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1.2 apache2 2.4.23

1.2.1 Available under license :

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X
This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>

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<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet" type="text/css" href="./style/css/prettify.css" />
<script src="./style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="./images/favicon.ico" rel="shortcut icon" /></head>
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```

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For the server\util_md5.c component:

```
/**********************************************************************
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
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For the srclib\apr-util\xml\expat\conftools\install-sh component:

```
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# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
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```

For the test\zb.c component:

```
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     ===============

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

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
 Michael Campanella (campanella@stevms.enet.dec.com)

*/
```

For the expat xml parser component:

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==========

1.3 appdirs 1.4.0

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1.4 apr 1.5.2

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From strings/apr_strnatcmp.c, include/apr_strings.h:

 strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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1.5 apr-util 1.5.4

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1.9 bear 0.8.2

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1.10 bind 9.10.4-P3

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

==
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.11 binutils 2.25.1

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a

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

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

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

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

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

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

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

4. You may copy and distribute the Library (or a portion or

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

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

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

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure

layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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

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

4. Combined Works.

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

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

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

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

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

e) Provide Installation Information, but only if you would otherwise

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

5. Combined Libraries.

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

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

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

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

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

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

Keith Knowles at the Open Software Foundation wrote the original MIPS

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

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

@appendixsubsec Preamble

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

 This license, the Lesser General Public License, applies to some
specially designated software---typically libraries---of the Free

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use

this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex

@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

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

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

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

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

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@item
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@enumerate a
@item
The modified work must itself be a software library.

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

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

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

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

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

it.

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

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

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

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

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

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

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

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

therefore falls outside the scope of this License.

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

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

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

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

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

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

@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

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

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

@item
Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

@item
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specified materials from the same place.

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

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Library'' must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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which the executable runs, unless that component itself accompanies the
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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

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

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

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

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

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

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
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1.12 bmon 3.2

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```
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*/
```

1.13 boost 1.55.0

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1.14 boost 1.57.0

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

```
/*
  minibz2
    libbz2.dll test program.
    by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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  usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/
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1.16 c-ares 1.12.0

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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.20 cracklib 2.9.6

1.20.1 Available under license :

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small

> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,

GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
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> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that

> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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^L
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less

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^L

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^L
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^L
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^L
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That's all there is to it!

1.21 curl 7.51.0

1.21.1 Available under license :

License Mixing
==========

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

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

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html)
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particular problem was addressed when the [Modified BSD
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Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is
very liberal.

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announcement clause that makes it "incompatible" with GPL. You are not
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MIT Kerberos

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Heimdal

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1.22 cyrus-sasl 2.1.26

1.22.1 Available under license :

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* Tim Martin
* Rob Earhart
* Rob Siemborski
*/
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```
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Theodore Ts'o
23-June-2007

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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
-
-   Copyright (C) Andrew Tridgell              2005
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+   Copyright (C) Jeremy Allison               2000-2006
+   Copyright (C) Paul `Rusty' Russell         2000

    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released
#
# 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))
 $(MV) pic/$(BSD_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)
```

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Gadi Oxman, August 1995

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

```
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```

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1.38 fail2ban 0.8.14

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1.40 findutils 4.6.0

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1.41 folsom 0.8.2

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

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1.45 gcc 4.9.2

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
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Version 3, 29 June 2007

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

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

Although the Lesser General Public License is Less protective of the

users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

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

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

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

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Ty Coon, President of Vice

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OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the

code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@appendixsubsec Preamble

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

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

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

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

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

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

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

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

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

Library will still fall under Section 6.)

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the

original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

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

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version,

but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that

everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

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

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

  This library is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
  Library General Public License for more details.

  You should have received a copy of the GNU Library General Public
  License along with this library; if not, write to the Free
  Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
  MA 02110-1301, USA

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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

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

That's all there is to it!
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                Version 3, 29 June 2007

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This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

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

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

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

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the

function or data, the facility still operates, and performs
whatever part of its purpose remains meaningful, or

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

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

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

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

4. Combined Works.

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

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

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

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of

the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

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

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

5. Combined Libraries.

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

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

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

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version

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Version 2, June 1991

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

Preamble

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

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

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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

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

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

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

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

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

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

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

However, unrestricted linking of non-free programs would deprive the

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

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from

such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in

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

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the

Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

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

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

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

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

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

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

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

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

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

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

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

@item
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@item
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@item
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@enumerate a
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@end enumerate

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

@page
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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@enumerate 0
@item
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A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is

included without limitation in the term ``modification".)

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

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

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@item
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@enumerate a
@item
The modified work must itself be a software library.

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

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

@item

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

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

These requirements apply to the modified work as a whole. If
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that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
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distribute.

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You may place library facilities that are a work based on the
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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

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

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

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

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

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@end smallexample

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

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

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

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

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1. Source Code.

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

A "Standard Interface" means an interface that either is an official

standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified

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

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1.48 glib 2.48.2

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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1.49 glibc 2.24

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1.51 glibc/gplv3-portions 2.21

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#!/bin/sh
Like mv $1 $2, but if the files are the same, just delete $1.
Status is zero if successful, nonzero otherwise.

VERSION='2012-01-06 07:23'; # UTC

The definition above must lie within the first 8 lines in order
for the Emacs time-stamp write hook (at end) to update it.
If you change this file with Emacs, please let the write hook
do its job. Otherwise, update this string manually.

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1.52 graphviz 1.3.0

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*
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1.60 ifupdown 0.7.52

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1.62 ipaddr-py 2.1.11

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1.63 ipmitool 1.8.17

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1.64 ipmiutil 2.9.5

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1.69 it8712 1.0

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1.70 Javascript base64 1.0

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1.71 jqplot 1.0.4

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1.75 jquery-hashchange 1.3

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1.77 jquery-scrollintoview 1.8

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1.78 kernel 4.7.5

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for the nxt2004 frontend driver

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single nxt200x frontend driver.

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
```

```
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*    as needed. This means that data must always be copied to create
*    the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*    Fix is simple: make large buffers large enough to hold entire
*    SDU, and leave <small_buffer_data> bytes empty at the start. Then
*    copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
*          combined, allow nicstar_free_rx_skb to be called to
*          recycle large data buffers
*      2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*    details.
*
*
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* along with this program; if not, write to the Free Software
* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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*/
```

1.83 lcdproc 0.5.7

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1.84 less 481

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1.85 libconfuse 2_7

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1.92 libidn 1.33

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less

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

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

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

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

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1.93 libmnl 1.0.4

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

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1.97 libpcap 1.7.4

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1.98 libstatsd-cpp 0.0

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1.99 libusb 1.0.20

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1.100 libxml2 2.9.4

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1.101 libxslt 1.1.29

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1.102 Lm_sensors 3.1.2 :(2010-02-02)

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1.105 log4shib 1.0.8 :2013-05-08 Scott Cantor

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1.117 net-tools 1.60

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1.119 nss_ldap 265

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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
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51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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>>> base64.c-none
>>> convertutf.c/.h from unicode, inc.-none
>>> freebsd-1.72
>>> icu4c-4.4.1
>>> unicode-5.0

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>>> base64.c-none

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> convertutf.c/.h from unicode, inc.-none

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>>> icu4c-4.4.1

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1.124 opensaml 2.5.3

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1.125 openssh 7.3p1

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- IDEA is no longer included, its use is deprecated
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- The make-ssh-known-hosts script is no longer included

- TSS has been removed
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1.128 otp 19.1

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[PCRE]

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included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

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

University of Cambridge Computing Service,
Cambridge, England.

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[Misc C library code]

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 */
```

[zlib]

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

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


 The data format used by the zlib library is described by RFCs (Request for
 Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
 (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/
```

[edoc, syntax_tools]

```
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```

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%% Id
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%% @copyright 2001-2003 Richard Carlsson
%% @author Richard Carlsson <richardc@csd.uu.se>
%%   [http://www.csd.uu.se/~richardc/]
%% @version {@vsn}
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%% ===

[leex]

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[eldap]

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1.131 pciutils 3.5.1

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1.132 pcre 8.39

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
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1.134 PIE-1.0beta5 1.0beta5

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

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1.137 prototype.js 1.7

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```
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```

1.138 psmisc 22.21

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1.139 pycpuid 0.2.0

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1.140 python-attrs 16.2.0

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1.142 python-cffi 1.8.3

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1.143 python-coverage 4.2

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1.144 python-cryptography 1.5.2

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1.145 python-dbus 1.2.4

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1.146 python-defusedxml 0.4.1 :28-Mar-2013

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1.147 python-dnspython 1.14.0

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1.148 python-enum34 1.1.6

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1.149 python-functools32 3.2.3-2

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes

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1.150 python-httplib2 0.9.2

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1.151 python-idna 1.1 :(2015-01-27)

1.152 python-jsonschema 2.5.1

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1.153 python-ldap 2.4.27

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1.154 python-lxml 3.6.4

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1.155 python-lxml_test_script 3.3.5

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1.156 python-peewee 2.7.2

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1.157 python-pyasn1 0.1.9

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1.158 python-pyasn1-modules 0.0.8

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1.159 python-pycparser 2.14

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1.160 python-pygobject 2.28.6

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1.161 python-pyinotify 0.9.6

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1.162 python-pyopenssl 16.1.0

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1.163 python-pyparsing 2.0.3

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1.164 python-pyratemp 0.3.2

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1.165 python-pysnmp 4.2.5 :rc2

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1.166 python-service_identity 16.0.0

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1.167 python-setuptools 28.1.0

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1.168 python-six 1.10.0

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1.170 python-ujson 1.35

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1.172 python-yaml 3.12

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1.173 python-zope-interface 4.3.2

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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#! /bin/sh

Script to translate LDFLAGS into a form suitable for use with libtool.

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1.177 samba 3.6.25

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1.178 scriptaculous 1.8.2

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1.179 sdparm 1.10

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1.180 sed 4.2.2

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1.183 smem 1.4

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1.184 sqlite 3.14.2

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1.186 stringencoders 3.10.3

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```
* The apr_vsnprintf/apr_snprintf functions are based on, and used with the
* permission of, the  SIO stdio-replacement strx_* functions by Panos
* Tsirigotis <panos@alumni.cs.colorado.edu> for xinetd.
*/

/**
* @file apr_base64.h
* @brief APR-UTIL Base64 Encoding
*/
#ifndef APR_BASE64_H
#define APR_BASE64_H

//#include "apu.h"
//#include "apr_general.h"
#define APU_DECLARE(x) x

#ifdef __cplusplus
extern "C" {
#endif

/**
* @defgroup APR_Util_Base64 Base64 Encoding
* @ingroup APR_Util
* @{
*/

/* Simple BASE64 encode/decode functions.
*
* As we might encode binary strings, hence we require the length of
* the incoming plain source. And return the length of what we decoded.
*
* The decoding function takes any non valid char (i.e. whitespace, \0
* or anything non A-Z,0-9 etc as terminal.
*
* plain strings/binary sequences are not assumed '\0' terminated. Encoded
* strings are neither. But probably should.
*
*/

/**
* Given the length of an un-encrypted string, get the length of the
* encrypted string.
* @param len the length of an unencrypted string.
* @return the length of the string after it is encrypted
*/
APU_DECLARE(int) apr_base64_encode_len(int len);

/**
```

```
* Encode a text string using base64encoding.
* @param coded_dst The destination string for the encoded string.
* @param plain_src The original string in plain text
* @param len_plain_src The length of the plain text string
* @return the length of the encoded string
*/
APU_DECLARE(int) apr_base64_encode(char * coded_dst, const char *plain_src,
                                   int len_plain_src);

/**
* Encode an EBCDIC string using base64encoding.
* @param coded_dst The destination string for the encoded string.
* @param plain_src The original string in plain text
* @param len_plain_src The length of the plain text string
* @return the length of the encoded string
*/
APU_DECLARE(int) apr_base64_encode_binary(char * coded_dst,
                                          const unsigned char *plain_src,
                                          int len_plain_src);

/**
* Determine the length of a plain text string given the encoded version
* @param coded_src The encoded string
* @return the length of the plain text string
*/
APU_DECLARE(int) apr_base64_decode_len(const char * coded_src);

/**
* Decode a string to plain text
* @param plain_dst The destination string for the plain text
* @param coded_src The encoded string
* @return the length of the plain text string
*/
APU_DECLARE(int) apr_base64_decode(char * plain_dst, const char *coded_src);

/**
* Decode an EBCDIC string to plain text
* @param plain_dst The destination string for the plain text
* @param coded_src The encoded string
* @return the length of the plain text string
*/
APU_DECLARE(int) apr_base64_decode_binary(unsigned char * plain_dst,
                                          const char *coded_src);

/** @} */
#ifdef __cplusplus
}
#endif
```

```
#endif /* !APR_BASE64_H */
```

1.187 sudo 1.8.18

1.187.1 Available under license :

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben

Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
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Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.

McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
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Peron, Christian S.J.
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Peterson, Toby
Petten, Diego Elio
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Plotnick, Alex
de Raadt, Theo
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Rowe, William A., Jr.
Roy, Alain
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Snchez, Wilfredo
Saucier, Jean-Francois
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Schuring, Arno
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Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
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Spradling, Cloyce D.
Stier, Matthew
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Street, Russell
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Toft, Martin
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Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
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Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael

Garca-Fontes, Walter
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Kramer, Jakob
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Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
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Uranga, Mikel Olasagasti
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1.189 sysfsutils 2.1.0

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sysfsutils/lib/LGPL

1.190 syslog-ng 3.7.3

1.190.1 Available under license :

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

/* Bison implementation for Yacc-like parsers in C

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along with this program. If not, see <http://www.gnu.org/licenses/>. */

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

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 15
#define LL_CONTEXT_INNER_SRC 16
#define LL_CONTEXT_CLIENT_PROTO 17
#define LL_CONTEXT_SERVER_PROTO 18
#define KW_SOURCE 10000
#define KW_FILTER 10001
#define KW_PARSER 10002
#define KW_DESTINATION 10003
#define KW_LOG 10004
#define KW_OPTIONS 10005
#define KW_INCLUDE 10006
#define KW_BLOCK 10007
#define KW_JUNCTION 10008
#define KW_CHANNEL 10009
#define KW_INTERNAL 10010
#define KW_FILE 10011
#define KW_SQL 10030
#define KW_TYPE 10031
#define KW_COLUMNS 10032
#define KW_INDEXES 10033
#define KW_VALUES 10034
#define KW_PASSWORD 10035
#define KW_DATABASE 10036
#define KW_USERNAME 10037
#define KW_TABLE 10038
#define KW_ENCODING 10039
#define KW_SESSION_STATEMENTS 10040
#define KW_DELIMITERS 10050
#define KW_QUOTES 10051
#define KW_QUOTE_PAIRS 10052
#define KW_NULL 10053
#define KW_SYSLOG 10060
#define KW_MARK_FREQ 10071
#define KW_STATS_FREQ 10072
#define KW_STATS_LEVEL 10073
#define KW_STATS_LIFETIME 10074
#define KW_FLUSH_LINES 10075
#define KW_SUPPRESS 10076
#define KW_FLUSH_TIMEOUT 10077
```

```
#define KW_LOG_MSG_SIZE 10078
#define KW_FILE_TEMPLATE 10079
#define KW_PROTO_TEMPLATE 10080
#define KW_MARK_MODE 10081
#define KW_CHAIN_HOSTNAMES 10090
#define KW_NORMALIZE_HOSTNAMES 10091
#define KW_KEEP_HOSTNAME 10092
#define KW_CHECK_HOSTNAME 10093
#define KW_BAD_HOSTNAME 10094
#define KW_KEEP_TIMESTAMP 10100
#define KW_USE_DNS 10110
#define KW_USE_FQDN 10111
#define KW_CUSTOM_DOMAIN 10112
#define KW_DNS_CACHE 10120
#define KW_DNS_CACHE_SIZE 10121
#define KW_DNS_CACHE_EXPIRE 10130
#define KW_DNS_CACHE_EXPIRE_FAILED 10131
#define KW_DNS_CACHE_HOSTS 10132
#define KW_PERSIST_ONLY 10140
#define KW_USE_RCPTID 10141
#define KW_TZ_CONVERT 10150
#define KW_TS_FORMAT 10151
#define KW_FRAC_DIGITS 10152
#define KW_LOG_FIFO_SIZE 10160
#define KW_LOG_FETCH_LIMIT 10162
#define KW_LOG_IW_SIZE 10163
#define KW_LOG_PREFIX 10164
#define KW_PROGRAM_OVERRIDE 10165
#define KW_HOST_OVERRIDE 10166
#define KW_THROTTLE 10170
#define KW_THREADED 10171
#define KW_FLAGS 10190
#define KW_PAD_SIZE 10200
#define KW_TIME_ZONE 10201
#define KW_RECV_TIME_ZONE 10202
#define KW_SEND_TIME_ZONE 10203
#define KW_LOCAL_TIME_ZONE 10204
#define KW_FORMAT 10205
#define KW_TIME_REOPEN 10210
#define KW_TIME_REAP 10211
#define KW_TIME_SLEEP 10212
#define KW_TMPL_ESCAPE 10220
#define KW_OPTIONAL 10230
#define KW_CREATE_DIRS 10240
#define KW_OWNER 10250
#define KW_GROUP 10251
#define KW_PERM 10252
#define KW_DIR_OWNER 10260
```

```
#define KW_DIR_GROUP 10261
#define KW_DIR_PERM 10262
#define KW_TEMPLATE 10270
#define KW_TEMPLATE_ESCAPE 10271
#define KW_DEFAULT_FACILITY 10300
#define KW_DEFAULT_LEVEL 10301
#define KW_PORT 10323
#define KW_USE_TIME_RECVD 10340
#define KW_FACILITY 10350
#define KW_LEVEL 10351
#define KW_HOST 10352
#define KW_MATCH 10353
#define KW_MESSAGE 10354
#define KW_NETMASK 10355
#define KW_TAGS 10356
#define KW_VALUE 10361
#define KW_REWRITE 10370
#define KW_SET 10371
#define KW_SUBST 10372
#define KW_YES 10380
#define KW_NO 10381
#define KW_IFDEF 10410
#define KW_ENDIF 10411
#define LL_DOTDOT 10420
#define LL_IDENTIFIER 10421
#define LL_NUMBER 10422
#define LL_FLOAT 10423
#define LL_STRING 10424
#define LL_TOKEN 10425
#define LL_BLOCK 10426
#define LL_PRAGMA 10427
#define LL_EOL 10428
#define LL_ERROR 10429
#define KW_VALUE_PAIRS 10500
#define KW_SELECT 10501
#define KW_EXCLUDE 10502
#define KW_PAIR 10503
#define KW_KEY 10504
#define KW_SCOPE 10505
#define KW_SHIFT 10506
#define KW_REKEY 10507
#define KW_ADD_PREFIX 10508
#define KW_REPLACE_PREFIX 10509
#define KW_ON_ERROR 10510
#define KW_RETRIES 10511
#define KW_CONDITION 10513
#define KW_SET_TAG 10514
#define KW_CLEAR_TAG 10515
```

```
#define KW_GROUP_SET 10516

/* Value type.  */

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



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

#endif /* !YY_REWRITE_EXPR_LIB_REWRITE_REWRITE_EXPR_GRAMMAR_H_INCLUDED  */

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

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


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

#include <string.h>

LogRewrite *last_rewrite;

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

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

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

#define CHECK_ERROR(val, token, errorfmt, ...) do {               \
  if (!(val))                                                     \
    {                                                             \
      if (errorfmt)                                               \
        {                                                         \
          gchar __buf[256];                                       \
          g_snprintf(__buf, sizeof(__buf), errorfmt, ## __VA_ARGS__); \
          yyerror(& (token), lexer, NULL, NULL, __buf);           \
        }                                                         \
      YYERROR;                                                    \
    }                                                             \
 } while (0)

#define CHECK_ERROR_GERROR(val, token, error, errorfmt, ...) do {  \
  if (!(val))                                                     \
    {                                                             \
      if (errorfmt)                                               \
        {                                                         \
          gchar __buf[256];                                       \
          g_snprintf(__buf, sizeof(__buf), errorfmt ", error=%s", ## __VA_ARGS__, error->message); \
```

```
          yyerror(& (token), lexer, NULL, NULL, __buf);              \
        }                                                            \
       g_clear_error(&error);      \
       YYERROR;                                                      \
     }                                                               \
 } while (0)

#define YYMAXDEPTH 20000



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

#ifdef short
# undef short
#endif

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

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

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

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

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

```
#  define YYSIZE_T size_t
# else
#  define YYSIZE_T unsigned int
# endif
#endif

#define YYSIZE_MAXIMUM ((YYSIZE_T) -1)

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

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

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

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

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

/* Suppress unused-variable warnings by "using" E.  */
```

```
#if ! defined lint || defined __GNUC__
# define YYUSE(E) ((void) (E))
#else
# define YYUSE(E) /* empty */
#endif

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


#if ! defined yyoverflow || YYERROR_VERBOSE

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

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

```
#     endif
#    endif
#   endif
#  endif
# endif

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


#if (! defined yyoverflow \
   && (! defined __cplusplus \
```

```
       || (defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL \
           && defined YYSTYPE_IS_TRIVIAL && YYSTYPE_IS_TRIVIAL)))

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

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

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

# define YYCOPY_NEEDED 1

/* Relocate STACK from its old location to the new one.  The
  local variables YYSIZE and YYSTACKSIZE give the old and new number of
  elements in the stack, and YYPTR gives the new location of the
  stack.  Advance YYPTR to a properly aligned location for the next
  stack.  */
# define YYSTACK_RELOCATE(Stack_alloc, Stack)                           \
   do                                                                   \
     {                                                                  \
       YYSIZE_T yynewbytes;                                             \
       YYCOPY (&yyptr->Stack_alloc, Stack, yysize);                     \
       Stack = &yyptr->Stack_alloc;                                     \
       yynewbytes = yystacksize * sizeof (*Stack) + YYSTACK_GAP_MAXIMUM; \
       yyptr += yynewbytes / sizeof (*yyptr);                           \
     }                                                                  \
   while (0)

#endif

#if defined YYCOPY_NEEDED && YYCOPY_NEEDED
/* Copy COUNT objects from SRC to DST.  The source and destination do
  not overlap.  */
# ifndef YYCOPY
#  if defined __GNUC__ && 1 < __GNUC__
#   define YYCOPY(Dst, Src, Count) \
     __builtin_memcpy (Dst, Src, (Count) * sizeof (*(Src)))
#  else
```

```
# define YYCOPY(Dst, Src, Count)            \
    do                                      \
      {                                     \
        YYSIZE_T yyi;                       \
        for (yyi = 0; yyi < (Count); yyi++)   \
          (Dst)[yyi] = (Src)[yyi];          \
      }                                     \
    while (0)
#  endif
# endif
#endif /* !YYCOPY_NEEDED */

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

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

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

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

/* YYTRANSLATE[TOKEN-NUM] -- Symbol number corresponding to TOKEN-NUM
  as returned by yylex, without out-of-bounds checking.  */
static const yytype_uint8 yytranslate[] =
{
     0,     3,     4,     5,     6,     7,     8,     9,    10,    11,
    12,    13,    14,    15,    16,    17,    18,    19,    20,     2,
     2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
     2,     2,     2,     2,     2,     2,     2,     2,     2,     2,
   153,   154,     2,     2,     2,     2,     2,     2,     2,     2,
     2,     2,     2,     2,     2,     2,     2,     2,   158,   157,
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2, 49, 50, 51, 52, 53, 54, 55, 56, 57,
58, 59, 2, 2, 2, 2, 2, 2, 2, 2,
60, 61, 62, 63, 64, 2, 2, 2, 2, 2,
65, 2, 2, 2, 2, 2, 2, 2, 2, 2,
66, 67, 68, 2, 2, 2, 2, 2, 2, 2,
69, 70, 2, 2, 2, 2, 2, 2, 2, 2,
71, 72, 73, 2, 2, 2, 2, 2, 2, 2,
74, 75, 2, 2, 2, 2, 2, 2, 2, 2,
76, 77, 78, 2, 2, 2, 2, 2, 2, 2,
79, 2, 80, 81, 82, 83, 84, 2, 2, 2,
85, 86, 2, 2, 2, 2, 2, 2, 2, 2,

```
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
   87,    2,    2,    2,    2,    2,    2,    2,    2,    2,
   88,   89,   90,   91,   92,   93,    2,    2,    2,    2,
   94,   95,   96,    2,    2,    2,    2,    2,    2,    2,
   97,    2,    2,    2,    2,    2,    2,    2,    2,    2,
   98,    2,    2,    2,    2,    2,    2,    2,    2,    2,
   99,    2,    2,    2,    2,    2,    2,    2,    2,    2,
  100,  101,  102,    2,    2,    2,    2,    2,    2,    2,
  103,  104,  105,    2,    2,    2,    2,    2,    2,    2,
  106,  107,    2,    2,    2,    2,    2,    2,    2,    2,
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
  108,  109,    2,    2,    2,    2,    2,    2,    2,    2,
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
    2,    2,    2,  110,    2,    2,    2,    2,    2,    2,
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
  111,    2,    2,    2,    2,    2,    2,    2,    2,    2,
  112,  113,  114,  115,  116,  117,  118,    2,    2,    2,
    2,  119,    2,    2,    2,    2,    2,    2,    2,    2,
  120,  121,  122,    2,    2,    2,    2,    2,    2,    2,
  123,  124,    2,    2,    2,    2,    2,    2,    2,    2,
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
  125,  126,    2,    2,    2,    2,    2,    2,    2,    2,
  127,  128,  129,  130,  131,  132,  133,  134,  135,  136,
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
    2,    2,    2,    2,    2,    2,    2,    2,    2,    2,
  137,  138,  139,  140,  141,  142,  143,  144,  145,  146,
  147,  148,    2,  149,  150,  151,  152
};

#if YYDEBUG
 /* YYRLINE[YYN] -- Source line where rule number YYN was defined.  */
static const yytype_uint16 yyrline[] =
{
    0,  387,  387,  391,  392,  393,  397,  409,  408,  421,
  420,  426,  427,  429,  428,  435,  454,  455,  459,  463,
  467,  468,  472,  472,  473,  477,  478,  482,  497,  502,
  501,  514,  516,  514,  523,  524,  525,  529,  530,  534,
  553,  557,  557,  565,  566,  570,  575,  586,  596,  605,
  607,  605,  616,  617,  618,  622,  626,  645,  646,  650,
  651,  652,  653,  654,  655,  656,  657,  658,  659,  660,
  664,  676,  681,  682,  686,  687,  691,  695,  696,  700,
```

```
  701,  732,  733,  737,  738,  739,  743,  744,  754,  758,
  759,  763,  764,  810,  811,  812,  813,  814,  815,  816,
  817,  818,  818,  831,  832,  833,  834,  978,  979,  983,
  984
};
#endif

#if YYDEBUG || YYERROR_VERBOSE || 1
/* YYTNAME[SYMBOL-NUM] -- String name of the symbol SYMBOL-NUM.
   First, the terminals, then, starting at YYNTOKENS, nonterminals.  */
static const char *const yytname[] =
{
 "$end", "error", "$undefined", "LL_CONTEXT_ROOT",
 "LL_CONTEXT_DESTINATION", "LL_CONTEXT_SOURCE", "LL_CONTEXT_PARSER",
 "LL_CONTEXT_REWRITE", "LL_CONTEXT_FILTER", "LL_CONTEXT_LOG",
 "LL_CONTEXT_BLOCK_DEF", "LL_CONTEXT_BLOCK_REF",
 "LL_CONTEXT_BLOCK_CONTENT", "LL_CONTEXT_BLOCK_ARG", "LL_CONTEXT_PRAGMA",
 "LL_CONTEXT_FORMAT", "LL_CONTEXT_TEMPLATE_FUNC", "LL_CONTEXT_INNER_DEST",
 "LL_CONTEXT_INNER_SRC", "LL_CONTEXT_CLIENT_PROTO",
 "LL_CONTEXT_SERVER_PROTO", "KW_SOURCE", "KW_FILTER", "KW_PARSER",
 "KW_DESTINATION", "KW_LOG", "KW_OPTIONS", "KW_INCLUDE", "KW_BLOCK",
 "KW_JUNCTION", "KW_CHANNEL", "KW_INTERNAL", "KW_FILE", "KW_SQL",
 "KW_TYPE", "KW_COLUMNS", "KW_INDEXES", "KW_VALUES", "KW_PASSWORD",
 "KW_DATABASE", "KW_USERNAME", "KW_TABLE", "KW_ENCODING",
 "KW_SESSION_STATEMENTS", "KW_DELIMITERS", "KW_QUOTES", "KW_QUOTE_PAIRS",
 "KW_NULL", "KW_SYSLOG", "KW_MARK_FREQ", "KW_STATS_FREQ",
 "KW_STATS_LEVEL", "KW_STATS_LIFETIME", "KW_FLUSH_LINES", "KW_SUPPRESS",
 "KW_FLUSH_TIMEOUT", "KW_LOG_MSG_SIZE", "KW_FILE_TEMPLATE",
 "KW_PROTO_TEMPLATE", "KW_MARK_MODE", "KW_CHAIN_HOSTNAMES",
 "KW_NORMALIZE_HOSTNAMES", "KW_KEEP_HOSTNAME", "KW_CHECK_HOSTNAME",
 "KW_BAD_HOSTNAME", "KW_KEEP_TIMESTAMP", "KW_USE_DNS", "KW_USE_FQDN",
 "KW_CUSTOM_DOMAIN", "KW_DNS_CACHE", "KW_DNS_CACHE_SIZE",
 "KW_DNS_CACHE_EXPIRE", "KW_DNS_CACHE_EXPIRE_FAILED",
 "KW_DNS_CACHE_HOSTS", "KW_PERSIST_ONLY", "KW_USE_RCPTID",
 "KW_TZ_CONVERT", "KW_TS_FORMAT", "KW_FRAC_DIGITS", "KW_LOG_FIFO_SIZE",
 "KW_LOG_FETCH_LIMIT", "KW_LOG_IW_SIZE", "KW_LOG_PREFIX",
 "KW_PROGRAM_OVERRIDE", "KW_HOST_OVERRIDE", "KW_THROTTLE", "KW_THREADED",
 "KW_FLAGS", "KW_PAD_SIZE", "KW_TIME_ZONE", "KW_RECV_TIME_ZONE",
 "KW_SEND_TIME_ZONE", "KW_LOCAL_TIME_ZONE", "KW_FORMAT", "KW_TIME_REOPEN",
 "KW_TIME_REAP", "KW_TIME_SLEEP", "KW_TMPL_ESCAPE", "KW_OPTIONAL",
 "KW_CREATE_DIRS", "KW_OWNER", "KW_GROUP", "KW_PERM", "KW_DIR_OWNER",
 "KW_DIR_GROUP", "KW_DIR_PERM", "KW_TEMPLATE", "KW_TEMPLATE_ESCAPE",
 "KW_DEFAULT_FACILITY", "KW_DEFAULT_LEVEL", "KW_PORT",
 "KW_USE_TIME_RECVD", "KW_FACILITY", "KW_LEVEL", "KW_HOST", "KW_MATCH",
 "KW_MESSAGE", "KW_NETMASK", "KW_TAGS", "KW_VALUE", "KW_REWRITE",
 "KW_SET", "KW_SUBST", "KW_YES", "KW_NO", "KW_IFDEF", "KW_ENDIF",
 "LL_DOTDOT", "LL_IDENTIFIER", "LL_NUMBER", "LL_FLOAT", "LL_STRING",
 "LL_TOKEN", "LL_BLOCK", "LL_PRAGMA", "LL_EOL", "LL_ERROR",
```

```
 "KW_VALUE_PAIRS", "KW_SELECT", "KW_EXCLUDE", "KW_PAIR", "KW_KEY",
 "KW_SCOPE", "KW_SHIFT", "KW_REKEY", "KW_ADD_PREFIX", "KW_REPLACE_PREFIX",
 "KW_ON_ERROR", "KW_RETRIES", "KW_CONDITION", "KW_SET_TAG",
 "KW_CLEAR_TAG", "KW_GROUP_SET", "'('", "')'", "'{'", "'}'", "';'", "':'",
 "$accept", "start", "rewrite_expr_list", "rewrite_template_content",
 "rewrite_expr", "$@1", "$@2", "$@3", "rewrite_groupset_opts",
 "rewrite_groupset_opt", "rewrite_subst_opts", "rewrite_subst_opt", "$@4",
 "rewrite_expr_opts", "rewrite_expr_opt", "rewrite_condition_opt", "$@5",
 "source_content", "$@6", "$@7", "source_items", "source_item",
 "source_plugin", "source_afinter", "source_afinter_params", "$@8",
 "source_afinter_options", "source_afinter_option", "filter_content",
 "parser_content", "rewrite_content", "dest_content", "$@9", "$@10",
 "dest_items", "dest_item", "dest_plugin", "log_items", "log_item",
 "log_junction", "log_last_junction", "log_forks", "log_fork",
 "log_content", "log_flags", "log_flags_items", "string", "yesno",
 "dnsmode", "string_list", "string_list_build", "semicolons",
 "source_option", "$@12", "host_resolve_option", "matcher_option",
 "matcher_flags", YY_NULLPTR
};
#endif

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

#define YYPACT_NINF -106

#define yypact_value_is_default(Yystate) \
```

```
 (!!((Yystate) == (-106)))

#define YYTABLE_NINF -45

#define yytable_value_is_error(Yytable_value) \
 0

 /* YYPACT[STATE-NUM] -- Index in YYTABLE of the portion describing
    STATE-NUM.  */
static const yytype_int8 yypact[] =
{
   -15,   -87,   -73,   -65,  -106,   -59,   -58,   -57,    97,    17,
   -54,   -54,    17,   -75,   -75,   -75,   -75,   -75,  -106,   -55,
   -51,  -106,  -106,   -54,   -54,   -15,   -15,   -47,  -106,  -106,
  -106,  -106,   -75,   -49,   -44,  -106,    -6,    -6,    17,  -106,
  -106,  -106,  -106,   -97,  -106,  -106,  -106,   -34,  -104,   -89,
   -70,   -69,   -66,    17,   -54,  -106,   -35,   -32,  -106,   -52,
   -41,   -29,   -97,  -106,   -82,   -31,   -25,   -34,  -106,   -75,
  -106,   -75,  -106,   -75,  -106,   -75,  -106,   -75,  -106,    12,
    -6,  -106,  -106,   -75,  -106,  -106,  -106,   -21,   -82,   -22,
  -106,   -75,  -106,  -106,   -16,   -30,   -20,   -11,   -10,    -9,
    -8,    -5,    -3,   -17,    -2,    -1,   -12,  -106,  -106,     0,
     2,  -106,  -106,     4,     5,  -106,   -75,     6,  -106,  -106,
  -106,     8,  -106,  -106,   -54,  -106,  -106,   -54,  -106,  -106,
  -106,  -106,  -106,  -106,  -106,  -106,   -54,  -106,   -54,  -106,
  -106,   -75,  -106,  -106,   -75,   -75,  -106,  -106,  -106,  -106,
   -20,   -20,  -106,   -17,   -17,     9,   -75,    10,   -75,    11,
    13,   -56,  -106,  -106,  -106,  -106,   -54,  -106,  -106,  -106,
  -106,  -106,    15,    18,    19,    21,    26,    27,    28,    29,
  -106,   -56,  -106,   -26,  -106,   -85,   -85,   -85,    22,   -75,
   -75,   -75,   -75,  -106,    30,    31,    32,    33,  -106,  -106,
  -106,  -106,    34,    35,    36,    37,    38,    39,    40,    41,
   -85,   -53,   -85,   -85,  -106,  -106,  -106,  -106,  -106,  -106,
  -106,  -106,    42,  -106,  -106,    43,    44,    45,  -106,  -106,
  -106,  -106
};

 /* YYDEFACT[STATE-NUM] -- Default reduction number in state STATE-NUM.
    Performed when YYTABLE does not specify something else to do.  Zero
    means the default is an error.  */
static const yytype_uint8 yydefact[] =
{
     5,     0,     0,     0,    15,     0,     0,     0,     0,    73,
     0,     0,    73,     0,     0,     0,     0,     0,     1,     0,
     0,     2,    71,     0,    91,     5,     5,     0,    81,    82,
     9,     6,     0,     0,     0,    13,    58,    58,    73,    92,
     3,     4,    70,    26,     7,    11,    12,    17,     0,     0,
     0,     0,     0,    73,     0,    69,     0,     0,    72,     0,
```

```
     0,     0,    26,    28,    22,     0,     0,    17,    19,     0,
    31,     0,    46,     0,    47,     0,    49,     0,    48,    78,
    58,    74,    75,     0,    29,    10,    25,     0,    22,     0,
    24,    90,    14,    16,     0,     0,    36,     0,     0,     0,
     0,     0,     0,    54,     0,     0,     0,    76,    57,     0,
     0,     8,    20,     0,     0,    23,    90,     0,    88,    59,
    60,     0,    39,    32,     0,    38,    37,     0,    61,    62,
    63,    64,    67,    68,    56,    50,     0,    55,     0,    65,
    66,    80,    27,    30,     0,   110,    89,    18,    41,    33,
    36,    36,    51,    54,    54,     0,    80,     0,   110,     0,
     0,   101,    34,    35,    52,    53,     0,    79,   107,   109,
   108,    40,     0,     0,     0,     0,     0,     0,     0,     0,
    42,   101,    45,     0,    77,     0,     0,     0,     0,     0,
     0,     0,    90,    43,     0,     0,     0,     0,   102,    83,
    84,    85,     0,     0,     0,     0,     0,     0,     0,     0,
     0,     0,     0,     0,    94,    95,    99,    93,    98,    96,
    97,   100,     0,    87,    86,     0,     0,     0,   106,   104,
   103,   105
};

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

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

 /* YYTABLE[YYPACT[STATE-NUM]] -- What to do in state STATE-NUM.  If
    positive, shift that token.  If negative, reduce the rule whose
    number is the opposite.  If YYTABLE_NINF, syntax error.  */
static const yytype_int16 yytable[] =
{
    32,    33,    34,    65,   172,    19,   173,    26,    19,   174,
```

```
    20,   121,   113,    20,     1,    48,    49,    50,    51,    38,
    39,   223,    59,     1,   127,   175,   176,   177,   178,    55,
    55,   138,    27,    35,    68,   194,    90,    59,   199,   200,
   195,   196,    19,   197,   201,   162,   163,    20,    44,    69,
    80,    70,    60,    28,    68,    94,    29,    97,    58,    99,
    90,   101,   179,   104,    71,   114,    72,    60,    12,   109,
   199,   200,   -21,    55,    40,    41,   201,   116,   127,   127,
    13,   138,   138,    73,    75,    74,    76,    77,    14,    78,
   164,   165,   203,   204,    15,    16,    17,    18,   -44,   106,
    36,    83,   116,    24,    37,    45,     2,     3,   122,    42,
    46,   134,    84,     4,    52,    60,   222,   224,   226,   227,
   150,    81,    91,   151,    82,    85,   120,   156,    93,    92,
   157,   158,   153,   111,   154,     5,     6,     7,   119,   112,
    86,   141,   156,   128,   158,   130,   129,   108,   131,   132,
    57,   205,   139,   133,   142,   140,   143,   144,   145,    79,
   147,   148,   184,   166,   168,   170,   146,   171,   185,   209,
   167,   186,   187,     0,   188,   206,   207,   208,   116,   189,
   190,   191,   192,   210,   211,   212,   213,     0,   214,   215,
   216,   217,   218,   219,   220,   221,   228,   229,   230,   231,
     0,     0,     0,     0,   193,   169
};

static const yytype_int16 yycheck[] =
{
    14,    15,    16,    37,    60,    25,    62,    11,    25,    65,
    30,    31,    34,    30,    29,    21,    22,    23,    24,    23,
    24,    74,   119,    29,    96,    81,    82,    83,    84,    36,
    37,   103,    12,    17,    47,    61,    64,   119,   123,   124,
    66,    67,    25,    69,   129,   150,   151,    30,    32,   153,
    54,   155,   149,   128,    67,    69,   131,    71,    38,    73,
    88,    75,   118,    77,   153,    87,   155,   149,   155,    83,
   123,   124,   154,    80,    25,    26,   129,    91,   150,   151,
   153,   153,   154,   153,   153,   155,   155,   153,   153,   155,
   153,   154,   186,   187,   153,   153,   153,     0,   154,    87,
   155,   153,   116,   157,   155,   154,   121,   122,   128,   156,
   154,   128,   153,   128,   120,   149,   210,   211,   212,   213,
   124,   156,   153,   127,   156,   154,   156,   141,    67,   154,
   144,   145,   136,   154,   138,   150,   151,   152,   154,    88,
    62,   153,   156,   154,   158,   154,   156,    80,   156,   154,
    37,   129,   154,   156,   154,   156,   154,   153,   153,    53,
   154,   153,   166,   154,   154,   154,   116,   154,   153,   192,
   156,   153,   153,    -1,   153,   189,   190,   191,   192,   153,
   153,   153,   153,   153,   153,   153,   153,    -1,   154,   154,
   154,   154,   154,   154,   154,   154,   154,   154,   154,   154,
    -1,    -1,    -1,    -1,   181,   158
};

 /* YYSTOS[STATE-NUM] -- The (internal number of the) accessing
```

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

 /* YYR1[YYN] -- Symbol number of symbol that rule YYN derives.  */
static const yytype_uint8 yyr1[] =
{
     0,  159,  160,  161,  161,  161,  162,  164,  163,  165,
   163,  163,  163,  166,  163,  163,  167,  167,  168,  168,
   169,  169,  171,  170,  170,  172,  172,  173,  173,  175,
   174,  177,  178,  176,  179,  179,  179,  180,  180,  181,
   182,  184,  183,  185,  185,  186,  187,  188,  189,  191,
   192,  190,  193,  193,  193,  194,  195,  196,  196,  197,
   197,  197,  197,  197,  197,  197,  197,  197,  197,  197,
   198,  199,  200,  200,  201,  201,  202,  203,  203,  204,
   204,  205,  205,  206,  206,  206,  207,  207,  208,  209,
   209,  210,  210,  211,  211,  211,  211,  211,  211,  211,
   211,  212,  211,  213,  213,  213,  213,  214,  214,  215,
   215
};

 /* YYR2[YYN] -- Number of symbols on the right hand side of rule YYN.  */
static const yytype_uint8 yyr2[] =
```

```
{
    0,   2,   2,   3,   3,   0,   1,   0,   7,   0,
    6,   4,   4,   0,   6,   1,   2,   0,   4,   1,
    2,   0,   0,   2,   1,   2,   0,   4,   1,   0,
    4,   0,   0,   3,   3,   3,   0,   1,   1,   1,
    4,   0,   2,   2,   0,   1,   0,   0,   0,   0,
    0,   3,   3,   3,   0,   1,   1,   3,   0,   4,
    4,   4,   4,   4,   4,   4,   4,   4,   4,   1,
    4,   1,   3,   0,   4,   4,   3,   5,   0,   2,
    0,   1,   1,   1,   1,   1,   1,   1,   1,   2,
    0,   1,   2,   4,   4,   4,   4,   4,   4,   4,
    4,   0,   2,   4,   4,   4,   4,   4,   4,   2,
    0
};


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

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


#define YYRECOVERING()  (!!yyerrstatus)

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

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

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

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

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


/* Enable debugging if requested.  */
#if YYDEBUG

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

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


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

```
#ifndef YY_LOCATION_PRINT
# if defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL

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

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

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

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



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

```
  }                                                \
} while (0)


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

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


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

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

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

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

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

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

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


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

static void
yy_reduce_print (yytype_int16 *yyssp, YYSTYPE *yyvsp, YYLTYPE *yylsp, int yyrule, CfgLexer *lexer,
LogExprNode **result, gpointer arg)
{
 unsigned long int yylno = yyrline[yyrule];
 int yynrhs = yyr2[yyrule];
 int yyi;
 YYFPRINTF (stderr, "Reducing stack by rule %d (line %lu):\n",
            yyrule - 1, yylno);
 /* The symbols being reduced.  */
 for (yyi = 0; yyi < yynrhs; yyi++)
   {
     YYFPRINTF (stderr, "   $%d = ", yyi + 1);
     yy_symbol_print (stderr,
                      yystos[yyssp[yyi + 1 - yynrhs]],
                      &(yyvsp[(yyi + 1) - (yynrhs)])
                      , &(yylsp[(yyi + 1) - (yynrhs)])                       , lexer, result, arg);
     YYFPRINTF (stderr, "\n");
   }
}

# define YY_REDUCE_PRINT(Rule)          \
do {                                    \
```

```
 if (yydebug)                  \
   yy_reduce_print (yyssp, yyvsp, yylsp, Rule, lexer, result, arg); \
} while (0)

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


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

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

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

#ifndef YYMAXDEPTH
# define YYMAXDEPTH 10000
#endif


#if YYERROR_VERBOSE

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

```
# endif

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

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

 return yyd - 1;
}
#  endif
# endif

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

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

         case '\\':
           if (*++yyp != '\\')
             goto do_not_strip_quotes;
```

```
          /* Fall through.  */
        default:
          if (yyres)
            yyres[yyn] = *yyp;
          yyn++;
          break;

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

  if (! yyres)
    return yystrlen (yystr);

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

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

   Return 0 if *YYMSG was successfully written.  Return 1 if *YYMSG is
   not large enough to hold the message.  In that case, also set
   *YYMSG_ALLOC to the required number of bytes.  Return 2 if the
   required number of bytes is too large to store.  */
static int
yysyntax_error (YYSIZE_T *yymsg_alloc, char **yymsg,
                yytype_int16 *yyssp, int yytoken)
{
  YYSIZE_T yysize0 = yytnamerr (YY_NULLPTR, yytname[yytoken]);
  YYSIZE_T yysize = yysize0;
  enum { YYERROR_VERBOSE_ARGS_MAXIMUM = 5 };
  /* Internationalized format string. */
  const char *yyformat = YY_NULLPTR;
  /* Arguments of yyformat. */
  char const *yyarg[YYERROR_VERBOSE_ARGS_MAXIMUM];
  /* Number of reported tokens (one for the "unexpected", one per
     "expected"). */
  int yycount = 0;

  /* There are many possibilities here to consider:
     - If this state is a consistent state with a default action, then
       the only way this function was invoked is if the default action
```

```
     is an error action.  In that case, don't check for expected
     tokens because there are none.
   - The only way there can be no lookahead present (in yychar) is if
     this state is a consistent state with a default action.  Thus,
     detecting the absence of a lookahead is sufficient to determine
     that there is no unexpected or expected token to report.  In that
     case, just report a simple "syntax error".
   - Don't assume there isn't a lookahead just because this state is a
     consistent state with a default action.  There might have been a
     previous inconsistent state, consistent state with a non-default
     action, or user semantic action that manipulated yychar.
   - Of course, the expected token list depends on states to have
     correct lookahead information, and it depends on the parser not
     to perform extra reductions after fetching a lookahead from the
     scanner and before detecting a syntax error.  Thus, state merging
     (from LALR or IELR) and default reductions corrupt the expected
     token list.  However, the list is correct for canonical LR with
     one exception: it will still contain any token that will not be
     accepted due to an error action in a later state.
*/
if (yytoken != YYEMPTY)
  {
    int yyn = yypact[*yyssp];
    yyarg[yycount++] = yytname[yytoken];
    if (!yypact_value_is_default (yyn))
      {
        /* Start YYX at -YYN if negative to avoid negative indexes in
           YYCHECK.  In other words, skip the first -YYN actions for
           this state because they are default actions.  */
        int yyxbegin = yyn < 0 ? -yyn : 0;
        /* Stay within bounds of both yycheck and yytname.  */
        int yychecklim = YYLAST - yyn + 1;
        int yyxend = yychecklim < YYNTOKENS ? yychecklim : YYNTOKENS;
        int yyx;

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

```
              if (! (yysize <= yysize1
                   && yysize1 <= YYSTACK_ALLOC_MAXIMUM))
                return 2;
              yysize = yysize1;
            }
          }
      }
  }

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

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

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

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

```
      {
        yyp += yytnamerr (yyp, yyarg[yyi++]);
        yyformat += 2;
      }
    else
      {
        yyp++;
        yyformat++;
      }
 }
 return 0;
}
#endif /* YYERROR_VERBOSE */

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

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

 YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
 YYUSE (yytype);
 YY_IGNORE_MAYBE_UNINITIALIZED_END
}




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

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

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

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

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

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

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

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

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

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

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

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

```
  YYSIZE_T yystacksize;

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

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

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

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

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

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

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

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

yysetstate:
```

```
 *yyssp = yystate;

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

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

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

       yyls = yyls1;
       yyss = yyss1;
       yyvs = yyvs1;
     }
#else /* no yyoverflow */
# ifndef YYSTACK_RELOCATE
     goto yyexhaustedlab;
# else
     /* Extend the stack our own way.  */
     if (YYMAXDEPTH <= yystacksize)
       goto yyexhaustedlab;
     yystacksize *= 2;
     if (YYMAXDEPTH < yystacksize)
       yystacksize = YYMAXDEPTH;

     {
       yytype_int16 *yyss1 = yyss;
       union yyalloc *yyptr =
         (union yyalloc *) YYSTACK_ALLOC (YYSTACK_BYTES (yystacksize));
       if (! yyptr)
         goto yyexhaustedlab;
       YYSTACK_RELOCATE (yyss_alloc, yyss);
```

```
      YYSTACK_RELOCATE (yyvs_alloc, yyvs);
      YYSTACK_RELOCATE (yyls_alloc, yyls);
#  undef YYSTACK_RELOCATE
      if (yyss1 != yyssa)
        YYSTACK_FREE (yyss1);
    }
# endif
#endif /* no yyoverflow */

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

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

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

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

 if (yystate == YYFINAL)
   YYACCEPT;

 goto yybackup;

/*-----------.
| yybackup.  |
'-----------*/
yybackup:

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

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

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

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

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

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

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

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

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

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


/*-----------------------------------------------------------.
| yydefault -- do the default action for the current state.  |
'-----------------------------------------------------------*/
```

```
yydefault:
 yyn = yydefact[yystate];
 if (yyn == 0)
   goto yyerrlab;
 goto yyreduce;


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

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

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

 /* Default location.  */
 YYLLOC_DEFAULT (yyloc, (yylsp - yylen), yylen);
 YY_REDUCE_PRINT (yyn);
 switch (yyn)
   {
       case 2:
#line 387 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   { *result = log_expr_node_append_tail((yyvsp[-1].ptr), (yyvsp[0].ptr)); if (yychar != YYEMPTY) {
cfg_lexer_unput_token(lexer, &yylval); } YYACCEPT; }
#line 2942 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

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

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

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

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

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

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

 case 8:
#line 414 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
   {
         GError *error = NULL;
         CHECK_ERROR_GERROR(log_rewrite_subst_compile_pattern(last_rewrite, (yyvsp[-4].cptr), &error),
(yylsp[-4]), error, "error compiling search pattern");
         free((yyvsp[-4].cptr));
         (yyval.ptr) = last_rewrite;
        }
#line 2992 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
   break;

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

```
  break;

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

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

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

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

 case 14:
#line 433 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = last_rewrite; }
#line 3034 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

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

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

        last_rewrite = (LogRewrite *) plugin_parse_config(p, configuration, &(yylsp[0]), NULL);
        free((yyvsp[0].cptr));
        if (!last_rewrite)
```

```
          {
            YYERROR;
          }
         (yyval.ptr) = last_rewrite;
        }
#line 3054 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

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

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

 case 27:
#line 483 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  {
        const gchar *p = (yyvsp[-1].cptr);
        if (p[0] == '$')
          {
            msg_warning("Value references in rewrite rules should not use the '$' prefix, those are only needed in
templates",
                        evt_tag_str("value", (yyvsp[-1].cptr)),
                        NULL);
            p++;
          }
        last_rewrite->value_handle = log_msg_get_value_handle(p);
        CHECK_ERROR(!log_msg_is_handle_macro(last_rewrite->value_handle), (yylsp[-1]), "%s is read-only, it
cannot be changed in rewrite rules", p);
    CHECK_ERROR(log_msg_is_value_name_valid(p), (yylsp[-1]), "%s is not a valid name for a name-value pair,
perhaps a misspelled .SDATA reference?", p);
        free((yyvsp[-1].cptr));
       }
#line 3087 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

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

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

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

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

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

 case 34:
#line 523 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])),
(yyvsp[0].ptr)); }
#line 3124 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

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

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

 case 37:
```

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

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

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

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

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

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

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

 case 42:
```

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

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

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

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

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

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

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

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

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

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

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

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

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

 case 54:
#line 618 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646  */
  { (yyval.ptr) = NULL; }
#line 3261 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
  break;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```
  break;

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

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

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

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

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

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

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

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

```
#line 3563 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646  */
    break;

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


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

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

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

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

  yyn = yyr1[yyn];

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

  goto yynewstate;
```

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

 /* If not already recovering from an error, report this error.  */
 if (!yyerrstatus)
   {
    ++yynerrs;
#if ! YYERROR_VERBOSE
    yyerror (&yylloc, lexer, result, arg, YY_("syntax error"));
#else
# define YYSYNTAX_ERROR yysyntax_error (&yymsg_alloc, &yymsg, \
                                        yyssp, yytoken)
    {
      char const *yymsgp = YY_("syntax error");
      int yysyntax_error_status;
      yysyntax_error_status = YYSYNTAX_ERROR;
      if (yysyntax_error_status == 0)
        yymsgp = yymsg;
      else if (yysyntax_error_status == 1)
        {
          if (yymsg != yymsgbuf)
            YYSTACK_FREE (yymsg);
          yymsg = (char *) YYSTACK_ALLOC (yymsg_alloc);
          if (!yymsg)
            {
              yymsg = yymsgbuf;
              yymsg_alloc = sizeof yymsgbuf;
              yysyntax_error_status = 2;
            }
          else
            {
              yysyntax_error_status = YYSYNTAX_ERROR;
              yymsgp = yymsg;
            }
        }
      yyerror (&yylloc, lexer, result, arg, yymsgp);
      if (yysyntax_error_status == 2)
        goto yyexhaustedlab;
    }
# undef YYSYNTAX_ERROR
#endif
   }
```

```
  yyerror_range[1] = yylloc;

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

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

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


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

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

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

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

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

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

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

YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
*++yyvsp = yylval;
YY_IGNORE_MAYBE_UNINITIALIZED_END

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

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

yystate = yyn;
goto yynewstate;
```

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

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

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

yyreturn:
 if (yychar != YYEMPTY)
   {
     /* Make sure we have latest lookahead translation.  See comments at
        user semantic actions for why this is necessary.  */
     yytoken = YYTRANSLATE (yychar);
     yydestruct ("Cleanup: discarding lookahead",
                 yytoken, &yylval, &yylloc, lexer, result, arg);
   }
 /* Do not reclaim the symbols of the rule whose action triggered
    this YYABORT or YYACCEPT.  */
 YYPOPSTACK (yylen);
 YY_STACK_PRINT (yyss, yyssp);
 while (yyssp != yyss)
   {
     yydestruct ("Cleanup: popping",
                 yystos[*yyssp], yyvsp, yylsp, lexer, result, arg);
     YYPOPSTACK (1);
   }
#ifndef yyoverflow
 if (yyss != yyssa)
   YYSTACK_FREE (yyss);
#endif
```

```
#if YYERROR_VERBOSE
 if (yymsg != yymsgbuf)
   YYSTACK_FREE (yymsg);
#endif
 return yyresult;
}
#line 1048 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1906  */
```

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====

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---

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Version 1.1

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1.191 sysstat 11.4.0

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The of the start-stop-daemon

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

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1.196 tcl 8.6.1

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1.197 tcpdump 4.7.4 :April 10, 2015

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==========

Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in

Kibaale. KCF forwards 100% of the money to the project in
Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated
because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:

Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

1.209 vlan 1.9

1.209.1 Available under license :

The MAC vlan stuff is primarily the work of, and is copy-righted (GPL)
by:

(C) Copyright 2001
Alex Zeffertt, Cambridge Broadband Ltd, ajz@cambridgebroadband.com

However, I (Ben) reworked the MAC-VLAN code extensively, including re-writing
all of the locking code. So, any complaints & bugs should come to me.

--Ben Greear (greearb@candelatech.com)
http://www.candelatech.com/~greear

1.210 wget 1.18

1.210.1 Available under license :

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Version 3, 29 June 2007

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1.213 xmltooling 1.5.3

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1.214 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
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