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1.5 apache 2.4.41

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For the server\util_md5.c component:

/************************************************************************
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* Software Development Group
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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*
For the testbzc 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)
*/

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1.6 kmod 20

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1.10 libdaemon 0.14

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* 
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* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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1.15 iptables 1.4.21

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1.16 python 2.7.15

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

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.. _history-and-license:

*******************
History and License
*******************

History of the software

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

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

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

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Mersenne Twister
-----------------

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

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

The `module` uses the functions, `getaddrinfo`, and
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Floating point exception control
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MD5 message digest algorithm

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L. Peter Deutsch

ghost@aladdin.com
Independent implementation of MD5 (RFC 1321).

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

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

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

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

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-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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*******************
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*******************

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========================

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

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

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

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

Before using, initialize the state by using init\_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

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

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---------------------------------

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

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

The code is derived from the text of the RFC, including the test suite.
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-------------

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1.21 libcap 2.24

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1.23 libusb 1.0

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* /opt/cola/permits/1102738801_1610534739.81/0/multipart-parser-c-master-3.zip/multipart-parser-c-master/multipart_parser.c
* /opt/cola/permits/1102738801_1610534739.81/0/multipart-parser-c-master-3.zip/multipart-parser-c-master/multipart_parser.h

1.25 lxc 2.0.11

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1.26 zlib 1.2.3
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 version 1.1.4, March 11th, 2002

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

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*/
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1.27 apr-util 1.5.4

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1.30 mbed-tls 2.6.0

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1.33 librabbitmq 0.5.3

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support
* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url
* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Grujevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.
* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix `util.selectors._fileobj_to_fd` to accept `long`.
* Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
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6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
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33. George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
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45. Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
46. Jim White <jim@penguin.com> SunOS streams modules
47. Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. Ray Schnitzler <schnitz@unixpress.com> Unixware1 port
50. Michael Shields <shields@tembel.org> USNO clock driver
51. Jon Steinberg <jjs@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. Tomoki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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1.47 keyutils 1.5.9

1.47.1 Available under license:

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1.48 file 5.22

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1.49 pip 9.0.3

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1.50 libpcap 1.7.2

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1.51 ecdsa 0.15

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1.52 paramiko 2.4.1

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Version 2.1, February 1999

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/* 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 */

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

/* Enabling verbose error messages. */
#if defined 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
#endif

# 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,
   LLCONTEXT_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_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_REUSE 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
/* 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, ## __VA_ARGS__, error->message); 
            yyerror(& (token), lexer, NULL, NULL, __buf); 
        } 
        g_clear_error(&error); 
        YYERROR; 
    } 
} while (0)

#define YYMAXDEPTH 20000
#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
    #ifdef YYENABLE_NLS
    # ifndef YY_
#define YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
# define YY_IGNORE_MAYBE_UNINITIALIZED_END
#endif
#if ! defined yyoverflow || YYERROR_VERBOSE
/* The parser invokes alloca or malloc: define the necessary symbols. */
#endif
# ifdef YYSTACK_USE_ALLOCA
    # ifdef __GNUC__
    # define YYSTACK_ALLOC __builtin_alloca
    # elif defined __BUILTIN_VA_ARG_INCR
    # include <alloca.h> /* INFRINGES ON USER NAME SPACE */
    # define YYSTACK_ALLOC __alloca
    # elif defined _MSC_VER
    # include <malloc.h> /* INFRINGES ON USER NAME SPACE */
    # define alloca _alloca
    # else
    # define YYSTACK_ALLOC alloca
    # ifndef _ALLOCA_H
    /* Use EXIT_SUCCESS as a witness for stdlib.h. */
    # ifndef EXIT_SUCCESS
    # define EXIT_SUCCESS 0
    # endif
    # endif
    # endif
    # endif
#endif
#if ! defined YYSTYPE_ALLOCA || YYERROR_VERBOSE
/* From 'standard' C, but converted to C99. On systems that support
   STACK_ALLOC_FUNCTION, that is used instead. */
# 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 */
#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
#define YYMALLOC malloc
#define YYFREE free
#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
{
  yystate_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 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)

#ifndef YYCOPY
#define YYCOPY(Dst, Src, Count) 
  do                                        
  {                                       
    YYSIZE_T yyi;                         
    for (yyi = 0; yyi < (Count); yyi++)  
      (Dst)[yyi] = (Src)[yyi];            
  }                                       
  while (0)
#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,
  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, 153, 154, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 158, 157,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 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, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 155, 2, 156, 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,
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#if YYDEBUG
/* YYRLINE[YYN] -- Source line where rule number YYN was defined. */
static const yytype_uint16 yyrline[] =
};
#endif
"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

#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[] = 
{ 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, 10206, 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 };
#define 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, 10206, 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

/* YYPACT[STATE-NUM] -- Index in YYTABLE of the portion describing STATE-NUM. */
static const yytype_int8 yyact[] = 
{ 0 /* YYPACT[STATE-NUM] -- Index in YYTABLE of the portion describing STATE-NUM. */
static const yytype_int8 yyact[] =
}
-15, -87, -73, -65, -106, -59, -58, -57, 97, 17,
-54, -54, 17, -75, -75, -75, -75, -75, -106, -55,
-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, -75, -75, -106, -106, -106, -106,
-106, -106, -17, -17, 9, -75, 10, -75, 11,
13, -56, -106, -106, -106, -106, -54, -106, -106,
-106, -106, 15, 18, 19, 21, 26, 27, 28, 29,
-106, -56, -106, -26, -106, -85, -85, -85, 22, -75,
-75, -75, -106, 30, 31, 32, 33, -106, -106,
-106, 34, 35, 36, 37, 38, 39, 40, 41,
-85, -53, -85, -85, -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,
/* YYGOTO[NTERM-NUM]. */
static const yytype_int8 yygoto[] =
{
-106, -106, 49, 16, -106, -106, -106, -106, 61, -106,
51, -106, -106, 78, -28, -13, -106, -106, -106,
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[YPACT[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,
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, 155, 153, 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, -1, 154, 154,
  154, 154, 154, 154, 154, 154, 154, 154, 154, 154,
  154, 154, 154, 154, 154, 154, 154, 154, 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, 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, 155, 155, 199,
210, 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, 153, 153, 209, 154, 153, 178,
210, 210, 192, 210, 210, 204, 205, 205, 205, 215,
183, 184, 179, 179, 193, 194, 195, 201, 154,
154, 154, 60, 62, 65, 81, 82, 83, 84, 118,
185, 186, 211, 212, 210, 153, 153, 153, 153,
153, 153, 153, 153, 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, 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, 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, 186, 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, 2,
  0, 1, 2, 4, 4, 4, 4, 4, 4, 4,
4,
0

0,

2,

4,

4,

4,

4,

4,

4,

2,

};

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

goto yyacceptlab
goto yyabortlab
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)
\
{
\

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\


(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

#ifdef 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 += YYPRINTF (yyo, "%d", yylocp->first_line);
    if (0 <= yylocp->first_column)
        res += YYPRINTF (yyo, ".%d", yylocp->first_column);
}
if (0 <= yylocp->last_line)
{
    if (yylocp->first_line < yylocp->last_line)
    {
        res += YYPRINTF (yyo, "-%d", yylocp->last_line);
        if (0 <= end_col)
            res += YYPRINTF (yyo, ".%d", end_col);
    }
    else if (0 <= end_col & & yylocp->first_column < end_col)
        res += YYPRINTF (yyo, "-%d", end_col);
}
return res;
}

#define YY_LOCATION_PRINT(File, Loc)          \
    yy_location_print_ (File, &(Loc))
#define YY_SYMBOL_PRINT(Title, Type, Value, Location)                    \
    do {                                                                      \
        if (yydebug)                                                        \
        {
            YYPRINTF (stderr, "%s ", Title);         \
            yy_symbol_print (stderr,                          \
                Type, Value, Location, lexer, result, arg); \ 
            YYPRINTF (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);
}

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YYPRINTF 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;
  YYPRINTF stderr, "Reducing stack by rule %d (line %lu):n",
    yyrule - 1, yylno);
  /** The symbols being reduced. */
  for (yyi = 0; yyi < yynrhs; yyi++)
  {
    YYPRINTF stderr, "$%d = ", yyi + 1);
    yy_symbol_print stderr,
      yystos[yyssp[yyi + 1 - yynrhs]],
      &yyvsp[(yyi + 1) - (yynrhs)],
      &yylsp[(yyi + 1) - (yynrhs)],
      lexer, result, arg);
  }
/* YYINITDEPTH -- initial size of the parser's stacks. */
#if YYDEBUG
#define YYINITDEPTH 200
#else
#define YYINITDEPTH 10000
#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. */

#if YYDEBUG
#define YYMAXDEPTH 10000
#else
#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;
}
#else
#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 *
#endif
#endif

yystpcpy (char *yydest, const char *yysrc)
char *yyd = yydest;
const char *yys = yysrc;

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

return yyd - 1;
}
#endif
#endif

#ifdef 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';
                    yyn = 0;
                    return yyn;
            }
    }
    return yyn;
}
#endif
if (! yyres)
    return yystrlen (yystr);

return yystpcpy (yyres, yystr) - yyres;

/* 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");

#define 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 != *yformat) != '0')
            if (*yyp == '%' && *yformat[1] == 's' && yyi < yynum)
                { 
                    yyp += yynamerr (yyp, yynum[yyi++]);
                    yformat += 2;
                }
            else
                { 
                    yyp++;
                    yformat++;
                }
        return 0;
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
}

int
yyparse (CfgLexer *lexer, LogExprNode **result, gpointer arg)
{
    /* The lookahead symbol. */
    /* 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);
    YY_INITIAL_VALUE (static YYLTYPE yyloc_default;
    # if defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL
= \{ 1, 1, 1, 1 \}
#endif
;
YYLTYPE yyloc = 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;

yyval = yyval = yyvala;
yyvalp = yyvlp = yyvalsa;
yyvalsp = yyvalsp = yyvalsa;
yystacksize = YYINITDEPTH;

YYDPRINTF ((stderr, "Starting parse
"));
yystate = 0;
yyerrstatus = 0;
yynerrs = 0;
yychar = YYEMPTY; /* Cause a token to be read. */
yylsp[0] = yyloc;
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:
*yyval = yystate;

if (yyval + yystacksize - 1 <= yyssp)
{
/* Get the current used size of the three stacks, in elements. */
YYSIZE_T yysize = yyssp - yynss + 1;
#endif
#endif 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 */
#endif /* no YYSTACK_RELOCATE */
#endif /* no yyoverflow */
#endif /* no yyoverflow */
/* 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);
}
#else /* no yyoverflow */

yyssp = yyss + yysize - 1;
yyvsp = yyvs + yysize - 1;
yyllsp = yylls + yyssize - 1;

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

if (yyss + yystacksize - 1 <= yyllsp)
    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
 looka head token if we need one and don't already have one. */

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

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

/* YYCHAR is either YYEMPTY or YYEOF or a valid looka head 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 (yn < 0 || YYLAST < yyn || yycheck[yyn] != yytoken)
goto yydefault;
yyn = yytable[yyn];
if (yn <= 0)
{
    if (ytable_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. */
ycchar = YYEMPTY;

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

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

yydefault:
    yyn = yydefact[yystate];
if (yn == 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 */
{
The code snippet is part of a larger program that includes handling of rewrite rules in a text processing system. The snippet contains various cases, each dealing with different aspects of processing rewrite rules. For instance, it includes logic for handling value references within rewrite rules, ensuring that names are valid and not read-only. The code also checks for proper handling of templates and source context.

```c
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 'S' 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"); }
```
case 32:
    { cfg_lexer_pop_context(lexer); }

case 33:
    { (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc)); }

case 34:
    { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])), (yyvsp[0].ptr)); }

case 35:
    { (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); }

case 36:
    { (yyval.ptr) = NULL; }

case 37:
    { (yyval.ptr) = (yyvsp[0].ptr); }

case 38:
    { (yyval.ptr) = (yyvsp[0].ptr); }
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, (yyval.ptr), "%s plugin %s not found",
                cfg_lexer_lookup_context_name_by_type(context), (yyvsp[0].cptr));

    last_driver = (LogDriver *) plugin_parse_config(p, configuration, &(yyval.ptr), 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), (yyval.ptr);

(yyval.ptr) = log_expr_node_new_pipe(log_filter_pipe_new(last_filter_expr, configuration), &(yyval.ptr));
}
#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_ERRORWITHOUTMESSAGE(cfg_parser_parse(&parser_expr_parser, lexer, (gpointer *)
&last_parser_expr, NULL), (yyval.ptr));
    (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_ERRORWITHOUTMESSAGE(cfg_parser_parse(&rewrite_expr_parser, lexer, (gpointer *)
&last_rewrite_expr, NULL), (yyval.ptr));
    (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), &(yyval.ptr));
    }
case 52:
    { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])), (yyval.ptr)); }

case 53:
    { (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr),  (yyvsp[0].ptr)); }

case 54:
    { (yyval.ptr) = NULL; }

case 55:
    { (yyval.ptr) = (yyvsp[0].ptr); }

    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;

    break;

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), &(yylsp[0])); }
#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) = (yyval.ptr) ? log_expr_node_new_junction((yyval.ptr), &(yyysp[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((yyval[-2].ptr), (yyval[0].ptr); (yyval.ptr) = (yyval[-2].ptr); }
#line 3383 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
   break;
case 73:
#define 682 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.ptr) = NULL; }
#define 3389 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;

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

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

case 76:
#define 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)); }
#define 3407 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;

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

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

case 79:
#define 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)); } 
#define 3425 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
 break;

case 80:
#define 701 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
 { (yyval.num) = 0; }
#define 3431 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
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.ptr) = g_list_reverse((yyvsp[0].ptr)); }
    #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)); }
case 101:
    { last_host_resolve_options = &last_source_options->host_resolve_options; }

case 103:
    { last_host_resolve_options->use_fqdn = (yyvsp[-1].num); }

case 104:
    { last_host_resolve_options->use_dns = (yyvsp[-1].num); }

case 105:
    { last_host_resolve_options->use_dns_cache = (yyvsp[-1].num); }

case 106:
    { last_host_resolve_options->normalize_hostnames = (yyvsp[-1].num); }

case 107:
    { CHECK_ERROR(log_matcher_options_set_type(last_matcher_options, (yyvsp[-1].cptr)), (yylsp[-1]),
      "unknown matcher type"); free((yyvsp[-1].cptr)); }

case 109:
    { CHECK_ERROR(log_matcher_options_process_flag(last_matcher_options, (yyvsp[-1].cptr)), (yylsp[-1]),
      "unknown matcher flag"); free((yyvsp[-1].cptr)); }

/* User semantic actions sometimes alter yychar, and that requires
 that yytokent be updated with the new translation. We take the
 approach of translating immediately before every use of yytokent.
 One alternative is translating here after every semantic action,
 but that translation would be missed if the semantic action invites
 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);

*++yvysp = yyval;
*++yllsp = 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. */
yytokent = yychar == YYEMPTY ? YYEMPTY : YYTRANSLATE (yychar);

/* If not already recovering from an error, report this error. */
if (!yyerrstatus)


{  
++ynerrs;
#if ! YYERROR_VERBOSE
    yyerror (&yylloc, lexer, result, arg, YY_("syntax error"));
#else
#endif  
#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;
        }
    }
    yysyntax_error (&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",
                ytoken, &yylval, &yylloc, lexer, result, arg);
    yychar = YYEMPTY;
}
}
/* Else will try to reuse lookahead token after shifting the error
token. */
goto yyerrlab1;

/*---------------------------------------------.
 | yyerrorlab -- error raised explicitly by YYERROR. |
'---------------------------------------------*/
yyerrorlab:
/* Pacify compilers like GCC when the user code never invokes
    YYERROR and the label yyerrorlab therefore never appears in user
code. */
if (/*CONSTCOND*/ 0)
goto yyerrorlab;

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

/*-------------------------------------------------------------.
 | yyerrlab1 -- common code for both syntax error and YYERROR. |
'-------------------------------------------------------------*/
yyerrlab1:
    yyerrstatus = 3; /* Each real token shifted decrements this. */
for (;;)
{
    yyn = yypact[yystate];
    if (!yypact_value_is_default (yyn))
    {
ynn += 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;
yydestructor ("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] = yyloc;
/* Using YYLOC 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:
  yynresult = 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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FAQ:
=====

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Version 2.1, February 1999

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1.56 idna 2.7

1.56.1 Available under license:
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```python
import io, sys
```

A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2.6',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'test_suite': 'tests',
    }

    setup(**arguments)

    if __name__ == '__main__':
        main()
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1.57 lvm2 2.02.117
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1.58 ncurses 6.1
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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1.59 colorama 0.3.7

1.59.1 Available under license:

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1.60 certifi 14.05.14
1.60.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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(##) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.61 bash 3.2.57
1.61.1 Available under license :

From specedt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: specedt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
  id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from specedt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
  id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from specedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

"Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF."

"I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?"

Chet Ramey

"-- "The lyf so short, the craft so long to lerne." - Chaucer"

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey
Hi. I snagged some of your bash functions from your home directory on
the FSF machines (naughty, I know), and I was wondering if you'd let
me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
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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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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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QLogic Linux FC-FCoE Driver

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Version 3, 29 June 2007

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

* Based on libdl (dlfcn.c/dlfcn.h) which is
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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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From strings/apr_snprintf.c:

*  *
* cvt - IEEE floating point formatting routines.
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*  *

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1.70 e2fsprogs 1.42.12

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
/*
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+trivial database library - standalone version

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- 
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Theodore Ts'o
23-June-2007

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That's all there is to it!

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

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

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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

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

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# 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)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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* 
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1.76 tdb 1.42.13-3
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.
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Theodore Ts'o
23-June-2007

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

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

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

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

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

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

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

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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.

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

That's all there is to it!

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

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

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Gadi Oxman, August 1995

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c4f2bb5b6,
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.

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<!- $Id$ -->

<!- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
   xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
   xmlns:xi="http://www.w3.org/2001/XInclude"
   xmlns:db="http://docbook.org/ns/docbook">
   <xsl:template name="isc.copyright.format">
     <xsl:param name="text"/>
     <xsl:value-of select="$isc.copyright.leader"/>
     <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
     <xsl:text>&#10;</xsl:text>
     <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
     <xsl:if test="translate($rest, '&#9;&#32;', '')">
       <xsl:call-template name="isc.copyright.format">
         <xsl:with-param name="text" select="$rest"/>
       </xsl:call-template>
     </xsl:if>
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1.79 zlib 1.2.11
Open Source Used in LoRaWAN Interface Module Software 2.3

1.79.1 Available under license:
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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

1.80 bind 9.9.7

1.80.1 Available under license:
Redistribution terms Automated Testing Framework
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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/zi.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c2bb5b6,

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 piostream 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
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