. */
yyn = yyr1[yyn];
yystate = yypgoto[yyn - YYNTOKENS] + *yyssp;
if (0 <= yystate && yystate <= YYLAST && yycheck[yystate] == *yyssp)
 yystate = yytable[yystate];
else
 yystate =
yydefgoto[yyn - YYNTOKENS];
goto yynewstate;
| yyerrlab -- here on detecting error. |
'----*/
yyerrlab:
/* Make sure we have latest lookahead translation. See comments at
  user semantic actions for why this is necessary. */
yytoken = yychar == YYEMPTY ? YYEMPTY : YYTRANSLATE (yychar);
/* If not already recovering from an error, report this error. */
if (!yyerrstatus)
  ++yynerrs;
#if! YYERROR_VERBOSE
  yyerror (&yylloc, lexer, result, arg, YY_("syntax error"));
#else
# define YYSYNTAX_ERROR yysyntax_error (&yymsg_alloc, &yymsg, \
                      yyssp, yytoken)
   char const *yymsgp = YY_("syntax error");
   int yysyntax_error_status;
   yysyntax_error_status = YYSYNTAX_ERROR;
   if (yysyntax_error_status == 0)
     yymsgp = yymsg;
    else if (yysyntax_error_status == 1)
     {
      if (yymsg != yymsgbuf)
        YYSTACK_FREE (yymsg);
      yymsg = (char *) YYSTACK_ALLOC (yymsg_alloc);
      if (!yymsg)
```

```
yymsg = yymsgbuf;
         yymsg_alloc = sizeof yymsgbuf;
         yysyntax_error_status = 2;
       }
      else
       {
         yysyntax_error_status = YYSYNTAX_ERROR;
         yymsgp = yymsg;
       }
    yyerror (&yylloc, lexer, result, arg, yymsgp);
    if (yysyntax_error_status == 2)
     goto yyexhaustedlab;
# undef YYSYNTAX_ERROR
#endif
  }
yyerror_range[1] = yylloc;
if (yyerrstatus == 3)
   /* If just tried and failed to reuse lookahead token after an
    error, discard it. */
   if (yychar <= YYEOF)
     /* Return failure if at end of input. */
     if (yychar == YYEOF)
      YYABORT;
    }
   else
     yydestruct ("Error: discarding",
            yytoken,
&yylval, &yylloc, lexer, result, arg);
     yychar = YYEMPTY;
    }
  }
/* Else will try to reuse lookahead token after shifting the error
  token. */
goto yyerrlab1;
| yyerrorlab -- error raised explicitly by YYERROR. |
```

```
yyerrorlab:
/* Pacify compilers like GCC when the user code never invokes
  YYERROR and the label yyerrorlab therefore never appears in user
  code. */
if (/*CONSTCOND*/0)
  goto yyerrorlab;
yyerror_range[1] = yylsp[1-yylen];
/* Do not reclaim the symbols of the rule whose action triggered
  this YYERROR. */
YYPOPSTACK (yylen);
yylen = 0;
YY_STACK_PRINT (yyss, yyssp);
yystate = *yyssp;
goto yyerrlab1;
/*-----
| yyerrlab1 -- common code for both syntax error and YYERROR. |
'-----*/
yyerrlab1:
yyerrstatus = 3; /* Each real token shifted decrements this. */
for (;;)
  yyn = yypact[yystate];
  if (!yypact_value_is_default (yyn))
    yyn += YYTERROR;
    if (0 <= yyn && yyn <= YYLAST && yycheck[yyn] == YYTERROR)
      yyn = yytable[yyn];
      if (0 < yyn)
       break;
      }
    }
  /* Pop the current state because it cannot handle the error token. */
  if (yyssp == yyss)
   YYABORT:
  yyerror_range[1] = *yylsp;
  yydestruct ("Error: popping",
         yystos[yystate], yyvsp, yylsp, lexer, result, arg);
  YYPOPSTACK (1);
  yystate = *yyssp;
```

```
YY_STACK_PRINT (yyss, yyssp);
 }
YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
*++yyvsp = yylval;
YY_IGNORE_MAYBE_UNINITIALIZED_END
yyerror_range[2] = yylloc;
/* Using YYLLOC is tempting, but would change the location of
  the lookahead. YYLOC is available though. */
YYLLOC_DEFAULT
(yyloc, yyerror_range, 2);
*++yylsp = yyloc;
/* Shift the error token. */
YY_SYMBOL_PRINT ("Shifting", yystos[yyn], yyvsp, yylsp);
yystate = yyn;
goto yynewstate;
/*-----
| yyacceptlab -- YYACCEPT comes here. |
'____*/
yyacceptlab:
yyresult = 0;
goto yyreturn;
/*-----
| yyabortlab -- YYABORT comes here. |
'____*/
yyabortlab:
yyresult = 1;
goto yyreturn;
#if !defined yyoverflow || YYERROR_VERBOSE
/*_____
| yyexhaustedlab -- memory exhaustion comes here. |
'____*/
yyexhaustedlab:
yyerror (&yylloc, lexer, result, arg, YY_("memory exhausted"));
yyresult = 2;
/* Fall through. */
#endif
yyreturn:
if (yychar != YYEMPTY)
 {
```

```
/* Make sure we have latest lookahead translation. See comments at
    user semantic actions for why
this is necessary. */
   yytoken = YYTRANSLATE (yychar);
   yydestruct ("Cleanup: discarding lookahead",
          yytoken, &yylval, &yylloc, lexer, result, arg);
  }
/* Do not reclaim the symbols of the rule whose action triggered
  this YYABORT or YYACCEPT. */
YYPOPSTACK (yylen);
YY_STACK_PRINT (yyss, yyssp);
while (yyssp != yyss)
 {
  yydestruct ("Cleanup: popping",
          yystos[*yyssp], yyvsp, yylsp, lexer, result, arg);
   YYPOPSTACK (1);
#ifndef yyoverflow
if (yyss != yyssa)
 YYSTACK_FREE (yyss);
#endif
#if YYERROR_VERBOSE
if (yymsg != yymsgbuf)
 YYSTACK_FREE (yymsg);
#endif
return yyresult;
#line 1048 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1906 */
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General Public License as described in the file GPL.txt
FAO:
____
The questions and answers below try to summarize the intentions behind this
```

licensing scheme.

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

licenses?

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

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

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

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

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

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

A: No, everyone including BalaBit.

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## 1.71 pcre 8.44

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### THE BASIC LIBRARY FUNCTIONS

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Written by: Zoltan Herczeg Email local part: hzmester Email domain: freemail.hu

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### 1.72 lxc 2.0.11

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