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1.2 acpid 1.0.10

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1.3 acpid 1.0.10 :2.1.el6

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1.4 apache2 2.4.6
1.4.1 Available under license:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict/EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head><!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" />
<link rel="stylesheet" type="text/css" href="./style/css/prettify.css" />
<script src="./style/scripts/prettify.js" type="text/javascript"></script>
</head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
```

```
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/************************************************************************
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* Software Development Group
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* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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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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From strings/apr_strnatcmp.c, include/apr_strings.h:

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* Description: ROMMON ARP processing module. Inherited from PIX Monitor-Mode
* Code base.
*
* This code was originally taken from the NetBSD 1.3.2 distribution.
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* and fixing a lot of bugs.
*
*------------------------------------------------------------------
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1.13 base-passwd 3.5.26

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
<1:-
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-->

<!- $Id: copyright.xsl,v 1.8 2009-07-10 23:47:58 mbox $ -->

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

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
    <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:value-of select="&#10;"/>
        <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>
    </xsl:template>

    <xsl:variable name="isc.copyright.text">
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    </xsl:variable>

    <xsl:variable name="isc.copyright"/>

    <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
        Copyright (C) </xsl:text>
        <xsl:call-template name="isc.copyright.years">
            <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
    </xsl:for-each>
</xsl:stylesheet>
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1.18 bison 2.7.1

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# Update b4_copyright invocations or b4_copyright_years definitions to
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use strict;
use warnings;

my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/^[1-9][0-9]{3}$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
    $this_year = $year + 1900;
}

my $old_re = <<'EOF'
(:(?:^|\n)
#BEFORE
(?:
  b4_copyright\([^]*\])
  m4_(?:push|pop)def\([^]*\)
)
EOF
# AFTER
)
(?:
\s*

\[\s* (?:\d\{4\})(?:;\s*[-])\s* (?\d\{4\} )\s*]
)
)
)
\
EOF
;

while (/($old_re)/gx)
{
  my $start = pos() - length ($1);
  my $b4_copyright_line = $2;
  my $year_lines = $3;
  my $final_year = $4;
  $year_lines .= ');

  # If there was a second argument, it contains years, so update them.
  if ($final_year)
  {
    $b4_copyright_line .= ';
    if ($final_year != $this_year)
    {
      # Update the year.
      $year_lines =~ s/$final_year/$final_year, $this_year/;
    }

    # Normalize all whitespace.
    $year_lines =~ s/s/s+/ /g;

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

    # Compress to intervals.
    $year_lines =~
      s/
        \d\{4\}
      (?:
        (\-|
        (\;
          ((??{
            if    ($2 eq '-') { \d\{4\}'; }
            elsif (!$3)       { $1 + 1;  }
            else              { $3 + 1;  }
          })))
        )+)
      )/
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$1-$3/gx;

# Format within margin.
my $year_lines_new;
my $indent = index ($b4_copyright_line, '[');
--$indent if ($b4_copyright_line =~ m/^\n/);
while (length $year_lines)
{
    my $text_margin = $margin - $indent;
    if (($year_lines =~ s/^(.{1,$text_margin})(?: |$)//)
        || ($year_lines =~ s/^([\S]+)(?: |$)//))
    {
        my $line = "\n" . (' 'x$indent) . $1;
        ++$indent if (!$year_lines_new);
        $year_lines_new .= $line;
    } else
    {
        # Should be unreachable, but we don't want an infinite
        # loop if it can be reached.
        die;
    }
}

# Replace the old invocation. Should never die.
die if (!s/$old_re\G/$b4_copyright_line$year_lines_new/x);

# Prepare for the next search.
pos () = $start + length ($b4_copyright_line$year_lines_new/);

while (/\bb4_copyright\//g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_re;
    pos () = $start;
    $re =~ s/#BEFORE/\G/;
    if (!/$re/x)
    {
        my $line = (substr ($_, 0, $start) =~ s/\n/\n/); + 1;
        print STDERR
            "$ARGV:$line: warning: failed to update a b4_copyright\n"
        } pos () = $end;
    }
while (/\[b4_copyright_years\])/g)
{
  my $start = pos () - length ($1);
  my $end = pos ();
  my $re = $old_re;
  $re =~ s/#AFTER/#G/;
  if (!/$re/x)
  {
    # The substr operation blows away pos (), so restoring pos ()
    # at the end is necessary.
    my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
    print STDERR
      "$ARGV:$line: warning: failed to update a"
        . " b4_copyright_years\n";
  }
  pos () = $end;
}

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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jseward@bzip.org
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jseward@acm.org
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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
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1.30 Coreutils 8.21 :2013-02-14 Pádraig Brady

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

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

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

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

-- Nathan
-----Original Message-----
From: cracklib-devel-bounces@li...
[mailto:cracklib-devel-bounces@li...] On Behalf Of
Mike Frysinger
Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

looks like 2.8.11 is out and marked as "GPL-2" ... releasing
libraries under
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

-Mike

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

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir applications are also GPL-2 which imo is just wrong. it isn't the place of =
library to dictact to application writes what license they should be using.=
thus LGPL-2.1 enters to fill this void.
=2Dmike

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

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > > it was enough to just get it consistent and documented as to what
> > it was
> > > released under. This wasn't actually a license change, just a
> > > clarification of the licensing that was already in place.
> > =20
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> > =20
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isnt the
> > place of a
> > library to dictact to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

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

Cheers,

Nalin

---

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> >> > Seems like the ideal thing here would be for you and the other distro
> >> > maintainers to get together with Alec in a conversation and come to a
> >> > decision as to what licensing scheme y'all want. I haven't really done
> >> > much other than cleaning up the packaging and patches and a small
> >> > bit of
> >> > additional code, so whatever licensing y'all come up with is fine
> >> > by me.
> >>
> >> I am sympathetic. Guys, what do you reckon?
> >>
> >> What I am hearing so far is that LGPL makes sense, since it can be
> >> linked with any code, not just GPL...
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.
looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
-mike

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

-a

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

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

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

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

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

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

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanim-ips.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11cOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE5E69F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> 
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>

Open Source Used In Cisco FXOS Security Module 2.2(x) and Cisco ASA Series 9.8(x)
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

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

Happy now? :-)

-a

1.32 CRC32 1.222

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1.33 cronie 1.4.11 :r0

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*
* @(#)bitstring.h8.1 (Berkeley) 7/19/93
*/

1.34 cryptsetup 1.6.2
1.34.1 Available under license:
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   Version 2, June 1991

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1.39 DHCP 4.2.5

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
  3a0982da308228d796df35f98d7877c5cf2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>
* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
  These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

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

  Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
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### 1.45 dtc 1.4.0

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
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Theodore Ts'o
23-June-2007

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1.48 elfutils 0.155

1.48.1 Available under license:

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1.56 findutils 4.4.2

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

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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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#
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#
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Version 3, 29 June 2007


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/* gmp_version -- version number compiled into the library.


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#include "gmp.h"
#include "gmp-impl.h"

const char * const gmp_version = VERSION;

1.68 gmp 5.1.1 :2013-02-10 Torbjorn Granlund

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*/

1.72 grep 2.14

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### 1.77 icu 51.2 :r0

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```bash
## -*-makefile-*-  
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)  
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## Commands to generate dependency files  
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)  
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code  
SHAREDLIBCFLAGS = -fPIC  
SHAREDLIBCXXFLAGS = -fPIC  
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads  
THREADSCPPFLAGS = -D_REENTRANT  
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path  
LD_RPATH=  
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name  
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options  
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix  
SO = so  
## Non-shared intermediate object suffix  
STATIC_O = ao

## Compilation rules  
%.$(STATIC_O): $(srcdir)/%c  
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<  
%.$(srcdir)/%c  
$(COMPILER.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
```
## Dependency rules

%.d: $(srctdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $<\ \
| sed \"\'s/(^\%\$\%\\.o\[ :\]*/\1.o $@ : /g\" > $@;\ \
[ -s $@ ] || rm -f $@’

%.d: $(srctdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $<\ \
| sed \"\'s/(^\%\$\%\\.o\[ :\]*/\1.o $@ : /g\" > $@;\ \
[ -s $@ ] || rm -f $@’

## Versioned libraries rules

%.SO.$(SO_TARGET_VERSION_MAJOR): %.SO.$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.SO: %.SO.$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {*F}.$(SO).$(SO_TARGET_VERSION) $@

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1.78 igb 5.2.9.4

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1.79 init-ifupdown 1.0

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lib/gssapi/generic/gssapi_err_generic.et
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.
To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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1.125 libusb-compat 0.1.5

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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1.128 libvirt 1.1.2

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Daniel Veillard <veillard@redhat.com>

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1.130 libxau 1.0.8

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1.131 libxcb 1.9.1

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1.132 libxdmcp 1.1.1 :r0
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/*
 * hash.c: chained hash tables
 *
 * Reference: Your favorite introductory book on algorithms
 *
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 */

#define IN_LIBXML
#include "libxml.h"

#include <string.h>
#endif
#ifdef HAVE_STDLIB_H
#include <stdlib.h>
#endif
#ifdef HAVE_TIME_H
#include <time.h>
#endif
#endif

/*
 * Following http://www.ocert.org/advisories/ocert-2011-003.html
 * it seems that having hash randomization might be a good idea
 * when using XML with untrusted data
 */
#else
#define HASH_RANDOMIZATION
#endif
#include <libxml/parser.h>
#include <libxml/hash.h>
#include <libxml/xmlmemory.h>
#include <libxml/xmlerror.h>
#include <libxml/globals.h>

#define MAX_HASH_LEN 8

/** #define DEBUG_GROW */

/* A single entry in the hash table */
typedef struct _xmlHashEntry xmlHashEntry;
typedef xmlHashEntry *xmlHashEntryPtr;
struct _xmlHashEntry {
    struct _xmlHashEntry *next;
    xmlChar *name;
    xmlChar *name2;
    xmlChar *name3;
    void *payload;
    int valid;
};

/* The entire hash table */
struct _xmlHashTable {
    struct _xmlHashEntry *table;
    int size;
    int nbElems;
    xmlDictPtr dict;
#ifdef HASH_RANDOMIZATION
    int random_seed;
#endif
};

/* xmlHashComputeKey: * Calculate the hash key */
static unsigned long xmlHashComputeKey(xmlHashTablePtr table, const xmlChar *name,
                                        const xmlChar *name2, const xmlChar *name3) {
    unsigned long value = 0L;
    char ch;
#ifdef HASH_RANDOMIZATION
    value = table->random_seed;
#endif
    if (name != NULL) {
        value += 30 * (*name);
    }
    while ((ch = *name++) != 0) {
        value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
    }
    if (name2 != NULL) {
        while ((ch = *name2++) != 0) {
            value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
        }
    }
    if (name3 != NULL) {
        while ((ch = *name3++) != 0) {
            value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
        }
    }
    return (value % table->size);
}

static unsigned long
xmlHashComputeQKey(xmlHashTablePtr table,
    const xmlChar *prefix, const xmlChar *name,
    const xmlChar *prefix2, const xmlChar *name2,
    const xmlChar *prefix3, const xmlChar *name3) {
    unsigned long value = 0L;
    char ch;
        #ifdef HASH_RANDOMIZATION
    value = table->random_seed;
#endif
        if (prefix != NULL)
            value += 30 * (*prefix);
        else
            value += 30 * (*name);

        if (prefix != NULL) {
            while ((ch = *prefix++) != 0) {
                value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
            }
            value = value ^ ((value << 5) + (value >> 3) + (unsigned long)':');
        }
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)'\n');
        if (name != NULL) {
            while ((ch = *name++) != 0) {
                value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
            }
        }
if (prefix2 != NULL) {
    while ((ch = *prefix2++) != 0) {
        value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
    }
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)':');
}
if (name2 != NULL) {
    while ((ch = *name2++) != 0) {
        value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
    }
}
if (prefix3 != NULL) {
    while ((ch = *prefix3++) != 0) {
        value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
    }
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)':');
}
if (name3 != NULL) {
    while ((ch = *name3++) != 0) {
        value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
    }
}
return (value % table->size);
}

/**
 * xmlHashCreate:
 * @size: the size of the hash table
 * *
 * Create a new xmlHashTablePtr.
 * *
 * Returns the newly created object, or NULL if an error occured.
 * */
xmlHashTablePtr xmlHashCreate(int size) {
    xmlHashTablePtr table;

    if (size <= 0)
        size = 256;

    table = xmlMalloc(sizeof(xmlHashTable));
    if (table) {
        table->dict = NULL;
        table->size = size;
        table->nbElems = 0;
        table->table = xmlMalloc(size * sizeof(xmlHashEntry));
        if (table->table) {
memset(table->table, 0, size * sizeof(xmlHashEntry));
#ifdef HASH_RANDOMIZATION
    table->random_seed = __xmlRandom();
#endif
return(table);
}
xmlFree(table);
return(NULL);
}

/**
 * xmlHashCreateDict:
 * @size: the size of the hash table
 * @dict: a dictionary to use for the hash
 *
 * Create a new xmlHashTablePtr which will use @dict as the internal dictionary
 *
 * Returns the newly created object, or NULL if an error occured.
 */
xmlHashTablePtr xmlHashCreateDict(int size, xmlDictPtr dict) {
    xmlHashTablePtr table;
    table = xmlHashCreate(size);
    if (table != NULL) {
        table->dict = dict;
        xmlDictReference(dict);
    }
    return(table);
}

/**
 * xmlHashGrow:
 * @table: the hash table
 * @size: the new size of the hash table
 *
 * resize the hash table
 *
 * Returns 0 in case of success, -1 in case of failure
 */
static int xmlHashGrow(xmlHashTablePtr table, int size) {
    unsigned long key;
    int oldsize, i;
    xmlHashEntryPtr iter, next;
    struct _xmlHashEntry *oldtable;
    #ifdef DEBUG_GROW

...
unsigned long nbElem = 0;
#endif

if (table == NULL)
    return(-1);
if (size < 8)
    return(-1);
if (size > 8 * 2048)
    return(-1);

oldsize = table->size;
oldtable = table->table;
if (oldtable == NULL)
    return(-1);

    table->table = xmlMalloc(size * sizeof(xmlHashEntry));
    if (table->table == NULL) {
        table->table = oldtable;
        return(-1);
    }
    memset(table->table, 0, size * sizeof(xmlHashEntry));
    table->size = size;

    /* If the two loops are merged, there would be situations where a new entry needs to allocated and data copied into it from the main table. So instead, we run through the array twice, first copying all the elements in the main array (where we can't get conflicts) and then the rest, so we only free (and don't allocate) */
    for (i = 0; i < oldsize; i++) {
        if (oldtable[i].valid == 0)
            continue;
        key = xmlHashComputeKey(table, oldtable[i].name, oldtable[i].name2, oldtable[i].name3);
        memcpy(&(table->table[key]), &(oldtable[i]), sizeof(xmlHashEntry));
        table->table[key].next = NULL;
    }

    for (i = 0; i < oldsize; i++) {
        iter = oldtable[i].next;
        while (iter) {
            next = iter->next;

            /* * put back the entry in the new table */
            key = xmlHashComputeKey(table, iter->name, iter->name2,
iter->name3);
    if (table->table[key].valid == 0) {
        memcpy(&(table->table[key]), iter, sizeof(xmlHashEntry));
        table->table[key].next = NULL;
        xmlFree(iter);
    } else {
        iter->next = table->table[key].next;
        table->table[key].next = iter;
    }

#ifdef DEBUG_GROW
    nbElem++;
#endif

    iter = next;
}
}

xmlFree(oldtable);

#ifdef DEBUG_GROW
xmlGenericError(xmlGenericErrorContext,
        "xmlHashGrow : from %d to %d, %d elems\n", oldsize, size, nbElem);
#endif

return(0);
}

/**
 * xmlHashFree:
 * @table: the hash table
 * @f:  the deallocator function for items in the hash
 *
 * Free the hash @table and its contents. The userdata is
 * deallocated with @f if provided.
 */
void xmlHashFree(xmlHashTablePtr table, xmlHashDeallocator f) {
    int i;
    xmlHashEntryPtr iter;
    xmlHashEntryPtr next;
    int inside_table = 0;
    int nbElems;

    if (table == NULL)
        return;
    if (table->table) {
        nbElems = table->nbElems;

for(i = 0; (i < table->size) && (nbElems > 0); i++) {
    iter = &(table->table[i]);
    if (iter->valid == 0)
        continue;
    inside_table = 1;
    while (iter) {  
        next = iter->next;
        if ((f != NULL) && (iter->payload != NULL))
            f(iter->payload, iter->name);
        if (table->dict == NULL) {
            if (iter->name)
                xmlFree(iter->name);
            if (iter->name2)
                xmlFree(iter->name2);
            if (iter->name3)
                xmlFree(iter->name3);
        }
        iter->payload = NULL;
        if (!inside_table)
            xmlFree(iter);
        nbElems--;
        inside_table = 0;
        iter = next;
    }
    xmlFree(table->table);
}  
if (table->dict)
    xmlDictFree(table->dict);
xmlFree(table);
}

/**
 * xmlHashAddEntry:
 * @table: the hash table
 * @name: the name of the userdata
 * @userdata: a pointer to the userdata
 *
 * Add the @userdata to the hash @table. This can later be retrieved
 * by using the @name. Duplicate names generate errors.
 *
 * Returns 0 the addition succeeded and -1 in case of error.
 */
int xmlHashAddEntry(xmlHashTablePtr table, const xmlChar *name, void *userdata) {
    return(xmlHashAddEntry3(table, name, NULL, NULL, userdata));
}
/**
* xmlHashAddEntry2:
* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
* @userdata: a pointer to the userdata
*
* Add the @userdata to the hash @table. This can later be retrieved
* by using the (@name, @name2) tuple. Duplicate tuples generate errors.
* 
* Returns 0 the addition succeeded and -1 in case of error.
*/
int
xmlHashAddEntry2(xmlHashTablePtr table, const xmlChar *name,
     const xmlChar *name2, void *userdata) {
    return(xmlHashAddEntry3(table, name, name2, NULL, userdata));
}

/**
* xmlHashUpdateEntry:
* @table: the hash table
* @name: the name of the userdata
* @userdata: a pointer to the userdata
* @f: the deallocator function for replaced item (if any)
*
* Add the @userdata to the hash @table. This can later be retrieved
* by using the @name. Existing entry for this @name will be removed
* and freed with @f if found.
*
* Returns 0 the addition succeeded and -1 in case of error.
*/
int
xmlHashUpdateEntry(xmlHashTablePtr table, const xmlChar *name,
    void *userdata, xmlHashDeallocator f) {
    return(xmlHashUpdateEntry3(table, name, NULL, NULL, userdata, f));
}

/**
* xmlHashUpdateEntry2:
* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
* @userdata: a pointer to the userdata
* @f: the deallocator function for replaced item (if any)
*
* Add the @userdata to the hash @table. This can later be retrieved
* by using the (@name, @name2) tuple. Existing entry for this tuple will
* be removed and freed with @f if found.
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* Returns 0 the addition succeeded and -1 in case of error.
*/

int xmlHashUpdateEntry2(xmlHashTablePtr table, const xmlChar *name, const xmlChar *name2, void *userdata, xmlHashDeallocator f) {
    return(xmlHashUpdateEntry3(table, name, name2, NULL, userdata, f));
}

/**
 * xmlHashLookup:
 * @table: the hash table
 * @name: the name of the userdata
 *
 * Find the userdata specified by the @name.
 *
 * Returns the pointer to the userdata
 */

void * xmlHashLookup(xmlHashTablePtr table, const xmlChar *name) {
    return(xmlHashLookup3(table, name, NULL, NULL));
}

/**
 * xmlHashLookup2:
 * @table: the hash table
 * @name: the name of the userdata
 * @name2: a second name of the userdata
 *
 * Find the userdata specified by the (@name, @name2) tuple.
 *
 * Returns the pointer to the userdata
 */

void * xmlHashLookup2(xmlHashTablePtr table, const xmlChar *name, const xmlChar *name2) {
    return(xmlHashLookup3(table, name, name2, NULL));
}

/**
 * xmlHashQLookup:
 * @table: the hash table
 * @prefix: the prefix of the userdata
 * @name: the name of the userdata
 *
 * Find the userdata specified by the QName @prefix:@name/@name.
 *
void *xmlHashQLookup(xmlHashTablePtr table, const xmlChar *prefix, const xmlChar *name) {
    return(xmlHashQLookup3(table, prefix, name, NULL, NULL, NULL, NULL));
}

/**
 * xmlHashQLookup2:
 * @table: the hash table
 * @prefix: the prefix of the userdata
 * @name: the name of the userdata
 * @prefix2: the second prefix of the userdata
 * @name2: a second name of the userdata
 *
 * Find the userdata specified by the QNames tuple
 *
 * Returns the pointer to the userdata
 */
void *xmlHashQLookup2(xmlHashTablePtr table, const xmlChar *prefix, const xmlChar *name, const xmlChar *prefix2, const xmlChar *name2) {
    return(xmlHashQLookup3(table, prefix, name, prefix2, name2, NULL, NULL));
}

/**
 * xmlHashAddEntry3:
 * @table: the hash table
 * @name: the name of the userdata
 * @name2: a second name of the userdata
 * @name3: a third name of the userdata
 * @userdata: a pointer to the userdata
 *
 * Add the @userdata to the hash @table. This can later be retrieved
 * by using the tuple (@name, @name2, @name3). Duplicate entries generate
 * errors.
 *
 * Returns 0 the addition succeeded and -1 in case of error.
 */
int xmlHashAddEntry3(xmlHashTablePtr table, const xmlChar *name, const xmlChar *name2, const xmlChar *name3, void *userdata) {
    unsigned long key, len = 0;
    xmlHashEntryPtr entry;
    xmlHashEntryPtr insert;
if ((table == NULL) || (name == NULL))
return(-1);

/*
 * If using a dict internalize if needed
 */
if (table->dict) {
    if (!xmlDictOwns(table->dict, name)) {
        name = xmlDictLookup(table->dict, name, -1);
        if (name == NULL)
            return(-1);
    }
    if ((name2 != NULL) && (!xmlDictOwns(table->dict, name2))) {
        name2 = xmlDictLookup(table->dict, name2, -1);
        if (name2 == NULL)
            return(-1);
    }
    if ((name3 != NULL) && (!xmlDictOwns(table->dict, name3))) {
        name3 = xmlDictLookup(table->dict, name3, -1);
        if (name3 == NULL)
            return(-1);
    }
}

/*
 * Check for duplicate and insertion location.
 */
key = xmlHashComputeKey(table, name, name2, name3);
if (table->table[key].valid == 0) {
    insert = NULL;
} else {
    if (table->dict) {
        for (insert = &(table->table[key]); insert->next != NULL; insert = insert->next) {
            if ((insert->name == name) &&
                (insert->name2 == name2) &&
                (insert->name3 == name3))
                return(-1);
            len++;
        }
        if ((insert->name == name) &&
            (insert->name2 == name2) &&
            (insert->name3 == name3))
            return(-1);
    } else {
        for (insert = &(table->table[key]); insert->next != NULL; insert = insert->next) {

```
if ((xmlStrEqual(insert->name, name)) &&
    (xmlStrEqual(insert->name2, name2)) &&
    (xmlStrEqual(insert->name3, name3)))
    return(-1);

len++;

if ((xmlStrEqual(insert->name, name)) &&
    (xmlStrEqual(insert->name2, name2)) &&
    (xmlStrEqual(insert->name3, name3)))
    return(-1);

if (insert == NULL) {
    entry = &(table->table[key]);
} else {
    entry = xmlMalloc(sizeof(xmlHashEntry));
    if (entry == NULL)
        return(-1);  
}

if (table->dict != NULL) {
    entry->name = (xmlChar *) name;
    entry->name2 = (xmlChar *) name2;
    entry->name3 = (xmlChar *) name3;
} else {
    entry->name = xmlStrdup(name);
    entry->name2 = xmlStrdup(name2);
    entry->name3 = xmlStrdup(name3);
}

entry->payload = userdata;
entry->next = NULL;
entry->valid = 1;

if (insert != NULL)
    insert->next = entry;

table->nbElems++;

if (len > MAX_HASH_LEN)
    xmlHashGrow(table, MAX_HASH_LEN * table->size);

return(0);
}  

/**
 * xmlHashUpdateEntry3:  

* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
* @name3: a third name of the userdata
* @userdata: a pointer to the userdata
* @f: the deallocator function for replaced item (if any)
* 
* Add the @userdata to the hash @table. This can later be retrieved
* by using the tuple (@name, @name2, @name3). Existing entry for this tuple
* will be removed and freed with @f if found.
* 
* Returns 0 the addition succeeded and -1 in case of error.
*/

int xmlHashUpdateEntry3(xmlHashTablePtr table, const xmlChar *name,
                        const xmlChar *name2, const xmlChar *name3,
                        void *userdata, xmlHashDeallocator f) {
  unsigned long key;
  xmlHashEntryPtr entry;
  xmlHashEntryPtr insert;

  if ((table == NULL) || name == NULL)
    return(-1);

  /*
  * If using a dict internalize if needed
  */
  if (table->dict) {
    if (!xmlDictOwns(table->dict, name)) {
      name = xmlDictLookup(table->dict, name, -1);
      if (name == NULL)
        return(-1);
    }
    if ((name2 != NULL) && (!xmlDictOwns(table->dict, name2))) {
      name2 = xmlDictLookup(table->dict, name2, -1);
      if (name2 == NULL)
        return(-1);
    }
    if ((name3 != NULL) && (!xmlDictOwns(table->dict, name3))) {
      name3 = xmlDictLookup(table->dict, name3, -1);
      if (name3 == NULL)
        return(-1);
    }
  }

  /*
  * Check for duplicate and insertion location.
  */
key = xmlHashComputeKey(table, name, name2, name3);
if (table->table[key].valid == 0) {
    insert = NULL;
} else {
    if (table ->dict) {
        for (insert = &(table->table[key]); insert->next != NULL;
            insert = insert->next) {
            if ((insert->name == name) &&
                (insert->name2 == name2) &&
                (insert->name3 == name3)) {
                if (f)
                    f(insert->payload, insert->name);
                insert->payload = userdata;
                return(0);
            }
        }
        if ((insert->name == name) &&
            (insert->name2 == name2) &&
            (insert->name3 == name3)) {
            if (f)
                f(insert->payload, insert->name);
            insert->payload = userdata;
            return(0);
        }
    } else {
        for (insert = &(table->table[key]); insert->next != NULL;
            insert = insert->next) {
            if ((xmlStrEqual(insert->name, name)) &&
                (xmlStrEqual(insert->name2, name2)) &&
                (xmlStrEqual(insert->name3, name3))) {
                if (f)
                    f(insert->payload, insert->name);
                insert->payload = userdata;
                return(0);
            }
        }
        if ((xmlStrEqual(insert->name, name)) &&
            (xmlStrEqual(insert->name2, name2)) &&
            (xmlStrEqual(insert->name3, name3))) {
            if (f)
                f(insert->payload, insert->name);
            insert->payload = userdata;
            return(0);
        }
    }
    if (insert == NULL) {
        /* Insert new item */
        /* Insert code here */
    }
}
entry = &(table->table[key]);
} else {
entry = xmlMalloc(sizeof(xmlHashEntry));
if (entry == NULL)
    return(-1);
}

if (table->dict != NULL) {
    entry->name = (xmlChar *) name;
    entry->name2 = (xmlChar *) name2;
    entry->name3 = (xmlChar *) name3;
} else {
    entry->name = xmlStrdup(name);
    entry->name2 = xmlStrdup(name2);
    entry->name3 = xmlStrdup(name3);
}
entry->payload = userdata;
entry->next = NULL;
entry->valid = 1;
table->nbElems++;

if (insert != NULL) {
    insert->next = entry;
}
return(0);

/**
 * xmlHashLookup3:
 * @table: the hash table
 * @name: the name of the userdata
 * @name2: a second name of the userdata
 * @name3: a third name of the userdata
 * @
 * Find the userdata specified by the (@name, @name2, @name3) tuple.
 * *
 * Returns the a pointer to the userdata
 * */
void *
xmlHashLookup3(xmlHashTablePtr table, const xmlChar *name,
               const xmlChar *name2, const xmlChar *name3) {
    unsigned long key;
    xmlHashEntryPtr entry;

    if (table == NULL)
        return(NULL);
    if (name == NULL)
        return(NULL);

    key = xmlHashMakeKey(name, name2, name3);
    entry = table->table[key];

return(NULL);
    key = xmlHashComputeQKey(table, prefix, name, name2, name3);
    if (table->table[key].valid == 0)
return(NULL);
    if (table->dict) {
for (entry = &(table->table[key]); entry != NULL; entry = entry->next) {
    if ((entry->name == name) &&
        (entry->name2 == name2) &&
        (entry->name3 == name3))
return(entry->payload);
    }
for (entry = &(table->table[key]); entry != NULL; entry = entry->next) {
if ((xmlStrEqual(entry->name, name)) &&
    (xmlStrEqual(entry->name2, name2)) &&
    (xmlStrEqual(entry->name3, name3)))
return(entry->payload);
    }
return(NULL);
}

/**
 * xmlHashQLookup3:
 * @table: the hash table
 * @prefix: the prefix of the userdata
 * @name: the name of the userdata
 * @prefix2: the second prefix of the userdata
 * @name2: a second name of the userdata
 * @prefix3: the third prefix of the userdata
 * @name3: a third name of the userdata
 *
 * Find the userdata specified by the (@name, @name2, @name3) tuple.
 *
 * Returns the a pointer to the userdata
 */
void *
xmlHashQLookup3(xmlHashTablePtr table,
    const xmlChar *prefix, const xmlChar *name,
    const xmlChar *prefix2, const xmlChar *name2,
    const xmlChar *prefix3, const xmlChar *name3) {
    unsigned long key;
    xmlHashEntryPtr entry;

    if (table == NULL)
return(NULL);
    if (name == NULL)
return(NULL);
    key = xmlHashComputeQKey(table, prefix, name, prefix2,
name2, prefix3, name3);
    if (table->table[key].valid == 0)
        return(NULL);
    for (entry = &(table->table[key]); entry != NULL; entry = entry->next) {
        if ((xmlStrQEqual(prefix, name, entry->name)) &&
            (xmlStrQEqual(prefix2, name2, entry->name2)) &&
            (xmlStrQEqual(prefix3, name3, entry->name3)))
            return(entry->payload);
    }
    return(NULL);
}

typedef struct {
    xmlHashScanner hashscanner;
    void *data;
} stubData;

static void
stubHashScannerFull (void *payload, void *data, const xmlChar *name,
                     const xmlChar *name2 ATTRIBUTE_UNUSED,
                     const xmlChar *name3 ATTRIBUTE_UNUSED) {
    stubData *stubdata = (stubData *) data;
    stubdata->hashscanner (payload, stubdata->data, (xmlChar *) name);
}

/**
 * xmlHashScan:
 * @table: the hash table
 * @f:  the scanner function for items in the hash
 * @data: extra data passed to f
 *
 * Scan the hash @table and applied @f to each value.
 */

void
xmlHashScan(xmlHashTablePtr table, xmlHashScanner f, void *data) {
    stubData stubdata;
    stubdata.data = data;
    stubdata.hashscanner = f;
    xmlHashScanFull (table, stubHashScannerFull, &stubdata);
}

/**
 * xmlHashScanFull:
 * @table: the hash table
 * @f:  the scanner function for items in the hash
 * @data: extra data passed to f
 *
 * Scan the hash @table and applied @f to each value.
 */
void
xmlHashScanFull(xmlHashTablePtr table, xmlHashScannerFull f, void *data) {
    int i, nb;
    xmlHashEntryPtr iter;
    xmlHashEntryPtr next;

    if (table == NULL)
        return;
    if (f == NULL)
        return;
    if (table->table) {
        for(i = 0; i < table->size; i++) {
            if (table->table[i].valid == 0)
                continue;
            iter = &(table->table[i]);
            while (iter) {
                next = iter->next;
                nb = table->nbElems;
                if ((f != NULL) && (iter->payload != NULL))
                    f(iter->payload, data, iter->name,
                       iter->name2, iter->name3);
                if (nb != table->nbElems) {
                    /* table was modified by the callback, be careful */
                    if (iter == &(table->table[i])) {
                        if (table->table[i].valid == 0)
                            iter = NULL;
                        if (table->table[i].next != next)
                            iter = &(table->table[i]);
                    } else
                        iter = next;
                    iter = next;
                }
            }
        }
    }

/**
 * xmlHashScan3:
 * @table: the hash table
 * @name: the name of the userdata or NULL
 * @name2: a second name of the userdata or NULL
 * @name3: a third name of the userdata or NULL
 * @f: the scanner function for items in the hash
 * @data: extra data passed to f
 */
* Scan the hash @table and applied @f to each value matching
* (@name, @name2, @name3) tuple. If one of the names is null,
* the comparison is considered to match.
*/
void
xmlHashScan3(xmlHashTablePtr table, const xmlChar *name,
const xmlChar *name2, const xmlChar *name3,
xmlHashScanner f, void *data) {
xmlHashScanFull3 (table, name, name2, name3,
(xmlHashScannerFull) f, data);
}

/**
* xmlHashScanFull3:
* @table: the hash table
* @name: the name of the userdata or NULL
* @name2: a second name of the userdata or NULL
* @name3: a third name of the userdata or NULL
* @f: the scanner function for items in the hash
* @data: extra data passed to f
*
* Scan the hash @table and applied @f to each value matching
* (@name, @name2, @name3) tuple. If one of the names is null,
* the comparison is considered to match.
*/
void
xmlHashScanFull3(xmlHashTablePtr table, const xmlChar *name,
const xmlChar *name2, const xmlChar *name3,
xmlHashScannerFull f, void *data) {
int i;
xmlHashEntryPtr iter;
xmHashEntryPtr next;

if (table == NULL)
    return;
if (f == NULL)
    return;

if (table->table) {
    for(i = 0; i < table->size; i++) {
        if (table->table[i].valid == 0)
            continue;
        iter = &(table->table[i]);
        while (iter) {
            next = iter->next;
            if (((name == NULL) || (xmlStrEqual(name, iter->name))) &&
                ((name2 == NULL) || (xmlStrEqual(name2, iter->name2))) &&
                ((name3 == NULL) || (xmlStrEqual(name3, iter->name3))) &&
                f(iter->data, iter))
                continue;
        }
    }
}
(iter->payload != NULL)) {
    f(iter->payload, data, iter->name,
       iter->name2, iter->name3);
}
iter = next;
}
}
}
}

/**
 * xmlHashCopy:
 * @table: the hash table
 * @f:  the copier function for items in the hash
 * * Scan the hash @table and applied @f to each value.
 * * Returns the new table or NULL in case of error.
 */
xmlHashTablePtr
xmlHashCopy(xmlHashTablePtr table, xmlHashCopier f) {
    int i;
    xmlHashEntryPtr iter;
    xmlHashEntryPtr next;
    xmlHashTablePtr ret;

    if (table == NULL)
        return(NULL);
    if (f == NULL)
        return(NULL);
    ret = xmlHashCreate(table->size);
    if (table->table) {
        for(i = 0; i < table->size; i++) {
            if (table->table[i].valid == 0)
                continue;
            iter = &(table->table[i]);
            while (iter) {
                next = iter->next;
                xmlHashAddEntry3(ret, iter->name, iter->name2,
                                 iter->name3, f(iter->payload, iter->name));
                iter = next;
            }
        }
    }
    ret->nbElems = table->nbElems;
    return(ret);
}
/**
 * xmlHashSize:
 * @table: the hash table
 *
 * Query the number of elements installed in the hash @table.
 *
 * Returns the number of elements in the hash table or
 * -1 in case of error
 */
int
xmlHashSize(xmlHashTablePtr table) {
    if (table == NULL)
        return(-1);
    return(table->nbElems);
}

/**
 * xmlHashRemoveEntry:
 * @table: the hash table
 * @name: the name of the userdata
 * @f: the deallocator function for removed item (if any)
 *
 * Find the userdata specified by the @name and remove
 * it from the hash @table. Existing userdata for this tuple will be removed
 * and freed with @f.
 *
 * Returns 0 if the removal succeeded and -1 in case of error or not found.
 */
int
xmlHashRemoveEntry(xmlHashTablePtr table, const xmlChar *name,
                   xmlHashDeallocator f) {
    return(xmlHashRemoveEntry3(table, name, NULL, NULL, f));
}

/**
 * xmlHashRemoveEntry2:
 * @table: the hash table
 * @name: the name of the userdata
 * @name2: a second name of the userdata
 * @f: the deallocator function for removed item (if any)
 *
 * Find the userdata specified by the (@name, @name2) tuple and remove
 * it from the hash @table. Existing userdata for this tuple will be removed
 * and freed with @f.
 *
 * Returns 0 if the removal succeeded and -1 in case of error or not found.
 */
int

xmlHashRemoveEntry2(xmlHashTablePtr table, const xmlChar *name, const xmlChar *name2, xmlHashDeallocator f) {
    return(xmlHashRemoveEntry3(table, name, name2, NULL, f));
}

/**
 * xmlHashRemoveEntry3:
 * @table: the hash table
 * @name: the name of the userdata
 * @name2: a second name of the userdata
 * @name3: a third name of the userdata
 * @f: the deallocator function for removed item (if any)
 *
 * Find the userdata specified by the (@name, @name2, @name3) tuple and remove
 * it from the hash @table. Existing userdata for this tuple will be removed
 * and freed with @f.
 *
 * Returns 0 if the removal succeeded and -1 in case of error or not found.
 */
int xmlHashRemoveEntry3(xmlHashTablePtr table, const xmlChar *name, const xmlChar *name2, const xmlChar *name3, xmlHashDeallocator f) {
    unsigned long key;
    xmlHashEntryPtr entry;
    xmlHashEntryPtr prev = NULL;

    if (table == NULL || name == NULL)
        return(-1);

    key = xmlHashComputeKey(table, name, name2, name3);
    if (table->table[key].valid == 0)
        return(-1);
    else {
        for (entry = &(table->table[key]); entry != NULL; entry = entry->next) {
            if (xmlStrEqual(entry->name, name) &&
                xmlStrEqual(entry->name2, name2) &&
                xmlStrEqual(entry->name3, name3)) {
                if ((f != NULL) && (entry->payload != NULL))
                    f(entry->payload, entry->name);
                entry->payload = NULL;
                if (table->dict == NULL) {
                    if(entry->name)
                        xmlFree(entry->name);
                    if(entry->name2)
                        xmlFree(entry->name2);
                    if(entry->name3)
                        xmlFree(entry->name3);
                }
            }
        }
    }
    return(0);
}
if(prev) {
    prev->next = entry->next;
    xmlFree(entry);
} else {
    if (entry->next == NULL) {
        entry->valid = 0;
    } else {
        entry = entry->next;
        memcpy(&(table->table[key]), entry, sizeof(xmlHashEntry));
        xmlFree(entry);
    }
}

    table->nbElems--;
    return(0);
}
prev = entry;
}
return(-1);
}

define bottom_hash
#include "elfgcchack.h"
/*
 * list.c: lists handling implementation
 *
 * Copyright (C) 2000 Gary Pennington and Daniel Veillard.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
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 * WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND
 * CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER.
 *
 * Author: Gary.Pennington@uk.sun.com
 */

define IN_LIBXML
#include "libxml.h"
/* 
* Type definition are kept internal
*/

struct _xmlLink
{
    struct _xmlLink *next;
    struct _xmlLink *prev;
    void *data;
};

struct _xmlList
{
    xmlLinkPtr sentinel;
    void (*linkDeallocator)(xmlLinkPtr);
    int (*linkCompare)(const void *, const void *);
};

/****************************************************************************
*                                    *
*                Interfaces                *
*                                    *
****************************************************************************/

/**
* xmlLinkDeallocator:
* @l:  a list
* @lk:  a link
*
* Unlink and deallocate @lk from list @l
*/
static void
xmlLinkDeallocator(xmlListPtr l, xmlLinkPtr lk)
{
    (lk->prev)->next = lk->next;
    (lk->next)->prev = lk->prev;
    if(l->linkDeallocator)
        l->linkDeallocator(lk);
    xmlFree(lk);
}

/**
* xmlLinkCompare:
* @data0:  first data
* @data1:  second data
*
* Compares two arbitrary data
static int xmlLinkCompare(const void *data0, const void *data1) {
    if (data0 < data1)
        return (-1);
    else if (data0 == data1)
        return (0);
    return (1);
}

/*
 * xmlListLowerSearch:
 * @l:  a list
 * @data:  a data
 *
 * Search data in the ordered list walking from the beginning
 *
 * Returns the link containing the data or NULL
 */
static xmlLinkPtr xmlListLowerSearch(xmlListPtr l, void *data) {
    xmlLinkPtr lk;

    if (l == NULL)
        return(NULL);
    for(lk = l->sentinel->next;lk != l->sentinel && l->linkCompare(lk->data, data) <0 ;lk = lk->next);
    return lk;
}

/**
 * xmlListHigherSearch:
 * @l:  a list
 * @data:  a data
 *
 * Search data in the ordered list walking backward from the end
 *
 * Returns the link containing the data or NULL
 */
static xmlLinkPtr xmlListHigherSearch(xmlListPtr l, void *data) {
    xmlLinkPtr lk;

    /*
if (l == NULL)
    return(NULL);
for(lk = l->sentinel->prev;lk != l->sentinel && l->linkCompare(lk->data, data) >0 ;lk = lk->prev);
return lk;
}

/**
 * xmlListSearch:
 * @l:  a list
 * @data:  a data
 *
 * Search data in the list
 *
 * Returns the link containing the data or NULL
 */
static xmlLinkPtr
xmlListLinkSearch(xmlListPtr l, void *data)
{
    xmlLinkPtr lk;
    if (l == NULL)
        return(NULL);
    lk = xmlListLowerSearch(l, data);
    if (lk == l->sentinel)
        return NULL;
    else {
        if (l->linkCompare(lk->data, data) ==0)
            return lk;
        return NULL;
    }
}

/**
 * xmlListLinkReverseSearch:
 * @l:  a list
 * @data:  a data
 *
 * Search data in the list processing backward
 *
 * Returns the link containing the data or NULL
 */
static xmlLinkPtr
xmlListLinkReverseSearch(xmlListPtr l, void *data)
{
    xmlLinkPtr lk;
    if (l == NULL)
        return(NULL);
    lk = xmlListHigherSearch(l, data);
    if (lk == l->sentinel)
return NULL;
else {
    if (l->linkCompare(lk->data, data) == 0)
        return lk;
    return NULL;
}
}

/**
 * xmlListCreate:
 * @deallocator: an optional deallocator function
 * @compare: an optional comparison function
 * Create a new list
 * Returns the new list or NULL in case of error
 */
xmlListPtr
xmlListCreate(xmlListDeallocator deallocator, xmlListDataCompare compare)
{
    xmlListPtr l;
    if (NULL == (l = (xmlListPtr)xmlMalloc(sizeof(xmlList)))) {
        xmlGenericError(xmlGenericErrorContext,
            "Cannot initialize memory for list");
        return (NULL);
    }
    /* Initialize the list to NULL */
    memset(l, 0, sizeof(xmlList));
    /* Add the sentinel */
    if (NULL == (l->sentinel = (xmlLinkPtr)xmlMalloc(sizeof(xmlLink)))) {
        xmlGenericError(xmlGenericErrorContext,
            "Cannot initialize memory for sentinel");
        xmlFree(l);
        return (NULL);
    }
    /* Initialize the list to NULL */
    memset(l, 0, sizeof(xmlList));
    /* Add the sentinel */
    if (NULL == (l->sentinel = (xmlLinkPtr)xmlMalloc(sizeof(xmlLink)))) {
        xmlGenericError(xmlGenericErrorContext,
            "Cannot initialize memory for sentinel");
        xmlFree(l);
        return (NULL);
    }
    l->sentinel->next = l->sentinel;
    l->sentinel->prev = l->sentinel;
    l->sentinel->data = NULL;
    /* If there is a link deallocator, use it */
    if (deallocator != NULL)
        l->linkDeallocator = deallocator;
    /* If there is a link comparator, use it */
    if (compare != NULL)
        l->linkCompare = compare;
    else /* Use our own */
        l->linkCompare = xmlLinkCompare;
return l;
}

/**
 * xmlListSearch:
 * @l: a list
 * @data: a search value
 *
 * Search the list for an existing value of @data
 *
 * Returns the value associated to @data or NULL in case of error
 */
void *
xmlListSearch(xmlListPtr l, void *data)
{
    xmlLinkPtr lk;
    if (l == NULL)
        return(NULL);
    lk = xmlListLinkSearch(l, data);
    if (lk)
        return (lk->data);
    return NULL;
}

/**
 * xmlListReverseSearch:
 * @l: a list
 * @data: a search value
 *
 * Search the list in reverse order for an existing value of @data
 *
 * Returns the value associated to @data or NULL in case of error
 */
void *
xmlListReverseSearch(xmlListPtr l, void *data)
{
    xmlLinkPtr lk;
    if (l == NULL)
        return(NULL);
    lk = xmlListLinkReverseSearch(l, data);
    if (lk)
        return (lk->data);
    return NULL;
}

/**
 * xmlListInsert:
 * @l: a list

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int xmlListInsert(xmlListPtr l, void *data)
{
    xmlLinkPtr lkPlace, lkNew;

    if (l == NULL)
        return(1);
    lkPlace = xmlListLowerSearch(l, data);
    /* Add the new link */
    lkNew = (xmlLinkPtr) xmlMalloc(sizeof(xmlLink));
    if (lkNew == NULL) {
        xmlGenericError(xmlGenericErrorContext,
            "Cannot initialize memory for new link");
        return (1);
    }
    lkNew->data = data;
    lkPlace = lkPlace->prev;
    lkNew->next = lkPlace->next;
    (lkPlace->next)->prev = lkNew;
    lkPlace->next = lkNew;
    lkNew->prev = lkPlace;
    return 0;
}

int xmlListAppend(xmlListPtr l, void *data)
{
    xmlLinkPtr lkPlace, lkNew;

    if (l == NULL)
        return(1);
    lkPlace = xmlListHigherSearch(l, data);
    /* Add the new link */
    lkNew = (xmlLinkPtr) xmlMalloc(sizeof(xmlLink));

    if (lkNew == NULL) {
        xmlGenericError(xmlGenericErrorContext,
            "Cannot initialize memory for new link");
        return (1);
    }
    lkNew->data = data;
    lkPlace = lkPlace->prev;
    lkNew->next = lkPlace->next;
    (lkPlace->next)->prev = lkNew;
    lkPlace->next = lkNew;
    lkNew->prev = lkPlace;
    return 0;
}
if (lkNew == NULL) {
    xmlGenericError(xmlGenericErrorContext,
        "Cannot initialize memory for new link");
    return (1);
}
lkNew->data = data;
lkNew->next = lkPlace->next;
(lkPlace->next)->prev = lkNew;
lkPlace->next = lkNew;
lkNew->prev = lkPlace;
return 0;
}

/**
 * xmlListDelete:
 * @l: a list
 *
 * Deletes the list and its associated data
 */
void xmlListDelete(xmlListPtr l)
{
    if (l == NULL)
        return;

    xmlListClear(l);
    xmlFree(l->sentinel);
    xmlFree(l);
}

/**
 * xmlListRemoveFirst:
 * @l: a list
 * @data: list data
 *
 * Remove the first instance associated to data in the list
 *
 * Returns 1 if a deallocation ocurred, or 0 if not found
 */
int xmlListRemoveFirst(xmlListPtr l, void *data)
{
    xmlLinkPtr lk;

    if (l == NULL)
        return(0);
    /*Find the first instance of this data */
    lk = xmlListLinkSearch(l, data);
    if (lk != NULL) {

xmlLinkDeallocator(l, lk);
    return 1;
}
return 0;
}

/**
 * xmlListRemoveLast:
 * @l:  a list
 * @data:  list data
 *
 * Remove the last instance associated to data in the list
 *
 * Returns 1 if a deallocation occured, or 0 if not found
 */
int xmlListRemoveLast(xmlListPtr l, void *data)
{
    xmlLinkPtr lk;

    if (l == NULL)
        return(0);
    /*Find the last instance of this data */
    lk = xmlListLinkReverseSearch(l, data);
    if (lk != NULL) {
        xmlLinkDeallocator(l, lk);
        return 1;
    }
    return 0;
}

/**
 * xmlListRemoveAll:
 * @l:  a list
 * @data:  list data
 *
 * Remove the all instance associated to data in the list
 *
 * Returns the number of deallocation, or 0 if not found
 */
int xmlListRemoveAll(xmlListPtr l, void *data)
{
    int count=0;

    if (l == NULL)
        return(0);
while(xmlListRemoveFirst(l, data))
    count++;
return count;
}

/**
 * xmlListClear:
 * @l: a list
 * Remove the all data in the list
 */
void
xmlListClear(xmlListPtr l)
{
xmlLinkPtr lk;

if (l == NULL)
    return;

lk = l->sentinel->next;
while(lk != l->sentinel) {
    xmlLinkPtr next = lk->next;
    xmlLinkDeallocator(l, lk);
    lk = next;
}
}

/**
 * xmlListEmpty:
 * @l: a list
 * Is the list empty?
 * Returns 1 if the list is empty, 0 if not empty and -1 in case of error
 */
int
xmlListEmpty(xmlListPtr l)
{
if (l == NULL)
    return(-1);
return (l->sentinel->next == l->sentinel);
}

/**
 * xmlListFront:
 * @l: a list
 * Get the first element in the list

* Returns the first element in the list, or NULL */

xmlLinkPtr
xmlListFront(xmlListPtr l)
{
    if (l == NULL)
        return(NULL);
    return (l->sentinel->next);
}

/**
 * xmlListEnd:
 * @l:  a list
 *
 * Get the last element in the list
 *
 * Returns the last element in the list, or NULL */

xmlLinkPtr
xmlListEnd(xmlListPtr l)
{
    if (l == NULL)
        return(NULL);
    return (l->sentinel->prev);
}

/**
 * xmlListSize:
 * @l:  a list
 *
 * Get the number of elements in the list
 *
 * Returns the number of elements in the list or -1 in case of error */

int
xmlListSize(xmlListPtr l)
{
    xmlLinkPtr lk;
    int count=0;

    if (l == NULL)
        return(-1);
    /* TODO: keep a counter in xmlList instead */
    for(lk = l->sentinel->next; lk != l->sentinel; lk = lk->next, count++);
    return count;
}
/**
 * xmlListPopFront:
 * @l: a list
 *
 * Removes the first element in the list
 */
 void
 xmlListPopFront(xmlListPtr l)
 {
  if(!xmlListEmpty(l))
   xmlLinkDeallocator(l, l->sentinel->next);
 }

/**
 * xmlListPopBack:
 * @l: a list
 *
 * Removes the last element in the list
 */
 void
 xmlListPopBack(xmlListPtr l)
 {
  if(!xmlListEmpty(l))
   xmlLinkDeallocator(l, l->sentinel->prev);
 }

/**
 * xmlListPushFront:
 * @l: a list
 * @data: new data
 *
 * add the new data at the beginning of the list
 *
 * Returns 1 if successful, 0 otherwise
 */
 int
 xmlListPushFront(xmlListPtr l, void *data)
 {
  xmlLinkPtr lkPlace, lkNew;

  if (l == NULL)
    return(0);
  lkPlace = l->sentinel;
  /* Add the new link */
  lkNew = (xmlLinkPtr) xmlMalloc(sizeof(xmlLink));
  if (lkNew == NULL) {
    xmlGenericError(xmlGenericErrorContext,
                    "Cannot initialize memory for new link");
    return(0);
  }
  /* Add the new data */
  lkNew->data = data;
  /* Add the new link */
  xmlListPushBack(lkNew); /* Add the new link */
  /* Add the new data */
  lkNew->next = lkPlace->next;
  lkPlace->next = lkNew;
  lkNew->prev = lkPlace;
  return(1);
}
return (0);
}
lkNew->data = data;
lkNew->next = lkPlace->next;
(lkPlace->next)->prev = lkNew;
lkPlace->next = lkNew;
lkNew->prev = lkPlace;
return 1;
}

/**
 * xmlListPushBack:
 * @l:  a list
 * @data:  new data
 *
 * add the new data at the end of the list
 *
 * Returns 1 if successful, 0 otherwise
 */
int xmlListPushBack(xmlListPtr l, void *data)
{
    xmlLinkPtr lkPlace, lkNew;

    if (l == NULL)
        return(0);
    lkPlace = l->sentinel->prev;
    /* Add the new link */
    if (NULL ==(lkNew = (xmlLinkPtr )xmlMalloc(sizeof(xmlLink)))) {
        xmlGenericError(xmlGenericErrorContext,
                        "Cannot initialize memory for new link");
        return (0);
    }
    lkNew->data = data;
lkNew->next = lkPlace->next;
(lkPlace->next)->prev = lkNew;
lkPlace->next = lkNew;
lkNew->prev = lkPlace;
return 1;
}

/**
 * xmlLinkGetData:
 * @lk:  a link
 *
 * See Returns.
 *
 * Returns a pointer to the data referenced from this link

void *
xmlLinkGetData(xmlLinkPtr lk)
{
    if (lk == NULL)
        return(NULL);
    return lk->data;
}

/**
 * xmlListReverse:
 * @l: a list
 *
 * Reverse the order of the elements in the list
 */
void
xmlListReverse(xmlListPtr l)
{
    xmlLinkPtr lk;
    xmlLinkPtr lkPrev;

    if (l == NULL)
        return;
    lkPrev = l->sentinel;
    for (lk = l->sentinel->next; lk != l->sentinel; lk = lk->next) {
        lkPrev->next = lkPrev->prev;
        lkPrev->prev = lk;
        lkPrev = lk;
    }
    /* Fix up the last node */
    lkPrev->next = lkPrev->prev;
    lkPrev->prev = lk;
}

/**
 * xmlListSort:
 * @l: a list
 *
 * Sort all the elements in the list
 */
void
xmlListSort(xmlListPtr l)
{
    xmlListPtr lTemp;
    if (l == NULL)
        return;
    if(xmlListEmpty(l))
return;

/* I think that the real answer is to implement quicksort, the
* alternative is to implement some list copying procedure which
* would be based on a list copy followed by a clear followed by
* an insert. This is slow...
*/

if (NULL ==(lTemp = xmlListDup(l)))
    return;
xmlListClear(l);
xmlListMerge(l, lTemp);
xmlListDelete(lTemp);
return;
}

/**
 * xmlListWalk:
 * @l: a list
 * @walker: a processing function
 * @user: a user parameter passed to the walker function
 *
 * Walk all the element of the first from first to last and
 * apply the walker function to it
 */
void
xmlListWalk(xmlListPtr l, xmlListWalker walker, const void *user) {
    xmlLinkPtr lk;

    if ((l == NULL) || (walker == NULL))
        return;
    for(lk = l->sentinel->next; lk != l->sentinel; lk = lk->next) {
        if((walker(lk->data, user)) == 0)
            break;
    }
}

/**
 * xmlListReverseWalk:
 * @l: a list
 * @walker: a processing function
 * @user: a user parameter passed to the walker function
 *
 * Walk all the element of the list in reverse order and
 * apply the walker function to it
 */
void
xmlListReverseWalk(xmlListPtr l, xmlListWalker walker, const void *user) {
xmlLinkPtr lk;

if ((l == NULL) || (walker == NULL))
    return;
for(lk = l->sentinel->prev; lk != l->sentinel; lk = lk->prev) {
    if ((walker(lk->data, user)) == 0)
        break;
}

/**
 * xmlListMerge:
 * @l1:  the original list
 * @l2:  the new list
 * * include all the elements of the second list in the first one and
 * * clear the second list
 */
void
xmlListMerge(xmlListPtr l1, xmlListPtr l2)
{
    xmlListCopy(l1, l2);
    xmlListClear(l2);
}

/**
 * xmlListDup:
 * @old:  the list
 * * Duplicate the list
 * * Returns a new copy of the list or NULL in case of error
 */
xmlListPtr
xmlListDup(const xmlListPtr old)
{
    xmlListPtr cur;

    if (old == NULL)
        return(NULL);
    /* Hmmmm, how to best deal with allocation issues when copying
     * lists. If there is a de-allocator, should responsibility lie with
     * the new list or the old list. Surely not both. I'll arbitrarily
     * set it to be the old list for the time being whilst I work out
     * the answer
     */
    if (NULL == (cur = xmlListCreate(NULL, old->linkCompare)))
        return (NULL);
if (0 != xmlListCopy(cur, old))
    return NULL;
return cur;
}

/**
 * xmlListCopy:
 * @cur:  the new list
 * @old:  the old list
 *
 * Move all the element from the old list in the new list
 *
 * Returns 0 in case of success 1 in case of error
 */
int
xmlListCopy(xmlListPtr cur, const xmlListPtr old)
{
    /* Walk the old tree and insert the data into the new one */
    xmlLinkPtr lk;

    if ((old == NULL) || (cur == NULL))
        return(1);
    for(lk = old->sentinel->next; lk != old->sentinel; lk = lk->next) {
        if (0 != xmlListInsert(cur, lk->data)) {
            xmlListDelete(cur);
            return (1);
        }
    }
    return (0);
}

/* xmlListUnique() */
/* xmlListSwap */
#define bottom_list
#include "elfgcchack.h"

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/****************************************************************************
 *
 * $Id$
 *
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*
*************************************************************************
*
* A note to trio contributors:
*
* Avoid heap allocation at all costs to ensure that the trio functions
* are async-safe. The exceptions are the printf/fprintf functions, which
* uses fputc, and the asprintf functions and the <alloc> modifier, which
* by design are required to allocate form the heap.
*
************************************************************************/

/*
* TODO:
* - Scan is probably too permissive about its modifiers.
* - C escapes in %[#][] ?
* - Multibyte characters (done for format parsing, except scan groups)
* - Complex numbers? (C99 _Complex)
* - Boolean values? (C99 _Bool)
* - C99 NaN(n-char-sequence) missing. The n-char-sequence can be used
  to print the mantissa, e.g. NaN(0xc000000000000000)
* - Should we support the GNU %a alloc modifier? GNU has an ugly hack
  for %a, because C99 used %a for other purposes. If specified as
  %as or %:a it is interpreted as the alloc modifier, otherwise as
  the C99 hex-float. This means that you cannot scan %as as a hex-float
  immediately followed by an 's'.
* - Scanning of collating symbols.
*/

/*************************************************************************
* Trio include files
*/
#include "triodef.h"
#include "trio.h"
#include "triop.h"
#include "trionan.h"
#if !defined(TRIO_MINIMAL)
 #include "triostr.h"
#endif

/*************************************************************************
* Definitions
*/

*************************************************************************/
#include <math.h>
#include <limits.h>
#include <float.h>
#if (defined(__STDC_ISO_10646__) || defined(MB_LEN_MAX) \
   || defined(USE_MULTIBYTE) || TRIO_WIDECHAR) \
   && !defined(_WIN32_WCE)
#define TRIO_COMPILER_SUPPORTS_MULTIBYTE
#endif
#if !defined(MB_LEN_MAX)
#define MB_LEN_MAX 6
#endif
#endif
#if (defined(TRIO_COMPILER_MSVC) && (_MSC_VER >= 1100)) || defined(TRIO_COMPILER_BCB)
#define TRIO_COMPILER_SUPPORTS_MSVC_INT
#endif
#endif
#if defined(_WIN32_WCE)
#include <wincecompat.h>
#endif
/*************************************************************************
* Generic definitions
*/
#if !(defined(DEBUG) || defined(NDEBUG))
#define NDEBUG
#endif
#include <assert.h>
#include <ctype.h>
#if !defined(TRIO_COMPILER_SUPPORTS_C99)
#define isblank(x) (((x)==32) || ((x)==9))
#endif
#if defined(TRIO_COMPILER_ANCIENT)
#include <varargs.h>
#else
#include <stdarg.h>
#endif
#include <stddef.h>
#ifdef HAVE_ERRNO_H
#include <errno.h>
#endif
#ifndef NULL
#define NULL 0
#endif

#ifndef NULL
#define NIL ((char)0)
#ifndef FALSE
# define FALSE (1 == 0)
# define TRUE (! FALSE)
#endif
#define BOOLEAN_T int

/* mincore() can be used for debugging purposes */
#define VALID(x) (NULL != (x))

#if TRIO_ERRORS
/*
 * Encode the error code and the position. This is decoded
 * with TRIO_ERROR_CODE and TRIO_ERROR_POSITION.
 */
#define TRIO_ERROR_RETURN(x,y) (- ((x) + ((y) << 8)))
#else
#define TRIO_ERROR_RETURN(x,y) (-1)
#endif

typedef unsigned long trio_flags_t;

/***********************************************************/
/* Platform specific definitions */
/***********************************************************/
#if defined(TRIO_PLATFORM_UNIX)
 # include <unistd.h>
 # include <signal.h>
 # include <locale.h>
 # define USE_LOCALE
#endif /* TRIO_PLATFORM_UNIX */
#if defined(TRIO_PLATFORM_VMS)
 # include <unistd.h>
#endif
#if defined(TRIO_PLATFORM_WIN32)
 # if defined(_WIN32_WCE)
 #  include <wincecompat.h>
 # else
 #  include <io.h>
 #  define read _read
 #  define write _write
 # endif
#endif /* TRIO_PLATFORM_WIN32 */

#if TRIO_WIDECHAR
 # if defined(TRIO_COMPILER_SUPPORTS_ISO94)
 #  include <wchar.h>
#endif
# include <wctype.h>
typedef wchar_t trio_wchar_t;
typedef wint_t trio_wint_t;
#else
typedef char trio_wchar_t;
typedef int trio_wint_t;
#endif
#define WCONST(x) L ## x
#define WEOF EOF
#define iswalnum(x) isalnum(x)
#define iswalpha(x) isalpha(x)
#define iswblank(x) isblank(x)
#define iswcntrl(x) iscntrl(x)
#define iswdigit(x) isdigit(x)
#define iswgraph(x) isgraph(x)
#define iswlower(x) islower(x)
#define iswprint(x) isprint(x)
#define iswpunct(x) ispunct(x)
#define iswspace(x) isspace(x)
#define iswupper(x) isupper(x)
#define iswxdigit(x) isxdigit(x)
#endif

/**********************************************************
 * Compiler dependent definitions
 */

/* Support for long long */
#ifndef _cplusplus
#if !defined(USE_LONGLONG)
#elif defined(TRIO_COMPILER_GCC) && !defined(__STRICT_ANSI__)
# define USE_LONGLONG
#elif defined(_LONG_LONG) || defined(_LONGLONG)
# define USE_LONGLONG
# endif
#endif

/* The extra long numbers */
#if defined(USE_LONGLONG)
typedef signed long long int trio_longlong_t;
typedef unsigned long long int trio_ulonglong_t;
#elif defined(TRIO_COMPILER_SUPPORTS_MSVC_INT)
typedef signed __int64 trio_longlong_t;
typedef unsigned __int64 trio_ulonglong_t;
#endif
typedef TRIO_SIGNED long int trio_longlong_t;
typedef unsigned long int trio_ulonglong_t;
#endif

/* Maximal and fixed integer types */
#if defined(TRIO_COMPILER_SUPPORTS_C99)
#include <stdint.h>
typedef intmax_t trio_intmax_t;
typedef uintmax_t trio_uintmax_t;
typedef int8_t trio_int8_t;
typedef int16_t trio_int16_t;
typedef int32_t trio_int32_t;
typedef int64_t trio_int64_t;
#elif defined(TRIO_COMPILER_SUPPORTS_UNIX98)
#include <inttypes.h>
typedef intmax_t trio_intmax_t;
typedef uintmax_t trio_uintmax_t;
typedef int8_t trio_int8_t;
typedef int16_t trio_int16_t;
typedef int32_t trio_int32_t;
typedef int64_t trio_int64_t;
#elif defined(TRIO_COMPILER_SUPPORTS_MSVC_INT)
typedef trio_longlong_t trio_intmax_t;
typedef trio_ulonglong_t trio_uintmax_t;
typedef __int8 trio_int8_t;
typedef __int16 trio_int16_t;
typedef __int32 trio_int32_t;
typedef __int64 trio_int64_t;
#else
typedef trio_longlong_t trio_intmax_t;
typedef trio_ulonglong_t trio_uintmax_t;
#endif

#if defined(TRIO_INT8_T)
typedef TRIO_INT8_T trio_int8_t;
#else
typedef TRIO_SIGNED char trio_int8_t;
#endif

#if defined(TRIO_INT16_T)
typedef TRIO_INT16_T trio_int16_t;
#else
typedef TRIO_SIGNED short trio_int16_t;
#endif

#if defined(TRIO_INT32_T)
typedef TRIO_INT32_T trio_int32_t;
#else
typedef TRIO_SIGNED int trio_int32_t;
#endif

#if defined(TRIO_INT64_T)
typedef TRIO_INT64_T trio_int64_t;
# else
typedef trio_longlong_t trio_int64_t;
# endif
#endif

#if (!defined(TRIO_COMPILER_SUPPORTS_C99) \ || defined(TRIO_COMPILER_SUPPORTS_UNIX01)) \ && !_defined(_WIN32_WCE)
# define floorl(x) floor((double)(x))
# define fmodl(x,y) fmod((double)(x),(double)(y))
# define powl(x,y) pow((double)(x),(double)(y))
#endif

#define TRIO_FABS(x) (((x) < 0.0) ? -(x) : (x))

/*************************************************************************/
/* Internal Definitions                                                   */
/*************************************************************************/

#ifndef DECIMAL_DIG
#define DECIMAL_DIG DBL_DIG
#endif

/* Long double sizes */
#ifndef LDBL_DIG
#define MAX_MANTISSA_DIGITS LDBL_DIG
#define MAX_EXPONENT_DIGITS 4
#define MAX_DOUBLE_DIGITS LDBL_MAX_10_EXP
#else
#define MAX_MANTISSA_DIGITS DECIMAL_DIG
#define MAX_EXPONENT_DIGITS 3
#define MAX_DOUBLE_DIGITS DBL_MAX_10_EXP
#endif

#ifndef TRIO_COMPILER_ANCIENT || !defined(LDBL_DIG)
#define LDBL_DIG DBL_DIG
#define LDBL_MANT_DIG DBL_MANT_DIG
#define LDBL_EPSILON DBL_EPSILON
#endif

/* The maximal number of digits is for base 2 */
#define MAX_CHARS_IN(x) (sizeof(x) * CHAR_BIT)
/* The width of a pointer. The number of bits in a hex digit is 4 */
#define POINTER_WIDTH ((sizeof("0x") - 1) + sizeof(trio_pointer_t) * CHAR_BIT / 4)
/* Infinite and Not-A-Number for floating-point */
define INFINITE_LOWER "inf"
define INFINITE_UPPER "INF"
define LONG_INFINITY_LOWER "infinite"
define LONG_INFINITY_UPPER "INFINITE"
define NAN_LOWER "nan"
define NAN_UPPER "NAN"

#if !defined(HAVE_ISASCII) && !defined(isascii)
# define isascii(x) ((unsigned int)(x) < 128)
#endif

/* Various constants */
enum {
    TYPE_PRINT = 1,
    TYPE_SCAN = 2,
}

/* Flags. FLAGS_LAST must be less than ULONG_MAX */
FLAGS_NEW = 0,
FLAGS_STICKY = 1,
FLAGS_SPACE = 2 * FLAGS_STICKY,
FLAGS_SHOWSIGN = 2 * FLAGS_SPACE,
FLAGS_LEFTADJUST = 2 * FLAGS_SHOWSIGN,
FLAGS_ALTERNATIVE = 2 * FLAGS_LEFTADJUST,
FLAGS_SHORT = 2 * FLAGS_ALTERNATIVE,
FLAGS_SHORTSHORT = 2 * FLAGS_SHORT,
FLAGS_LONG = 2 * FLAGS_SHORTSHORT,
FLAGS_QUAD = 2 * FLAGS_LONG,
FLAGS_LONGDOUBLE = 2 * FLAGS_QUAD,
FLAGS_SIZE_T = 2 * FLAGS_LONGDOUBLE,
FLAGS_PTRDIFFT = 2 * FLAGS_SIZE_T,
FLAGS_INTMAX_T = 2 * FLAGS_PTRDIFFT,
FLAGS_NILPADDING = 2 * FLAGS_INTMAX_T,
FLAGS_UNSIGNED = 2 * FLAGS_NILPADDING,
FLAGS_UPPER = 2 * FLAGS_UNSIGNED,
FLAGS_WIDTH = 2 * FLAGS_UPPER,
FLAGS_WIDTH_PARAMETER = 2 * FLAGS_WIDTH,
FLAGS_PRECISION = 2 * FLAGS_WIDTH_PARAMETER,
FLAGS_PRECISION_PARAMETER = 2 * FLAGS_PRECISION,
FLAGS_BASE = 2 * FLAGS_PRECISION_PARAMETER,
FLAGS_BASE_PARAMETER = 2 * FLAGS_BASE,
FLAGS_FLOAT_E = 2 * FLAGS_BASE_PARAMETER,
FLAGS_FLOAT_G = 2 * FLAGS_FLOAT_E,
FLAGS_QUOTE = 2 * FLAGS_FLOAT_G,
FLAGS_WIDECHAR = 2 * FLAGS_QUOTE,
FLAGS_ALLOC = 2 * FLAGS_WIDECHAR,
FLAGS_IGNORE = 2 * FLAGS_ALLOC,
FLAGS_IGNORE_PARAMETER = 2 * FLAGS_IGNORE,
FLAGS_VARSIZE_PARAMETER = 2 * FLAGS_IGNORE_PARAMETER,
FLAGS_FIXED_SIZE = 2 * FLAGS_VARSIZE_PARAMETER,
FLAGS_LAST = FLAGS_FIXED_SIZE,
/* Reused flags */
FLAGS_EXCLUDE = FLAGS_SHORT,
FLAGS_USER_DEFINED = FLAGS_IGNORE,
FLAGS_ROUNDING = FLAGS_INTMAX_T,
/* Compounded flags */
FLAGS_ALL_VARSIZES = FLAGS_LONG | FLAGS_QUAD | FLAGS_INTMAX_T | FLAGS_PTRDIFF_T | FLAGS_SIZE_T,
FLAGS_ALL_SIZES = FLAGS_ALL_VARSIZES | FLAGS_SHORTSHORT | FLAGS_SHORT,
NO_POSITION = -1,
NO_WIDTH = 0,
NO_PRECISION = -1,
NO_SIZE = -1,
/* Do not change these */
NO_BASE = -1,
MIN_BASE = 2,
MAX_BASE = 36,
BASE_BINARY = 2,
BASE_OCTAL = 8,
BASE_DECIMAL = 10,
BASE_HEX = 16,
/* Maximal number of allowed parameters */
MAX_PARAMETERS = 64,
/* Maximal number of characters in class */
MAX_CHARACTER_CLASS = UCHAR_MAX + 1,
/* Maximal string lengths for user-defined specifiers */
MAX_USER_NAME = 64,
MAX_USER_DATA = 256,
/* Maximal length of locale separator strings */
MAX_LOCALE_SEPARATOR_LENGTH = MB_LEN_MAX,
/* Maximal number of integers in grouping */
MAX_LOCALE_GROUPS = 64,
/* Initial size of asprintf buffer */
DYNAMIC_START_SIZE = 32
};
#define NO_GROUPING ((int)CHAR_MAX)
/* Fundamental formatting parameter types */
#define FORMAT_UNKNOWN   0
#define FORMAT_INT       1
#define FORMAT_DOUBLE    2
#define FORMAT_CHAR      3
#define FORMAT_STRING    4
#define FORMAT_POINTER   5
#define FORMAT_COUNT     6
#define FORMAT_PARAMETER 7
#define FORMAT_GROUP     8
#if TRIO_GNU
#define FORMAT_ERRNO    9
#endif
#if TRIO_EXTENSION
#define FORMAT_USER_DEFINED 10
#endif

/* Character constants */
#define CHAR_IDENTIFIER '%'
#define CHAR_BACKSLASH '\'
#define CHAR_QUOTE '"'
#define CHAR_ADJUST ' '  

/* Character class expressions */
#define CLASS_ALNUM "[:alnum:]"
#define CLASS_ALPHA "[:alpha:]"
#define CLASS_BLANK "[:blank:]"
#define CLASS_CNTRL "[:cntrl:]"
#define CLASS_DIGIT "[:digit:]"
#define CLASS_GRAPH "[:graph:]"
#define CLASSLOWER "[:lower:]"
#define CLASS_PRINT "[:print:]"
#define CLASS_PUNCT "[:punct:]"
#define CLASS_SPACE "[:space:]"
#define CLASS_UPPER "[:upper:]"
#define CLASS_XDIGIT "[:xdigit:]"

/* SPECIFIERS: */
*/
*a Hex-float
*A Hex-float
*c Character
*C Widechar character (wint_t)
*d Decimal
*e Float
*E Float
*f Float
* F  Float
* g  Float
* G  Float
* i  Integer
* m  Error message
* n  Count
* o  Octal
* p  Pointer
* s  String
* S  Widechar string (wchar_t *)
* u  Unsigned
* x  Hex
* X  Hex
* []  Group
* <>  User-defined
*
* Reserved:
*
* D  Binary Coded Decimal %D(length,precision) (OS/390)
*/
#define SPECIFIER_CHAR 'c'
declare SPECIFIER_STRING 's'
define SPECIFIER_DECIMAL 'd'
define SPECIFIER_INTEGER 'i'
define SPECIFIER_UNSIGNED 'u'
define SPECIFIER_OCTAL 'o'
define SPECIFIER_HEX 'x'
define SPECIFIER_HEX_UPPER 'X'
define SPECIFIER_FLOAT_E 'e'
define SPECIFIER_FLOAT_E_UPPER 'E'
define SPECIFIER_FLOAT_F 'f'
define SPECIFIER_FLOAT_F_UPPER 'F'
define SPECIFIER_FLOAT_G 'g'
define SPECIFIER_FLOAT_G_UPPER 'G'
define SPECIFIER_POINTER 'p'
define SPECIFIER_GROUP '['
define SPECIFIER_UNGROUP ']'
define SPECIFIER_COUNT 'n'
#if TRIO_UNIX98
#define SPECIFIER_CHAR_UPPER 'C'
define SPECIFIER_STRING_UPPER 'S'
#endif
#if TRIO_C99
#define SPECIFIER_HEXFLOAT 'a'
define SPECIFIER_HEXFLOAT_UPPER 'A'
#endif
#if TRIO_GNU
#define SPECIFIER_ERRNO 'm'
#endif
#endif
#if TRIO_EXTENSION
#define SPECIFIER_BINARY 'b'
#define SPECIFIER_BINARY_UPPER 'B'
#define SPECIFIER_USER_DEFINED_BEGIN '<'
#define SPECIFIER_USER_DEFINED_END '>
#define SPECIFIER_USER_DEFINED_SEPARATOR ':'
#endif

/*
 * QUALIFIERS:
 *
 *
 * Numbers = d,i,o,u,x,X
 * Float = a,A,e,E,f,F,g,G
 * String = s
 * Char = c
 *
 *
 * 9$ Position
 * Use the 9th parameter. 9 can be any number between 1 and
 * the maximal argument
 *
 * 9 Width
 * Set width to 9. 9 can be any number, but must not be postfixed
 * by 'S'
 *
 * h Short
 * Numbers:
 * (unsigned) short int
 *
 * hh Short short
 * Numbers:
 * (unsigned) char
 *
 * l Long
 * Numbers:
 * (unsigned) long int
 * String:
 * as the S specifier
 * Char:
 * as the C specifier
 *
 * ll Long Long
 * Numbers:
 * (unsigned) long long int
 *
 * L Long Double
 */
* Float
*  long double
*
* # Alternative
* Float:
*  Decimal-point is always present
* String:
*  non-printable characters are handled as \\number
*
* Spacing
* *
* + Sign
* *
*  Alignment
* *
* . Precision
* *
*  Parameter
*  print: use parameter
*  scan: no parameter (ignore)
* *
* q Quad
* *
* Z size_t
* *
* w Widechar
* *
*  Thousands/quote
*  Numbers:
*   Integer part grouped in thousands
*  Binary numbers:
*   Number grouped in nibbles (4 bits)
*  String:
*   Quoted string
*
* j intmax_t
* t prtdiff_t
* z size_t
* *
*  Sticky
* @ Parameter (for both print and scan)
* *
* I n-bit Integer
*  Numbers:
*   The following options exists
*   I8 = 8-bit integer
*   I16 = 16-bit integer
*   I32 = 32-bit integer
I64 = 64-bit integer

#define QUALIFIER_POSITION '$'
#define QUALIFIER_SHORT 'h'
#define QUALIFIER_LONG 'l'
#define QUALIFIER_LONG_UPPER 'L'
#define QUALIFIER_ALTERNATIVE '#'
#define QUALIFIER_SPACE ' ' 
#define QUALIFIER_PLUS '+'
#define QUALIFIER_MINUS '-'
#define QUALIFIER_DOT '.'
#define QUALIFIER_STAR '*'
#define QUALIFIER_CIRCUMFLEX '^' /* For scanlists */
#endif TRIO_C99
#define QUALIFIER_SIZE_T 'z'
#define QUALIFIER_PTRDIFF_T 't'
#define QUALIFIER_INTMAX_T 'j'
#endif TRIO_BSD || TRIO_GNU
#define QUALIFIER_QUAD 'q'
#endif TRIO_GNU
#define QUALIFIER_SIZE_T_UPPER 'Z'
#endif TRIO_MISC
#define QUALIFIER_WIDECHAR 'w'
#endif TRIO_MICROSOFT
#define QUALIFIER_FIXED_SIZE 'I'
#endif TRIO_EXTENSION
#define QUALIFIER_QUOTE '\'
#define QUALIFIER_STICKY '!' 
#define QUALIFIER_VARSIZE '&' /* This should remain undocumented */
#define QUALIFIER_PARAM '@' /* Experimental */
#define QUALIFIER_COLON ':' /* For scanlists */
#define QUALIFIER_EQUAL '=' /* For scanlists */
#define QUALIFIER_ROUNDING_UPPER 'R'
#endif

/*************************************************************************
 * Internal Structures
 */

 Open Source Used In Cisco FXOS Security Module 2.2(x) and Cisco ASA Series 9.8(x)
 1275
typedef struct {
    /* An indication of which entry in the data union is used */
    int type;
    /* The flags */
    trio_flags_t flags;
    /* The width qualifier */
    int width;
    /* The precision qualifier */
    int precision;
    /* The base qualifier */
    int base;
    /* The size for the variable size qualifier */
    int varsize;
    /* The marker of the end of the specifier */
    int indexAfterSpecifier;
    /* The data from the argument list */
    union {
        char *string;
        #if TRIO_WIDECHAR
            trio_wchar_t *wstring;
        #endif
        trio_pointer_t pointer;
        union {
            trio_intmax_t as_signed;
            trio_uintmax_t as_unsigned;
        } number;
        double doubleNumber;
        double *doublePointer;
        trio_long_double_t longdoubleNumber;
        trio_long_double_t *longdoublePointer;
        int errorNumber;
    } data;
    /* For the user-defined specifier */
    char user_name[MAX_USER_NAME];
    char user_data[MAX_USER_DATA];
} trio_parameter_t;

/* Container for customized functions */
typedef struct {
    union {
        trio_outstream_t out;
        trio_instream_t in;
    } stream;
    trio_pointer_t closure;
} trio_custom_t;

/* General trio "class" */
typedef struct _trio_class_t {

/*
 * The function to write characters to a stream.
 */
void (*OutStream) TRIO_PROTO((struct _trio_class_t *, int));
/
/*
 * The function to read characters from a stream.
 */
void (*InStream) TRIO_PROTO((struct _trio_class_t *, int *));
/
/*
 * The current location in the stream.
 */
trio_pointer_t location;
/
/*
 * The character currently being processed.
 */
int current;
/
/*
 * The number of characters that would have been written/read
 * if there had been sufficient space.
 */
int processed;
/
/*
 * The number of characters that are actually written/read.
 * Processed and committed will only differ for the *nprintf
 * and *nscanf functions.
 */
int committed;
/
/*
 * The upper limit of characters that may be written/read.
 */
int max;
/
/*
 * The last output error that was detected.
 */
int error;
] trio_class_t;
/
/* References (for user-defined callbacks) */
typedef struct _trio_reference_t {
    trio_class_t *data;
    trio_parameter_t *parameter;
} trio_reference_t;
/
/* Registered entries (for user-defined callbacks) */
typedef struct _trio_userdef_t {
    struct _trio_userdef_t *next;
    trio_callback_t callback;
    char *name;
} trio_userdef_t;
static TRIO_CONST char rcsid[] = "@(#)$Id$;"

/*
 * Need this to workaround a parser bug in HP C/iX compiler that fails
 * to resolves macro definitions that includes type 'long double',
 * e.g: va_arg(arg_ptr, long double)
 */
#if defined(TRIO_PLATFORM_MPEIX)
static TRIO_CONST trio_long_double_t ___dummy_long_double = 0;
#endif

static TRIO_CONST char internalNullString[] = "(nil)";

#if defined(USE_LOCALE)
static struct lconv *internalLocaleValues = NULL;
#endif

/*
 * UNIX98 says "in a locale where the radix character is not defined,
 * the radix character defaults to a period (.)"
 */
static int internalDecimalPointLength = 1;
static int internalThousandSeparatorLength = 1;
static char internalDecimalPoint = ';
static char internalDecimalPointString[MAX_LOCALE_SEPARATOR_LENGTH + 1] = ";";
static char internalThousandSeparator[MAX_LOCALE_SEPARATOR_LENGTH + 1] = ",";
static char internalGrouping[MAX_LOCALE_GROUPS] = { (char)NO_GROUPING };

static TRIO_CONST char internalDigitsLower[] = "0123456789abcdefghijklmnopqrstuvwxyz";
static TRIO_CONST char internalDigitsUpper[] = "0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ";
static BOOLEAN_T internalDigitsUnconverted = TRUE;
static int internalDigitArray[128];
#if TRIO_EXTENSION
static BOOLEAN_T internalCollationUnconverted = TRUE;
static char internalCollationArray[MAX_CHARACTER_CLASS][MAX_CHARACTER_CLASS];
#endif

#if TRIO_EXTENSION
static TRIO_VOLATILE trio_callback_t internalEnterCriticalRegion = NULL;
static TRIO_VOLATILE trio_callback_t internalLeaveCriticalRegion = NULL;

static trio_userdef_t *internalUserDef = NULL;
#endif

/*************************************************************************
 *
 * Internal Functions
 *
 *************************************************************************/
#if defined(TRIO_MINIMAL)
#define TRIO_STRING_PUBLIC static
#include "triostr.c"
#endif /* defined(TRIO_MINIMAL ) */

/*************************************************************************
 *
 * TrioIsQualifier
 *
 * Description:
 * Remember to add all new qualifiers to this function.
 * QUALIFIER_POSITION must not be added.
 *
 */
TRIO_PRIVATE BOOLEAN_T
TrioIsQualifier
TRIO_ARGS1((character),
    TRIO_CONST char character)
{
    /* QUALIFIER_POSITION is not included */
    switch (character)
    {
    case '0': case '1': case '2': case '3': case '4':
      case '5': case '6': case '7': case '8': case '9':
      case QUALIFIER_PLUS:
      case QUALIFIER_MINUS:
      case QUALIFIER_SPACE:
      case QUALIFIER_DOT:
      case QUALIFIER_STAR:
      case QUALIFIER_ALTERNATIVE:
      case QUALIFIER_SHORT:
      case QUALIFIER_LONG:
      case QUALIFIER_LONG_UPPER:
      case QUALIFIER_CIRCUMFLEX:
#if defined(QUALIFIER_SIZE_T)
      case QUALIFIER_SIZE_T:
#endif
#if defined(QUALIFIER_PTRDIFF_T)
      case QUALIFIER_PTRDIFF_T:
#endif
}
#if defined(QUALIFIER_INTMAX_T)
    case QUALIFIER_INTMAX_T:
#endif
#if defined(QUALIFIER_QUAD)
    case QUALIFIER_QUAD:
#endif
#if defined(QUALIFIER_SIZE_T_UPPER)
    case QUALIFIER_SIZE_T_UPPER:
#endif
#if defined(QUALIFIER_WIDECHAR)
    case QUALIFIER_WIDECHAR:
#endif
#if defined(QUALIFIER_QUOTE)
    case QUALIFIER_QUOTE:
#endif
#if defined(QUALIFIER_STICKY)
    case QUALIFIER_STICKY:
#endif
#if defined(QUALIFIER_VARSIZE)
    case QUALIFIER_VARSIZE:
#endif
#if defined(QUALIFIER_PARAM)
    case QUALIFIER_PARAM:
#endif
#if defined(QUALIFIER_FIXED_SIZE)
    case QUALIFIER_FIXED_SIZE:
#endif
#if defined(QUALIFIER_ROUNDING_UPPER)
    case QUALIFIER_ROUNDING_UPPER:
#endif
    return TRUE;
default:
    return FALSE;
}
}

/**************************************************************************
* TrioSetLocale
*/
#if defined(USE_LOCALE)
TRIO_PRIVATE void
TrioSetLocale(TRIO_NOARGS)
{
    internalLocaleValues = (struct lconv *)localeconv();
    if (internalLocaleValues)
    {
        if ((internalLocaleValues->decimal_point) &&
            (internalLocaleValues->decimal_point[0] != NIL))
        { }
`internalDecimalPointLength = trio_length(internalLocaleValues->decimal_point);
if (internalDecimalPointLength == 1)
{
    internalDecimalPoint = internalLocaleValues->decimal_point[0];
}
else
{
    internalDecimalPoint = NIL;
    trio_copy_max(internalDecimalPointString,
                  sizeof(internalDecimalPointString),
                  internalLocaleValues->decimal_point);
}
`}
if ((internalLocaleValues->thousands_sep) &&
    (internalLocaleValues->thousands_sep[0] != NIL))
{
    trio_copy_max(internalThousandSeparator,
                  sizeof(internalThousandSeparator),
                  internalLocaleValues->thousands_sep);
    internalThousandSeparatorLength = trio_length(internalThousandSeparator);
}
if ((internalLocaleValues->grouping) &&
    (internalLocaleValues->grouping[0] != NIL))
{
    trio_copy_max(internalGrouping,
                  sizeof(internalGrouping),
                  internalLocaleValues->grouping);
}
}
#endif /* defined(USE_LOCALE) */

TRIO_PRIVATE int
TrioCalcThousandSeparatorLength
TRIO_ARGS1((digits),
        int digits)
{
#if TRIO_EXTENSION
int count = 0;
int step = NO_GROUPING;
char *groupingPointer = internalGrouping;

while (digits > 0)
{
    if (*groupingPointer == CHAR_MAX)
    { /* Disable grouping */

    
    
```
break; /* while */
}
else if (*groupingPointer == 0)
{
/* Repeat last group */
if (step == NO_GROUPING)
{
/* Error in locale */
break; /* while */
}
}
else
{
step = *groupingPointer++;
}
if (digits > step)
count += internalThousandSeparatorLength;
digits -= step;
}
return count;
#else
return 0;
#endif

TRIO_PRIVATE BOOLEAN_T
TrioFollowedBySeparator
TRIO_ARGS1((position),
    int position)
{
#if TRIO_EXTENSION
int step = 0;
char *groupingPointer = internalGrouping;

position--;
if (position == 0)
    return FALSE;
while (position > 0)
{
    if (*groupingPointer == CHAR_MAX)
    {
        /* Disable grouping */
        break; /* while */
    }
    else if (*groupingPointer != 0)
    {
        step = *groupingPointer++;
    }
}
if (step == 0)
break;
    position -= step;
}
return (position == 0);
#endif
return FALSE;
#endif

/**************************************************************************
 * TrioGetPosition
 *
 * Get the %n$ position.
 */
TRIO_PRIVATE int
TrioGetPosition
TRIO_ARGS2((format, indexPointer),
    TRIO_CONST char *format,
    int *indexPointer)
{
#if TRIO_UNIX98
    char *tmpformat;
    int number = 0;
    int index = *indexPointer;

    number = (int)trio_to_long(&format[index], &tmpformat, BASE_DECIMAL);
    index = (int)(tmpformat - format);
    if ((number != 0) && (QUALIFIER_POSITION == format[index++]))
    {
        *indexPointer = index;
        /*
         * number is decreased by 1, because n$ starts from 1, whereas
         * the array it is indexing starts from 0.
         */
        return number - 1;
    }
#endif
return NO_POSITION;
}

#if TRIO_EXTENSION
/**************************************************************************
 * TrioFindNamespace
 *
 * Find registered user-defined specifier.
 * The prev argument is used for optimization only.
 */
TRIO_PRIVATE trio_userdef_t *
TrioFindNamespace
TRIO_ARGS2((name, prev),
    TRIO_CONST char *name,
    trio_userdef_t **prev)
{
    trio_userdef_t *def;

    if (internalEnterCriticalRegion)
        (void)internalEnterCriticalRegion(NULL);

    for (def = internalUserDef; def; def = def->next)
    {
        /* Case-sensitive string comparison */
        if (trio_equal_case(def->name, name))
            break;

        if (prev)
            *prev = def;
    }

    if (internalLeaveCriticalRegion)
        (void)internalLeaveCriticalRegion(NULL);

    return def;
}
#endif

/*************************************************************************/
/* TrioPower*/
/* Description:*/
/* Calculate pow(base, exponent), where number and exponent are integers.*/
/**/
TRIO_PRIVATE trio_long_double_t
TrioPower
TRIO_ARGS2((number, exponent),
    int number,
    int exponent)
{
    trio_long_double_t result;

    if (number == 10)
    {
        switch (exponent)
        {
            /* Speed up calculation of common cases */
            case 0:
result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E-1);
break;
case 1:
    result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+0);
    break;
case 2:
    result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+1);
    break;
case 3:
    result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+2);
    break;
case 4:
    result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+3);
    break;
case 5:
    result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+4);
    break;
case 6:
    result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+5);
    break;
case 7:
    result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+6);
    break;
case 8:
    result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+7);
    break;
case 9:
    result = (trio_long_double_t)number * TRIO_SUFFIX_LONG(1E+8);
    break;
default:
    result = powl((trio_long_double_t)number,
    (trio_long_double_t)exponent);
    break;
}
else
{
    return powl((trio_long_double_t)number, (trio_long_double_t)exponent);
}
return result;

/**************************************************************************
* TrioLogarithm
*/
TRIO_PRIVATE double
    TrioLogarithm
    TRIO_ARGS2((number, base),
double number,
int base)
{
    double result;

    if (number <= 0.0)
    {
        /* xIC crashes on log(0) */
        result = (number == 0.0) ? trio_ninf() : trio_nan();
    }
    else
    {
        if (base == 10)
        {
            result = log10(number);
        }
        else
        {
            result = log10(number) / log10((double)base);
        }
    }
    return result;
}

/TRIO_PRIVATE double
TrioLogarithmBase
TRIO_ARGS1((base),
    int base)
{
    switch (base)
    {
        case BASE_BINARY : return 1.0;
        case BASE_OCTAL  : return 3.0;
        case BASE_DECIMAL: return 3.321928094887362345;
        case BASE_HEX    : return 4.0;
        default          : return TrioLogarithm((double)base, 2);
    }
}

/* Description:
  * Parse the format string
  */
TRIO_PRIVATE int
TrioParse
TRIO_ARGS5((type, format, parameters, arglist, argarray),
    int type,
    TRIO_CONST char *format,
    trio_parameter_t *parameters,
    va_list *arglist,
    trio_pointer_t *argarray)
{
    /* Count the number of times a parameter is referenced */
    unsigned short usedEntries[MAX_PARAMETERS];
    /* Parameter counters */
    int parameterPosition;
    int currentParam;
    int maxParam = -1;
    /* Utility variables */
    trio_flags_t flags;
    int width;
    int precision;
    int varsize;
    int base;
    int index; /* Index into formatting string */
    int dots; /* Count number of dots in modifier part */
    BOOLEAN_T positional; /* Does the specifier have a positional? */
    BOOLEAN_T gotSticky = FALSE; /* Are there any sticky modifiers at all? */
    /*
    * indices specifies the order in which the parameters must be
    * read from the va_args (this is necessary to handle positionals)
    */
    int indices[MAX_PARAMETERS];
    int pos = 0;
    /* Various variables */
    char ch;
    #if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
    int charlen;
    #endif
    int save_errno;
    int i = -1;
    int num;
    char *tmpformat;

    /* One and only one of arglist and argarray must be used */
    assert((arglist != NULL) ^ (argarray != NULL));

    /*
    * The 'parameters' array is not initialized, but we need to
    * know which entries we have used.
    */
memset(usedEntries, 0, sizeof(usedEntries));

save_errno = errno;
index = 0;
parameterPosition = 0;
#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
(void)mblen(NULL, 0);
#endif

while (format[index])
{
#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
    if (!isascii(format[index]))
    {
    /*
     * Multibyte characters cannot be legal specifiers or
     * modifiers, so we skip over them.
     */
charlen = mblen(&format[index], MB_LEN_MAX);
index += (charlen > 0) ? charlen : 1;
continue; /* while */
    }
#endif /* TRIO_COMPILER_SUPPORTS_MULTIBYTE */
    if (CHAR_IDENTIFIER == format[index++])
    {
if (CHAR_IDENTIFIER == format[index])
    {
index++;
continue; /* while */
    }
    flags = FLAGS_NEW;
    dots = 0;
    currentParam = TrioGetPosition(format, &index);
    positional = (NO_POSITION != currentParam);
if (!positional)
    {
    /* We have no positional, get the next counter */
    currentParam = parameterPosition;
    } 
    if(currentParam >= MAX_PARAMETERS)
    {
    /* Bail out completely to make the error more obvious */
    return TRIO_ERROR_RETURN(TRIO_ETOOMANY, index);
    }
if (currentParam > maxParam)
    maxParam = currentParam;
/* Default values */
width = NO_WIDTH;
precision = NO_PRECISION;
base = NO_BASE;
varsize = NO_SIZE;

while (TrioIsQualifier(format[index]))
{
    ch = format[index++];

    switch (ch)
    {
    case QUALIFIER_SPACE:
        flags |= FLAGS_SPACE;
        break;
    case QUALIFIER_PLUS:
        flags |= FLAGS_SHOWSIGN;
        break;
    case QUALIFIER_MINUS:
        flags |= FLAGS_LEFTADJUST;
        flags &= ~FLAGS_NILPADDING;
        break;
    case QUALIFIER_ALTERNATIVE:
        flags |= FLAGS_ALTERNATIVE;
        break;
    case QUALIFIER_DOT:
        if (dots == 0) /* Precision */
            { dots++;

            /* Skip if no precision */
            if (QUALIFIER_DOT == format[index])
                break;

            /* After the first dot we have the precision */
            flags |= FLAGS_PRECISION;
            if ((QUALIFIER_STAR == format[index])
                #if defined(QUALIFIER_PARAM)
                    || (QUALIFIER_PARAM == format[index])
                #endif
                #if defined(QUALIFIER_PARAM)
                    || (QUALIFIER_PARAM == format[index])
                #endif
                )
            
            index++;
flags |= FLAGS_PRECISION_PARAMETER;

precision = TrioGetPosition(format, &index);
if (precision == NO_POSITION)
{
    parameterPosition++;
    if (positional)
        precision = parameterPosition;
    else
        
        precision = currentParam;
        currentParam = precision + 1;
}
else
{
    flags |= FLAGS_BASE_PARAMETER;
    base = TrioGetPosition(format, &index);
    if (base == NO_POSITION)
        if (width > maxParam)
            maxParam = precision;
        else if (positional)
            currentParam = precision + 1;
    else
        
        precision = trio_to_long(&format[index],
                                &tmpformat,
                                BASE_DECIMAL);
        index = (int)(tmpformat - format);
    }
else if (dots == 1) /* Base */
{
    dots++;

    /* After the second dot we have the base */
    flags |= FLAGS_BASE;
    if (((QUALIFIER_STAR == format[index])
    #if defined(QUALIFIER_PARAM)
    || (QUALIFIER_PARAM == format[index])
    #endif
    )
    #ifdef(QUALIFIER_PARAM == format[index])
    #endif
    )
    
    index++;
    flags |= FLAGS_BASE_PARAMETER;
    base = TrioGetPosition(format, &index);
    if (base == NO_POSITION)
{  
  parameterPosition++;  
  if (positional)  
    base = parameterPosition;  
  else  
  {  
    base = currentParam;  
    currentParam = base + 1;  
  }  
  }  
else  
{  
  if (!positional)  
    currentParam = base + 1;  
  if (base > maxParam)  
    maxParam = base;  
  }  
if (currentParam > maxParam)  
  maxParam = currentParam;  
}  
else  
{  
  base = trio_to_long(&format[index],  
                     &tmpformat,  
                     BASE_DECIMAL);  
  if (base > MAX_BASE)  
    return TRIO_ERROR_RETURN(TRIO_EINVAL, index);  
  index = (int)(tmpformat - format);  
}  
}  
else  
{  
  return TRIO_ERROR_RETURN(TRIO_EINVAL, index);  
}  
break; /* QUALIFIER_DOT */

#if defined(QUALIFIER_PARAM)  
case QUALIFIER_PARAM:  
type = TYPE_PRINT;  
/* FALLTHROUGH */  
#endif  
case QUALIFIER_STAR:  
/* This has different meanings for print and scan */  
if (TYPE_PRINT == type)  
{  
  /* Read with from parameter */  
  flags |= (FLAGS_WIDTH | FLAGS_WIDTH_PARAMETER);  
  width = TrioGetPosition(format, &index);  
}
if (width == NO_POSITION)
{
    parameterPosition++;
    if (positional)
    {
        width = parameterPosition;
    }
    else
    {
        width = currentParam;
        currentParam = width + 1;
    }
}
else
{
    if (!positional)
    {
        currentParam = width + 1;
    }
    if (width > maxParam)
    {
        maxParam = width;
    }
    if (currentParam > maxParam)
    {
        maxParam = currentParam;
    }
    else
    {
        /* Scan, but do not store result */
        flags |= FLAGS_IGNORE;
    }
}
break; /* QUALIFIER_STAR */

case '0':
    if (! (flags & FLAGS_LEFTADJUST))
    {
        flags |= FLAGS_NILPADDING;
        /* FALLTHROUGH */
    }
    case '1': case '2': case '3': case '4':
    case '5': case '6': case '7': case '8': case '9':
    flags |= FLAGS_WIDTH;
    /* &format[index - 1] is used to "rewind" the read */
    width = trio_to_long(&format[index - 1],
                        &tmpformat,
                        BASE_DECIMAL);
    index = (int)(tmpformat - format);
    break;

    case QUALIFIER_SHORT:
    if (flags & FLAGS_SHORTSHORT)
    {
        return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
    }
else if (flags & FLAGS_SHORT)
    flags |= FLAGS_SHORTSHORT;
else
    flags |= FLAGS_SHORT;
break;

case QUALIFIER_LONG:
    if (flags & FLAGS_QUAD)
        return TRIO_ERROR_RETURN(TRIO EINVAL, index);
    else if (flags & FLAGS_LONG)
        flags |= FLAGS_QUAD;
    else
        flags |= FLAGS_LONG;
    break;

    #if defined(QUALIFIER_SIZE_T)
    case QUALIFIER_SIZE_T:
        flags |= FLAGS_SIZE_T;
        /* Modify flags for later truncation of number */
        if (sizeof(size_t) == sizeof(trio_ulonglong_t))
            flags |= FLAGS_QUAD;
        else if (sizeof(size_t) == sizeof(long))
            flags |= FLAGS_LONG;
        break;
    #endif

    #if defined(QUALIFIER_PTRDIFF_T)
    case QUALIFIER_PTRDIFF_T:
        flags |= FLAGS_PTRDIFF_T;
        if (sizeof(ptrdiff_t) == sizeof(trio_ulonglong_t))
            flags |= FLAGS_QUAD;
        else if (sizeof(ptrdiff_t) == sizeof(long))
            flags |= FLAGS_LONG;
        break;
    #endif

    #if defined(QUALIFIER_INTMAX_T)
    case QUALIFIER_INTMAX_T:
        flags |= FLAGS_INTMAX_T;
        if (sizeof(trio_intmax_t) == sizeof(trio_ulonglong_t))
            flags |= FLAGS_QUAD;
        else if (sizeof(trio_intmax_t) == sizeof(long))
            flags |= FLAGS_LONG;
        break;
    #endif
#endif

#if defined(QUALIFIER_QUAD)
case QUALIFIER_QUAD:
  flags |= FLAGS_QUAD;
  break;
#endif

#if defined(QUALIFIER_FIXED_SIZE)
case QUALIFIER_FIXED_SIZE:
  if (flags & FLAGS_FIXED_SIZE)
    return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
  if (flags & (FLAGS_ALL_SIZES | FLAGS_LONGDOUBLE |
               FLAGS_WIDECHAR | FLAGS_VARSIZE_PARAMETER))
    return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
  if ((format[index] == '6') &&
      (format[index + 1] == '4'))
    
  } else if ((format[index] == '3') &&
             (format[index + 1] == '2'))
    
  } else if ((format[index] == '1') &&
             (format[index + 1] == '6'))
    
  } else if (format[index] == '8')
    
  } else
    return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
  #endif

  flags |= FLAGS_FIXED_SIZE;
  break;
#endif

#if defined(QUALIFIER_WIDECHAR)
case QUALIFIER_WIDECHAR:
    flags |= FLAGS_WIDECHAR;
    break;
#endif

#if defined(QUALIFIER_SIZE_T_UPPER)
case QUALIFIER_SIZE_T_UPPER:
    break;
#endif

#if defined(QUALIFIER_QUOTE)
case QUALIFIER_QUOTE:
    flags |= FLAGS_QUOTE;
    break;
#endif

#if defined(QUALIFIER_STICKY)
case QUALIFIER_STICKY:
    flags |= FLAGS_STICKY;
gotSticky = TRUE;
    break;
#endif

#if defined(QUALIFIER_VARSIZE)
case QUALIFIER_VARSIZE:
    flags |= FLAGS_VARSIZE_PARAMETER;
    parameterPosition++;
    if (positional)
        varsize = parameterPosition;
    else
        { 
            varsize = currentParam;
            currentParam = varsize + 1;
        }
    if (currentParam > maxParam)
        maxParam = currentParam;
    break;
#endif

#if defined(QUALIFIER_ROUNDING_UPPER)
case QUALIFIER_ROUNDING_UPPER:
    flags |= FLAGS_ROUNDING;
    break;
#endif

default:
    /* Bail out completely to make the error more obvious */
    return TRIO_ERROR_RETURN(TRIO EINVAL, index);
if (flags & FLAGS_WIDTH_PARAMETER) {
    usedEntries[width] += 1;
    parameters[pos].type = FORMAT_PARAMETER;
    parameters[pos].flags = 0;
    indices[width] = pos;
    width = pos++;
}
if (flags & FLAGS_PRECISION_PARAMETER) {
    usedEntries[precision] += 1;
    parameters[pos].type = FORMAT_PARAMETER;
    parameters[pos].flags = 0;
    indices[precision] = pos;
    precision = pos++;
}
if (flags & FLAGS_BASE_PARAMETER) {
    usedEntries[base] += 1;
    parameters[pos].type = FORMAT_PARAMETER;
    parameters[pos].flags = 0;
    indices[base] = pos;
    base = pos++;
}
if (flags & FLAGS_VARSIZE_PARAMETER) {
    usedEntries[varsize] += 1;
    parameters[pos].type = FORMAT_PARAMETER;
    parameters[pos].flags = 0;
    indices[varsize] = pos;
    varsize = pos++;
}

indices[currentParam] = pos;

switch (format[index++]) {
    #if defined(SPECIFIER_CHAR_UPPER)
    case SPECIFIER_CHAR_UPPER:
        flags |= FLAGS_WIDECHAR;
        /* FALLTHROUGH */
#endif
    case SPECIFIER_CHAR:
        if (flags & FLAGS_LONG)
            flags |= FLAGS_WIDECHAR;
        else if (flags & FLAGS_SHORT)
            flags &= ~FLAGS_WIDECHAR;
        parameters[pos].type = FORMAT_CHAR;
        break;

    #if defined(SPECIFIER_STRING_UPPER)
        case SPECIFIER_STRING_UPPER:
            flags |= FLAGS_WIDECHAR;
            /* FALLTHROUGH */
    #endif
    case SPECIFIER_STRING:
        if (flags & FLAGS_LONG)
            flags |= FLAGS_WIDECHAR;
        else if (flags & FLAGS_SHORT)
            flags &= ~FLAGS_WIDECHAR;
        parameters[pos].type = FORMAT_STRING;
        break;

    case SPECIFIER_GROUP:
        if (TYPE_SCAN == type)
        {
            int depth = 1;
            parameters[pos].type = FORMAT_GROUP;
            if (format[index] == QUALIFIER_CIRCUMFLEX)
                index++;
            if (format[index] == SPECIFIER_UGROUP)
                index++;
            if (format[index] == QUALIFIER_MINUS)
                index++;
            /* Skip nested brackets */
            while (format[index] != NIL)
            {
                if (format[index] == SPECIFIER_GROUP)
                {
                    depth++;
                }
                else if (format[index] == SPECIFIER_UGROUP)
                {
                    if (--depth <= 0)
                    {
                        index++;
                        break;
                    }
                }
            }
        }
index++;
}
}
break;

case SPECIFIER_INTEGER:
  parameters[pos].type = FORMAT_INT;
  break;

case SPECIFIER_UNSIGNED:
  flags |= FLAGS_UNSIGNED;
  parameters[pos].type = FORMAT_INT;
  break;

case SPECIFIER_DECIMAL:
  /* Disable base modifier */
  flags &= ~FLAGS_BASE_PARAMETER;
  base = BASE_DECIMAL;
  parameters[pos].type = FORMAT_INT;
  break;

case SPECIFIER_OCTAL:
  flags |= FLAGS_UNSIGNED;
  flags &= ~FLAGS_BASE_PARAMETER;
  base = BASE_OCTAL;
  parameters[pos].type = FORMAT_INT;
  break;

#if defined(SPECIFIER_BINARY)
  case SPECIFIER_BINARY_UPPER:
    flags |= FLAGS_UPPER;
    /* FALLTHROUGH */
  case SPECIFIER_BINARY:
    flags |= FLAGS_NILPADDING;
    flags &= ~FLAGS_BASE_PARAMETER;
    base = BASE_BINARY;
    parameters[pos].type = FORMAT_INT;
    break;
#endif

case SPECIFIER_HEX_UPPER:
  flags |= FLAGS_UPPER;
  /* FALLTHROUGH */
case SPECIFIER_HEX:
  flags |= FLAGS_UNSIGNED;
  flags &= ~FLAGS_BASE_PARAMETER;
  base = BASE_HEX;
  parameters[pos].type = FORMAT_INT;
break;

case SPECIFIER_FLOAT_E_UPPER:
    flags |= FLAGS_UPPER;
    /* FALLTHROUGH */
    case SPECIFIER_FLOAT_E:
    flags |= FLAGS_FLOAT_E;
    parameters[pos].type = FORMAT_DOUBLE;
    break;

case SPECIFIER_FLOAT_G_UPPER:
    flags |= FLAGS_UPPER;
    /* FALLTHROUGH */
    case SPECIFIER_FLOAT_G:
    flags |= FLAGS_FLOAT_G;
    parameters[pos].type = FORMAT_DOUBLE;
    break;

case SPECIFIER_FLOAT_F_UPPER:
    flags |= FLAGS_UPPER;
    /* FALLTHROUGH */
    case SPECIFIER_FLOAT_F:
    parameters[pos].type = FORMAT_DOUBLE;
    break;

case SPECIFIER_POINTER:
    if (sizeof(trio_pointer_t) == sizeof(trio_ulonglong_t))
        flags |= FLAGS_QUAD;
    else if (sizeof(trio_pointer_t) == sizeof(long))
        flags |= FLAGS_LONG;
    parameters[pos].type = FORMAT_POINTER;
    break;

case SPECIFIER_COUNT:
    parameters[pos].type = FORMAT_COUNT;
    break;

#if defined(SPECIFIER_HEXFLOAT)
    #if defined(SPECIFIER_HEXFLOAT_UPPER)
    case SPECIFIER_HEXFLOAT_UPPER:
        flags |= FLAGS_UPPER;
        /* FALLTHROUGH */
    #endif
    #endif

    case SPECIFIER_HEXFLOAT:
        base = BASE_HEX;
        parameters[pos].type = FORMAT_DOUBLE;
        break;
#if endif
#if defined(FORMAT_ERRNO)
case SPECIFIER_ERRNO:
    parameters[pos].type = FORMAT_ERRNO;
    break;
#endif

#if defined(SPECIFIER_USER_DEFINED_BEGIN)
case SPECIFIER_USER_DEFINED_BEGIN:
{
    unsigned int max;
    int without_namespace = TRUE;

    parameters[pos].type = FORMAT_USER_DEFINED;
    parameters[pos].user_name[0] = NIL;
    tmpformat = (char *)&format[index];

    while ((ch = format[index]))
    {
        index++;
        if (ch == SPECIFIER_USER_DEFINED_END)
        {
            if (without_namespace)
            {
                /* We must get the handle first */
                parameters[pos].type = FORMAT_PARAMETER;
                parameters[pos].indexAfterSpecifier = index;
                parameters[pos].flags = FLAGS_USER_DEFINED;
                /* Adjust parameters for insertion of new one */
                pos++;
                usedEntries[currentParam] += 1;
                parameters[pos].type = FORMAT_USER_DEFINED;
                currentParam++;
                indices[currentParam] = pos;
                if (currentParam > maxParam)
                    maxParam = currentParam;
            }
            /* Copy the user data */
            max = (unsigned int)(&format[index] - tmpformat);
            if (max > MAX_USER_DATA)
                max = MAX_USER_DATA;
            trio_copy_max(parameters[pos].user_data,
                          max,
                          tmpformat);
            break; /* while */
        }
    }
    if (ch == SPECIFIER_USER_DEFINED_SEPARATOR)
without_namespace = FALSE;
"*/ Copy the namespace for later looking-up */
max = (int)(&format[index] - tmpformat);
if (max > MAX_USER_NAME)
  max = MAX_USER_NAME;
trio_copy_max(parameters[pos].user_name,
    max,
    tmpformat);
tmpformat = (char *)&format[index];
}
}
if (ch != SPECIFIER_USER_DEFINED_END)
  return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
}
break;
#endif /* defined(SPECIFIER_USER_DEFINED_BEGIN) */

default:
  /* Bail out completely to make the error more obvious */
  return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
}

/* Count the number of times this entry has been used */
usedEntries[currentParam] += 1;

/* Find last sticky parameters */
if (gotSticky & & !(flags & FLAGS_STICKY))
  {
    for (i = pos - 1; i >= 0; i--)
      {
        if (parameters[i].type == FORMAT_PARAMETER)
          continue;
        if ((parameters[i].flags & FLAGS_STICKY) & &
          (parameters[i].type == parameters[pos].type))
          {
            /* Do not overwrite current qualifiers */
            flags |= (parameters[i].flags & (unsigned long)~FLAGS_STICKY);
            if (width == NO_WIDTH)
              width = parameters[i].width;
              if (precision == NO_PRECISION)
                precision = parameters[i].precision;
                if (base == NO_BASE)
                  base = parameters[i].base;
                  break;
        }
      }
  }
parameters[pos].indexAfterSpecifier = index;
parameters[pos].flags = flags;
parameters[pos].width = width;
parameters[pos].precision = precision;
parameters[pos].base = (base == NO_BASE) ? BASE_DECIMAL : base;
parameters[pos].varsize = varsize;
pos++;

if (!positional)
    parameterPosition++;

} /* if identifier */

} /* while format characters left */

for (num = 0; num <= maxParam; num++)
{
    if (usedEntries[num] != 1)
    {
        if (usedEntries[num] == 0) /* gap detected */
            return TRIO_ERROR_RETURN(TRIO_EGAP, num);
        else /* double references detected */
            return TRIO_ERROR_RETURN(TRIO_EDBLREF, num);
    }
    i = indices[num];

    /*
     * FORMAT_PARAMETERS are only present if they must be read,
     * so it makes no sense to check the ignore flag (besides,
     * the flags variable is not set for that particular type)
     */
    if ((parameters[i].type != FORMAT_PARAMETER) &&
        (parameters[i].flags & FLAGS_IGNORE))
        continue; /* for all arguments */

    /*
    * The stack arguments are read according to ANSI C89
    * default argument promotions:
    *
    * char     = int
    * short    = int
    * unsigned char = unsigned int
    * unsigned short = unsigned int
    * float    = double
    *
    * In addition to the ANSI C89 these types are read (the
    * default argument promotions of C99 has not been
* considered yet)
*
* long long
* long double
* size_t
* ptrdiff_t
* intmax_t
*
switch (parameters[i].type)
{
case FORMAT_GROUP:
case FORMAT_STRING:
#if TRIO_WIDECHAR
if (flags & FLAGS_WIDECHAR)
{
    parameters[i].data.wstring = (argarray == NULL)
    ? va_arg(*arglist, trio_wchar_t *)
    : (trio_wchar_t *)(argarray[num]);
}
else
#endif
{
    parameters[i].data.string = (argarray == NULL)
    ? va_arg(*arglist, char *)
    : (char *)(argarray[num]);
}
break;

#if defined(FORMAT_USER_DEFINED)
case FORMAT_USER_DEFINED:
#endif

case FORMAT_POINTER:
case FORMAT_COUNT:
case FORMAT_UNKNOWN:
    parameters[i].data.pointer = (argarray == NULL)
    ? va_arg(*arglist, trio_pointer_t )
    : argarray[num];
break;

case FORMAT_CHAR:
case FORMAT_INT:
    if (TYPE_SCAN == type)
    {
        if (argarray == NULL)
            parameters[i].data.pointer =
            (trio_pointer_t)va_arg(*arglist, trio_pointer_t);
        else
            
Open Source Used In Cisco FXOS Security Module 2.2(x) and Cisco ASA Series 9.8(x)
if (parameters[i].type == FORMAT_CHAR)
    parameters[i].data.pointer =
        (trio_pointer_t)((char *)argarray[num]);
else if (parameters[i].flags & FLAGS_SHORT)
    parameters[i].data.pointer =
        (trio_pointer_t)((short *)argarray[num]);
else
    parameters[i].data.pointer =
        (trio_pointer_t)((int *)argarray[num]);
}
else
{
#if defined(QUALIFIER_VARSIZE) || defined(QUALIFIER_FIXED_SIZE)
    if (parameters[i].flags & (FLAGS_VARSIZE_PARAMETER | FLAGS_FIXED_SIZE))
    {
        if (parameters[i].flags & FLAGS_VARSIZE_PARAMETER)
        {
            /* Variable sizes are mapped onto the fixed sizes, in
             * accordance with integer promotion.
             * Please note that this may not be portable, as we
             * only guess the size, not the layout of the numbers.
             * For example, if int is little-endian, and long is
             * big-endian, then this will fail.
             */
            varsize = (int)parameters[parameters[i].varsize].data.number.as_unsigned;
        }
        else
        {
            /* Used for the I<bits> modifiers */
            varsize = parameters[i].varsize;
        }
        parameters[i].flags &= ~FLAGS_ALL_VARSIZES;
    }
    else
    {
        /* Used for the I<bits> modifiers */
        varsize = parameters[i].varsize;
    }
    parameters[i].flags |= ~FLAGS_ALL_VARSIZES;

    if (varsize <= (int)sizeof(int))
        ;
    else if (varsize <= (int)sizeof(long))
        parameters[i].flags |= FLAGS_LONG;
#if defined(QUALIFIER_INTMAX_T)
    else if (varsize <= (int)sizeof(trio_longlong_t))
        parameters[i].flags |= FLAGS_QUAD;
    else
        parameters[i].flags |= FLAGS_INTMAX_T;
#else
    else
        ;
    else
        ;
parameters[i].flags |= FLAGS_QUAD;
#endif
#endif /* defined(QUALIFIER_VARSIZE) */
#if defined(QUALIFIER_SIZE_T) || defined(QUALIFIER_SIZE_T_UPPER)
  if (parameters[i].flags & FLAGS_SIZE_T)
    parameters[i].data.number.as_unsigned = (argarray == NULL)
      ? (trio_uintmax_t)va_arg(*arglist, size_t)
      : (trio_uintmax_t)*((size_t *)argarray[num]);
    else
#endif
#if defined(QUALIFIER_PTRDIFF_T)
  if (parameters[i].flags & FLAGS_PTRDIFF_T)
    parameters[i].data.number.as_unsigned = (argarray == NULL)
      ? (trio_uintmax_t)va_arg(*arglist, ptrdiff_t)
      : (trio_uintmax_t)*((ptrdiff_t *)argarray[num]);
    else
#endif
#if defined(QUALIFIER_INTMAX_T)
  if (parameters[i].flags & FLAGS_INTMAX_T)
    parameters[i].data.number.as_unsigned = (argarray == NULL)
      ? (trio_uintmax_t)va_arg(*arglist, trio_intmax_t)
      : (trio_uintmax_t)*((trio_intmax_t *)argarray[num]);
    else
#endif
  if (parameters[i].flags & FLAGS_QUAD)
    parameters[i].data.number.as_unsigned = (argarray == NULL)
      ? (trio_uintmax_t)va_arg(*arglist, trio_ulonglong_t)
      : (trio_uintmax_t)*((trio_ulonglong_t *)argarray[num]);
    else if (parameters[i].flags & FLAGS_LONG)
      parameters[i].data.number.as_unsigned = (argarray == NULL)
        ? (trio_uintmax_t)va_arg(*arglist, long)
        : (trio_uintmax_t)*((long *)argarray[num]);
    else
      { 
        if (argarray == NULL)
          parameters[i].data.number.as_unsigned = (trio_uintmax_t)va_arg(*arglist, int);
        else
          { 
            if (parameters[i].type == FORMAT_CHAR)
              parameters[i].data.number.as_unsigned = (trio_uintmax_t)*((char *)argarray[num]);
            else if (parameters[i].flags & FLAGS_SHORT)
              parameters[i].data.number.as_unsigned = (trio_uintmax_t)*((short *)argarray[num]);
            else
              parameters[i].data.number.as_unsigned = (trio_uintmax_t)*((int *)argarray[num]);
          }
      }
}
break;

case FORMAT_PARAMETER:
  /*
   * The parameter for the user-defined specifier is a pointer,
   * whereas the rest (width, precision, base) uses an integer.
   */
  if (parameters[i].flags & FLAGS_USER_DEFINED)
    parameters[i].data.pointer = (argarray == NULL)
      ? va_arg(*arglist, trio_pointer_t)
      : argarray[num];
  else
    parameters[i].data.number.as_unsigned = (argarray == NULL)
      ? (trio_uintmax_t)va_arg(*arglist, int)
      : (trio_uintmax_t)((int *)argarray[num]);
  break;

case FORMAT_DOUBLE:
  if (TYPE_SCAN == type)
    {
      if (parameters[i].flags & FLAGS_LONGDOUBLE)
        parameters[i].data.longdoublePointer = (argarray == NULL)
          ? va_arg(*arglist, trio_long_double_t *)
          : (trio_long_double_t *)argarray[num];
      else
        {
          if (parameters[i].flags & FLAGS_LONG)
            parameters[i].data.doublePointer = (argarray == NULL)
              ? va_arg(*arglist, double *)
              : (double *)argarray[num];
          else
            parameters[i].data.doublePointer = (argarray == NULL)
              ? (double *)va_arg(*arglist, float *)
              : (double*)((float *)argarray[num]);
        }
    }
  else
    {
      if (parameters[i].flags & FLAGS_LONGDOUBLE)
        parameters[i].data.longdoubleNumber = (argarray == NULL)
          ? va_arg(*arglist, trio_long_double_t)
          : (trio_long_double_t*)((trio_long_double_t *)argarray[num]);
      else
        {
          if (argarray == NULL)
            parameters[i].data.longdoubleNumber =
              (trio_long_double_t)va_arg(*arglist, double);
          else
            break;
        }
    }
  break;
if (parameters[i].flags & FLAGS_SHORT)
parameters[i].data.longdoubleNumber =
(trio_long_double_t)(*((float *)argarray[num]));
else
parameters[i].data.longdoubleNumber =
(trio_long_double_t)(*((double *)argarray[num]));
}
}
}
} /* for all specifiers */
return num;
}

/*************************************************************************
* FORMATTING
************************************************************************/

/*************************************************************************
* TrioWriteNumber
* Description:
* Output a number.
* The complexity of this function is a result of the complexity
* of the dependencies of the flags.
* /
TRIO_PRIVATE void
TrioWriteNumber
TRIO_ARGS6((self, number, flags, width, precision, base),
    trio_class_t *self,
    trio_uintmax_t number,
    trio_flags_t flags,
    int width,
int precision,
int base)
{
  BOOLEAN_T isNegative;
  BOOLEAN_T isNumberZero;
  BOOLEAN_T isPrecisionZero;
  BOOLEAN_T ignoreNumber;
  char buffer[MAX_CHARS_IN(trio_uintmax_t) * (1 + MAX_LOCALE_SEPARATOR_LENGTH) + 1];
  char *bufferend;
  char *pointer;
  TRIO_CONST char *digits;
  int i;
  int length;
  char *p;
  int count;

  assert(VALID(self));
  assert(VALID(self->OutStream));
  assert(((base >= MIN_BASE) && (base <= MAX_BASE)) || (base == NO_BASE));

  digits = (flags & FLAGS_UPPER) ? internalDigitsUpper : internalDigitsLower;
  if (base == NO_BASE)
    base = BASE_DECIMAL;

  isNumberZero = (number == 0);
  isPrecisionZero = (precision == 0);
  ignoreNumber = (isNumberZero
  && isPrecisionZero
  && !((flags & FLAGS_ALTERNATIVE) && (base == BASE_OCTAL)));

  if (flags & FLAGS_UNSIGNED)
    {isNegative = FALSE;
     flags &= ~FLAGS_SHOWSIGN;
    }
  else
    {
      isNegative = ((trio_intmax_t)number < 0);
      if (isNegative)
        number = -((trio_intmax_t)number);
    }

  if (flags & FLAGS_QUAD)
    number &= (trio_ulonglong_t)-1;
  else if (flags & FLAGS_LONG)
    number &= (unsigned long)-1;
  else
    number &= (unsigned int)-1;
/* Build number */
pointer = bufferend = &buffer[sizeof(buffer) - 1];
*pointer-- = NIL;
for (i = 1; i < (int)sizeof(buffer); i++)
{
    *pointer-- = digits[number % base];
    number /= base;
    if (number == 0)
        break;
}

if ((flags & FLAGS_QUOTE) && TrioFollowedBySeparator(i + 1))
{
    /*
     * We are building the number from the least significant
     * to the most significant digit, so we have to copy the
     * thousand separator backwards
     */
    length = internalThousandSeparatorLength;
    if (((int)(pointer - buffer) - length) > 0)
    {
        p = &internalThousandSeparator[length - 1];
        while (length-- > 0)
            *pointer-- = *p--;
    }
}

if (! ignoreNumber)
{
    /* Adjust width */
    width -= (bufferend - pointer) - 1;
}

/* Adjust precision */
if (NO_PRECISION != precision)
{
    precision -= (bufferend - pointer) - 1;
    if (precision < 0)
        precision = 0;
    flags |= FLAGS_NILPADDING;
}

/* Calculate padding */
count = (! ((flags & FLAGS_LEFTADJUST) || (precision == NO_PRECISION)))
    ? precision
    : 0;
/* Adjust width further */
if (isNegative || (flags & FLAGS_SHOWSIGN) || (flags & FLAGS_SPACE))
    width--;
if (((flags & FLAGS_ALTERNATIVE) && !isNumberZero)
    {
        switch (base)
        {
        case BASE_BINARY:
        case BASE_HEX:
            width -= 2;
            break;
        case BASE_OCTAL:
            if (!((flags & FLAGS_NILPADDING) || (count == 0)))
                width--;
            break;
        default:
            break;
        }
    }

/* Output prefixes spaces if needed */
if (! ((flags & FLAGS_LEFTADJUST) || ((flags & FLAGS_NILPADDING) && (precision == NO_PRECISION))))
    {
        while (width-- > count)
            self->OutStream(self, CHAR_ADJUST);
    }

/* width has been adjusted for signs and alternatives */
if (isNegative)
    self->OutStream(self, '-');
else if (flags & FLAGS_SHOWSIGN)
    self->OutStream(self, '+');
else if (flags & FLAGS_SPACE)
    self->OutStream(self, ' ');

/* Prefix is not written when the value is zero */
if (((flags & FLAGS_ALTERNATIVE) && !isNumberZero)
    {
        switch (base)
        {
        case BASE_BINARY:
            self->OutStream(self, '0');
            break;
        case BASE_OCTAL:
            if (!((flags & FLAGS_NILPADDING) || (count == 0)))
                self->OutStream(self, '0');
            break;
        default:
            break;
        }
    }
self->OutStream(self, '0');
break;

case BASE_HEX:
  self->OutStream(self, '0');
  self->OutStream(self, (flags & FLAGS_UPPER) ? 'X' : 'x');
  break;

default:
  break;
} /* switch base */

/* Output prefixed zero padding if needed */
if (flags & FLAGS_NILPADDING)
{
  if (precision == NO_PRECISION)
    precision = width;
    while (precision-- > 0)
  {
    self->OutStream(self, '0');
    width--;
  }

if (! ignoreNumber)
{
  /* Output the number itself */
  while (*(++pointer))
  {
    self->OutStream(self, *pointer);
  }

  /* Output trailing spaces if needed */
  if (flags & FLAGS_LEFTADJUST)
  {
    while (width-- > 0)
    self->OutStream(self, CHAR_ADJUST);
  }

  /************
  * TrioWriteStringCharacter
  *
  * Description:  
  * Output a single character of a string
  */
TRIO_PRIVATE void
trioWriteStringCharacter
TRIO_ARGS3((self, ch, flags),
    trio_class_t *self,
    int ch,
    trio_flags_t flags)
{
    if (flags & FLAGS_ALTERNATIVE)
    {
        if (! isprint(ch))
        {
/*
 * Non-printable characters are converted to C escapes or
 * \number, if no C escape exists.
 */
            self->OutStream(self, CHAR_BACKSLASH);
            switch (ch)
            {
                case '\007': self->OutStream(self, 'a'); break;
                case '\b': self->OutStream(self, 'b'); break;
                case '\f': self->OutStream(self, 'f'); break;
                case '\n': self->OutStream(self, 'n'); break;
                case '\r': self->OutStream(self, 'r'); break;
                case '\t': self->OutStream(self, 't'); break;
                case '\v': self->OutStream(self, 'v'); break;
                case '\\': self->OutStream(self, '\'); break;
                default:
                    self->OutStream(self, 'x');
                    TrioWriteNumber(self, (trio_uintmax_t)ch,
                        FLAGS_UNSIGNED | FLAGS_NILPADDING,
                        2, 2, BASE_HEX);
                    break;
                }
            }
        else if (ch == CHAR_BACKSLASH)
        {
            self->OutStream(self, CHAR_BACKSLASH);
            self->OutStream(self, CHAR_BACKSLASH);
        }
        else
        {
            self->OutStream(self, ch);
        }
    }
    else
    {
        self->OutStream(self, ch);
    }
}
TRIO_PRIVATE void
TrioWriteString
TRIO_ARGS5((self, string, flags, width, precision),
    trio_class_t *self,
    TRIO_CONST char *string,
    trio_flags_t flags,
    int width,
    int precision)
{
    int length;
    int ch;

    assert(VALID(self));
    assert(VALID(self->OutStream));

    if (string == NULL)
    {
        string = internalNullString;
        length = sizeof(internalNullString) - 1;
        /* Disable quoting for the null pointer */
        flags &= (~FLAGS_QUOTE);
        width = 0;
    }
    else
    {
        length = trio_length(string);
    }
    if ((NO_PRECISION != precision) &&
        (precision < length))
    {
        length = precision;
    }
    width -= length;

    if (flags & FLAGS_QUOTE)
        self->OutStream(self, CHAR_QUOTE);
    if (! (flags & FLAGS_LEFTADJUST))
    {
        while (width-- > 0)
TrioWriteStringCharacter(self, ch, flags);
}

if (flags & FLAGS_LEFTADJUST)
{
    while (width-- > 0)
    {
        /* The ctype parameters must be an unsigned char (or EOF) */
        ch = (int)((unsigned char)(*string++));
        TrioWriteStringCharacter(self, ch, flags);
    }
}

if (flags & FLAGS_QUOTE)
    self->OutStream(self, CHAR_QUOTE);
}

/***************************************************************************
* TrioWriteWideStringCharacter
* Description:
* Output a wide string as a multi-byte sequence
*/
#if TRIO_WIDECHAR
TRIO_PRIVATE int
TrioWriteWideStringCharacter
TRIO_ARGS4((self, wch, flags, width),
    trio_class_t *self,
    trio_wchar_t wch,
    trio_flags_t flags,
    int width)
{
    int size;
    int i;
    int ch;
    char *string;
    char buffer[MB_LEN_MAX + 1];

    if (width == NO_WIDTH)
        width = sizeof(buffer);

    size = wctomb(buffer, wch);
    if ((size <= 0) || (size > width) || (buffer[0] == NIL))
        return 0;

    string = buffer;
i = size;
while ((width >= i) && (width-- > 0) && (i-- > 0))
{
    /* The ctype parameters must be an unsigned char (or EOF) */
    ch = (int)((unsigned char)(*string++));
    TrioWriteStringCharacter(self, ch, flags);
}
return size;
}
#endif /* TRIO_WIDECHAR */

/****************************************************************************
* TrioWriteWideString
*
* Description:
* Output a wide character string as a multi-byte string
*/
#if TRIO_WIDECHAR
TRIO_PRIVATE void
TrioWriteWideString
TRIO_ARGS5((self, wstring, flags, width, precision),
    trio_class_t *self,
    TRIO_CONST trio_wchar_t *wstring,
    trio_flags_t flags,
    int width,
    int precision)
{
    int length;
    int size;

    assert(VALID(self));
    assert(VALID(self->OutStream));

    #if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
    (void)mblen(NULL, 0);
    #endif

    if (wstring == NULL)
    {
        TrioWriteString(self, NULL, flags, width, precision);
        return;
    }

    if (NO_PRECISION == precision)
    {
        length = INT_MAX;
    }
    else
if (flags & FLAGS_QUOTE)
    self->OutStream(self, CHAR_QUOTE);

if (!(flags & FLAGS_LEFTADJUST))
{
    while (width-- > 0)
        self->OutStream(self, CHAR_ADJUST);
}

while (length > 0)
{
    size = TrioWriteWideStringCharacter(self, *wstring++, flags, length);
    if (size == 0)
        break; /* while */
    length -= size;
}

if (flags & FLAGS_LEFTADJUST)
{
    while (width-- > 0)
        self->OutStream(self, CHAR_ADJUST);
}
if (flags & FLAGS_QUOTE)
    self->OutStream(self, CHAR_QUOTE);
}
#endif /* TRIO_WIDECHAR */

/****************************************************************************
 * TrioWriteDouble
 * http://wwwold.dkuug.dk/JTC1/SC22/WG14/www/docs/dr_211.htm
 * "5.2.4.2.2 paragraph #4
 * * The accuracy [...] is implementation defined, as is the accuracy
 * * of the conversion between floating-point internal representations
 * * and string representations performed by the libray routine in
 * * <stdio.h>"
 */
/* FIXME: handle all instances of constant long-double number (L)
 * and *l() math functions. */
TRIO_PRIVATE void
TrioWriteDouble
TRIO_ARGS6((self, number, flags, width, precision, base),
  trio_class_t *self,
  trio_long_double_t number,
  trio_flags_t flags,
  int width,
  int precision,
  int base)
{
  trio_long_double_t integerNumber;
  trio_long_double_t fractionNumber;
  trio_long_double_t workNumber;
  int integerDigits;
  int fractionDigits;
  int exponentDigits;
  int baseDigits;
  int integerThreshold;
  int fractionThreshold;
  int expectedWidth;
  int exponent = 0;
  unsigned int uExponent = 0;
  int exponentBase;
  trio_long_double_t dblBase;
  trio_long_double_t dblIntegerBase;
  trio_long_double_t dblFractionBase;
  trio_long_double_t integerAdjust;
  trio_long_double_t fractionAdjust;
  BOOLEAN_T isNegative;
  BOOLEAN_T isExponentNegative = FALSE;
  BOOLEAN_T requireTwoDigitExponent;
  BOOLEAN_T isHex;
  TRIO_CONST char *digits;
  char *groupingPointer;
  int i;
  int index;
  BOOLEAN_T hasOnlyZeroes;
  int zeroes = 0;
  register int trailingZeroes;
  BOOLEAN_T keepTrailingZeroes;
  BOOLEAN_T keepDecimalPoint;
  trio_long_double_t epsilon;

  assert(VALID(self));
  assert(VALID(self->OutStream));
  assert(((base >= MIN_BASE) && (base <= MAX_BASE)) || (base == NO_BASE));

  /* Determine sign and look for special quantities */
  switch (trio_fpclassify_and_signbit(number, &isNegative))
case TRIO_FP_NAN:
    TrioWriteString(self, 
    (flags & FLAGS_UPPER) 
    ? NAN_UPPER 
    : NAN_LOWER, 
    flags, width, precision);
    return;

case TRIO_FP_INFINITE:
    if (isNegative)
    { /* Negative infinity */
        TrioWriteString(self, 
        (flags & FLAGS_UPPER) 
        ? "-" INFINITE_UPPER 
        : "-" INFINITE_LOWER, 
        flags, width, precision);
        return;
    }
    else
    { /* Positive infinity */
        TrioWriteString(self, 
        (flags & FLAGS_UPPER) 
        ? INFINITE_UPPER 
        : INFINITE_LOWER, 
        flags, width, precision);
        return;
    }

    default: /* Finitude */
    break;
}

/* Normal numbers */
if (flags & FLAGS_LONGDOUBLE)
{
    baseDigits = (base == 10) 
    ? LDBL_DIG 
    : (int)floor(LDBL_MANT_DIG / TrioLogarithmBase(base));
    epsilon = LDBL_EPSILON;
}
else if (flags & FLAGS_SHORT)
{ /* Finitude */
    baseDigits = (base == BASE_DECIMAL) 
    ? FLT_DIG 
    : (int)floor(FLT_MANT_DIG / TrioLogarithmBase(base));
    epsilon = FLT_EPSILON;
}
: (int)floor(FLT_MANT_DIG / TrioLogarithmBase(base));
   epsilon = FLT_EPSILON;
 }
 else
 {
   baseDigits = (base == BASE_DECIMAL) ? DBL_DIG
   else
   {
     baseDigits = (base == BASE_DECIMAL) ? DBL_DIG
   }
   epsilon = FLT_EPSILON;
 }

digits = (flags & FLAGS_UPPER) ? internalDigitsUpper : internalDigitsLower;
isHex = (base == BASE_HEX);
if (base == NO_BASE)
   base = BASE_DECIMAL;
dblBase = (trio_long_double_t)base;
keepTrailingZeroes = !( (flags & FLAGS_ROUNDING) ||
   ( (flags & FLAGS_FLOAT_G) &&
   !(flags & FLAGS_ALTERNATIVE) ) );

if (flags & FLAGS_ROUNDING)
   precision = baseDigits;

if (precision == NO_PRECISION)
{
   if (isHex)
   {
     keepTrailingZeroes = FALSE;
     precision = FLT_MANT_DIG;
   }
   else
   {
     precision = FLT_DIG;
   }
}

if (isNegative)
   number = -number;

if (isHex)
   flags |= FLAGS_FLOAT_E;

if (flags & FLAGS_FLOAT_G)
{
   if (precision == 0)
      precision = 1;

   if ((number < 1.0E-4) || (number > powl(base,
(trio_long_double_t)precision))
{
/* Use scientific notation */
flags |= FLAGS_FLOAT_E;
}
else if (number < 1.0)
{
/*
 * Use normal notation. If the integer part of the number is
 * zero, then adjust the precision to include leading fractional
 * zeros.
 */
workNumber = TrioLogarithm(number, base);
workNumber = TRIO_FABS(workNumber);
if (workNumber - floorl(workNumber) < 0.001)
    workNumber--;
zeroes = (int)floorl(workNumber);
}
if (flags & FLAGS_FLOAT_E)
{
/* Scale the number */
workNumber = TrioLogarithm(number, base);
if (trio_isinf(workNumber) == -1)
{
    exponent = 0;
/* Undo setting */
if (flags & FLAGS_FLOAT_G)
    flags &= ~FLAGS_FLOAT_E;
}
else
{
    exponent = (int)floorl(workNumber);
    number /= powl(dblBase, (trio_long_double_t)exponent);
isExponentNegative = (exponent < 0);
uExponent = (isExponentNegative) ? -exponent : exponent;
if (isHex)
    uExponent *= 4; /* log16(2) */
/* No thousand separators */
flags &= ~FLAGS_QUOTE;
}
}
integerNumber = floorl(number);
fractionNumber = number - integerNumber;
/*
Truncated number.

* Precision is number of significant digits for FLOAT_G
* and number of fractional digits for others.
*/

integerDigits = (integerNumber > epsilon)
    ? 1 + (int)TrioLogarithm(integerNumber, base)
    : 1;
fractionDigits = ((flags & FLAGS_FLOAT_G) && (zeroes == 0))
    ? precision - integerDigits
    : zeroes + precision;

dblFractionBase = TrioPower(base, fractionDigits);

workNumber = number + 0.5 / dblFractionBase;
if (floorl(number) != floorl(workNumber))
{
    if (flags & FLAGS_FLOAT_E)
    {
        /* Adjust if number was rounded up one digit (ie. 0.99 to 1.00) */
        exponent++;
        isExponentNegative = (exponent < 0);
        uExponent = (isExponentNegative) ? -exponent : exponent;
        if (isHex)
            uExponent *= 4; /* log16(2) */
        workNumber = (number + 0.5 / dblFractionBase) / dblBase;
        integerNumber = floorl(workNumber);
        fractionNumber = workNumber - integerNumber;
    }
    else
    {
        /* Adjust if number was rounded up one digit (ie. 99 to 100) */
        integerNumber = floorl(number + 0.5);
        fractionNumber = 0.0;
        integerDigits = (integerNumber > epsilon)
            ? 1 + (int)TrioLogarithm(integerNumber, base)
            : 1;
    }
}

/* Estimate accuracy */
integerAdjust = fractionAdjust = 0.5;
if (flags & FLAGS_ROUNDING)
{
    if (integerDigits > baseDigits)
    {
        integerThreshold = baseDigits;
        fractionDigits = 0;
    }
dblFractionBase = 1.0;
fractionThreshold = 0;
precision = 0; /* Disable decimal-point */
integerAdjust = TrioPower(base, integerDigits - integerThreshold - 1);
fractionAdjust = 0.0;
}
else
{
    integerThreshold = integerDigits;
fractionThreshold = fractionDigits - integerThreshold;
fractionAdjust = 1.0;
}
}
else
{
    integerThreshold = INT_MAX;
fractionThreshold = INT_MAX;
}

/*
 * Calculate expected width.
 *  sign + integer part + thousands separators + decimal point
 *  + fraction + exponent
 */
fractionAdjust /= dblFractionBase;
hasOnlyZeroes = (floorl((fractionNumber + fractionAdjust) * dblFractionBase) < epsilon);
keepDecimalPoint = ( (flags & FLAGS_ALTERNATIVE) || (!((precision == 0) || (!keepTrailingZeroes && hasOnlyZeroes)));
if (flags & FLAGS_FLOAT_E)
{
    exponentDigits = (uExponent == 0)? 1 : (int)ceil(TrioLogarithm((double)(uExponent + 1),
        (isHex) ? 10.0 : base));
}
else
    exponentDigits = 0;
requireTwoDigitExponent = ((base == BASE_DECIMAL) && (exponentDigits == 1));

expectedWidth = integerDigits + fractionDigits
  + (keepDecimalPoint
      ? internalDecimalPointLength
      : 0)
  + ((flags & FLAGS_QUOTE)
    ? TrioCalcThousandSeparatorLength(integerDigits)
    : 0);
if (isNewline || (flags & FLAGS_SHOWSIGN) || (flags & BASE_DECIMAL))
expectedWidth += sizeof("-") - 1;
if (exponentDigits > 0)
    expectedWidth += exponentDigits +
        ((requireTwoDigitExponent ? sizeof("E+0") : sizeof("E+")) - 1);
if (isHex)
    expectedWidth += sizeof("0X") - 1;

/* Output prefixing */
if (flags & FLAGS_NILPADDING)
{
    /* Leading zeros must be after sign */
    if (isNegative)
        self->OutStream(self, '-');
    else if (flags & FLAGS_SHOWSIGN)
        self->OutStream(self, '+');
    else if (flags & FLAGS_SPACE)
        self->OutStream(self, ' ');
        if (isHex)
        {
            self->OutStream(self, '0');
            self->OutStream(self, (flags & FLAGS_UPPER) ? 'X' : 'x');
        }
        if (!(flags & FLAGS_LEFTADJUST))
        {
            for (i = expectedWidth; i < width; i++)
            {
                self->OutStream(self, '0');
            }
        }
}
else
{
    /* Leading spaces must be before sign */
    if (!(flags & FLAGS_LEFTADJUST))
    {
        for (i = expectedWidth; i < width; i++)
        {
            self->OutStream(self, CHAR_ADJUST);
        }
    }
    if (isNegative)
        self->OutStream(self, '-');
    else if (flags & FLAGS_SHOWSIGN)
        self->OutStream(self, '+');
    else if (flags & FLAGS_SPACE)
        self->OutStream(self, ' ');
        if (isHex)
        {
        }
self->OutStream(self, '0');
self->OutStream(self, (flags & FLAGS_UPPER) ? 'X' : 'x');
}
}

/* Output the integer part and thousand separators */
dblIntegerBase = 1.0 / TrioPower(base, integerDigits - 1);
for (i = 0; i < integerDigits; i++)
{
    workNumber = floorl(((integerNumber + integerAdjust) * dblIntegerBase));
    if (i > integerThreshold)
    {
        /* Beyond accuracy */
        self->OutStream(self, digits[0]);
    }
    else
    {
        self->OutStream(self, digits[(int)fmodl(workNumber, dblBase)]);
    }
    dblIntegerBase *= dblBase;
}

if (((flags & (FLAGS_FLOAT_E | FLAGS_QUOTE)) == FLAGS_QUOTE)
    && TrioFollowedBySeparator(integerDigits - i))
{
    for (groupingPointer = internalThousandSeparator;
        *groupingPointer != NIL;
        groupingPointer++)
    {
        self->OutStream(self, *groupingPointer);
    }
}

/* Insert decimal point and build the fraction part */
trailingZeroes = 0;

if (keepDecimalPoint)
{
    if (internalDecimalPoint)
    {
        self->OutStream(self, internalDecimalPoint);
    }
    else
    {
        for (i = 0; i < internalDecimalPointLength; i++)
        {
            self->OutStream(self, internalDecimalPointString[i]);
        }
    }
}
for (i = 0; i < fractionDigits; i++)
{
    if ((integerDigits > integerThreshold) || (i > fractionThreshold))
    {
        /* Beyond accuracy */
        trailingZeroes++;
    }
    else
    {
        fractionNumber *= dblBase;
        fractionAdjust *= dblBase;
        workNumber = floorl(fractionNumber + fractionAdjust);
        fractionNumber -= workNumber;
        index = (int)fmodl(workNumber, dblBase);
        if (index == 0)
        {
            trailingZeroes++;
        }
        else
        {
            while (trailingZeroes > 0)
            {
                /* Not trailing zeroes after all */
                self->OutStream(self, digits[0]);
                trailingZeroes--;
            }
            self->OutStream(self, digits[index]);
        }
    }
}

if (keepTrailingZeroes)
{
    while (trailingZeroes > 0)
    {
        self->OutStream(self, digits[0]);
        trailingZeroes--;
    }
}

/* Output exponent */
if (exponentDigits > 0)
{
    self->OutStream(self, isHex
? ((flags & FLAGS_UPPER) ? 'P' : 'p')
: ((flags & FLAGS_UPPER) ? 'E' : 'e'));
self->OutStream(self, (isExponentNegative) ? '-' : '+');

/* The exponent must contain at least two digits */
if (requireTwoDigitExponent)
    self->OutStream(self, '0');

if (isHex)
    base = 10.0;
    exponentBase = (int)TrioPower(base, exponentDigits - 1);
    for (i = 0; i < exponentDigits; i++)
    {
        self->OutStream(self, digits[(uExponent / exponentBase) % base]);
        exponentBase /= base;
    }
/* Output trailing spaces */
if (flags & FLAGS_LEFTADJUST)
    {
        for (i = expectedWidth; i < width; i++)
        {
            self->OutStream(self, CHAR_ADJUST);
        }
    }
}

/*************************************************************************
* TrioFormatProcess
* Description:
* This is the main engine for formatting output
*/
TRIO_PRIVATE int
TrioFormatProcess
TRIO_ARGS3((data, format, parameters),
    trio_class_t *data,
    TRIO_CONST char *format,
    trio_parameter_t *parameters)
{
    #if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
        int charlen;
    #endif
    int i;
    TRIO_CONST char *string;
    trio_pointer_t pointer;
    trio_flags_t flags;
    int width;

int precision;
int base;
int index;

index = 0;
i = 0;
#ifdef TRIO_COMPILER_SUPPORTS_MULTIBYTE
(void)mblen(NULL, 0);
#endif

while (format[index])
{
#ifdef TRIO_COMPILER_SUPPORTS_MULTIBYTE
    if (! isascii(format[index]))
    {
        charlen = mblen(&format[index], MB_LEN_MAX);
        /*
         * Only valid multibyte characters are handled here. Invalid
         * multibyte characters (charlen == -1) are handled as normal
         * characters.
         */
        if (charlen != -1)
        {
            while (charlen-- > 0)
            {
                data->OutStream(data, format[index++]);
            }
            continue; /* while characters left in formatting string */
        }
    }
#endif /* TRIO_COMPILER_SUPPORTS_MULTIBYTE */

    if (CHAR_IDENTIFIER == format[index])
    {
        if (CHAR_IDENTIFIER == format[index + 1])
        {
            data->OutStream(data, CHAR_IDENTIFIER);
            index += 2;
        }
        else
        {
            /* Skip the parameter entries */
            while (parameters[i].type == FORMAT_PARAMETER)
                i++;
        }
        flags = parameters[i].flags;

        /* Find width */
        width = parameters[i].width;
    }
}
if (flags & FLAGS_WIDTH_PARAMETER)
{
   /* Get width from parameter list */
   width = (int)parameters[width].data.number.as_signed;
   if (width < 0)
   {
      /*
       * A negative width is the same as the - flag and
       * a positive width.
       */
      flags |= FLAGS_LEFTADJUST;
      flags &= ~FLAGS_NILPADDING;
      width = -width;
   }
}

/* Find precision */
if (flags & FLAGS_PRECISION)
{
   precision = parameters[i].precision;
   if (flags & FLAGS_PRECISION_PARAMETER)
   {
      /* Get precision from parameter list */
      precision = (int)parameters[precision].data.number.as_signed;
      if (precision < 0)
      {
         /*
          * A negative precision is the same as no
          * precision
          */
         precision = NO_PRECISION;
      }
   }
   else
   {
      precision = NO_PRECISION;
   }
}

/* Find base */
base = parameters[i].base;
if (flags & FLAGS_BASE_PARAMETER)
{
   /* Get base from parameter list */
   base = (int)parameters[base].data.number.as_signed;
}

switch (parameters[i].type)
case FORMAT_CHAR:
    if (flags & FLAGS_QUOTE)
        data->OutStream(data, CHAR_QUOTE);
    if (! (flags & FLAGS_LEFTADJUST))
    {
        while (--width > 0)
            data->OutStream(data, CHAR_ADJUST);
    }
#endif
    if (flags & FLAGS_WIDECHAR)
    {
        TrioWriteWideStringCharacter(data,
            (trio_wchar_t)parameters[i].data.number.as_signed,
            flags,
            NO_WIDTH);
    }
else
#endif
    {
        TrioWriteStringCharacter(data,
            (int)parameters[i].data.number.as_signed,
            flags);
    }

if (flags & FLAGS_LEFTADJUST)
    {
        while (--width > 0)
            data->OutStream(data, CHAR_ADJUST);
    }
    if (flags & FLAGS_QUOTE)
        data->OutStream(data, CHAR_QUOTE);
    break; /* FORMAT_CHAR */

case FORMAT_INT:
    TrioWriteNumber(data,
        parameters[i].data.number.as_unsigned,
        flags,
        width,
        precision,
        base);

    break; /* FORMAT_INT */

case FORMAT_DOUBLE:
    TrioWriteDouble(data,
        parameters[i].data.longdoubleNumber,
flags,
width,
precision,
break; /* FORMAT_DOUBLE */
}

case FORMAT_STRING:
#if TRIO_WIDECHAR
if (flags & FLAGS_WIDECHAR)
{
    TrioWriteWideString(data,
parameters[i].data.wstring,
flags,
width,
precision);
}
else
#endif
{
    TrioWriteString(data,
parameters[i].data.string,
flags,
width,
precision);
}
break; /* FORMAT_STRING */

case FORMAT_POINTER:
{
    trio_reference_t reference;

    reference.data = data;
    reference.parameter = &parameters[i];
    trio_print_pointer(&reference, parameters[i].data.pointer);
}
break; /* FORMAT_POINTER */

case FORMAT_COUNT:
    pointer = parameters[i].data.pointer;
    if (NULL != pointer)
    {
        /*
         * C99 paragraph 7.19.6.1.8 says "the number of
         * characters written to the output stream so far by
         * this call", which is data->committed
         */
#if defined(QUALIFIER_SIZE_T) || defined(QUALIFIER_SIZE_T_UPPER)
    if (flags & FLAGS_SIZE_T)
*(size_t *)pointer = (size_t)data->committed;
    else
#endif
#if defined(QUALIFIER_PTDIFF_T)
    if (flags & FLAGS_PTDIFF_T)
      *(ptrdiff_t *)pointer = (ptrdiff_t)data->committed;
    else
#endif
#if defined(QUALIFIER_INTMAX_T)
    if (flags & FLAGS_INTMAX_T)
      *(trio_intmax_t *)pointer = (trio_intmax_t)data->committed;
    else
#endif
    if (flags & FLAGS_QUAD)
      {
        *(trio_ulonglong_t *)pointer = (trio_ulonglong_t)data->committed;
      }
    else if (flags & FLAGS_LONG)
      {
        *(long int *)pointer = (long int)data->committed;
      }
    else if (flags & FLAGS_SHORT)
      {
        *(short int *)pointer = (short int)data->committed;
      }
    else
      {
        *(int *)pointer = (int)data->committed;
      }
} break; /* FORMAT_COUNT */

case FORMAT_PARAMETER:
    break; /* FORMAT_PARAMETER */

#if defined(FORMAT_ERRNO)
    case FORMAT_ERRNO:
      string = trio_error(parameters[i].data.errorNumber);
      if (string)
        {
          TrioWriteString(data,
          string,
          flags,
          width,
          precision);
        }
      else
        {
      


data->OutStream(data, '#');
TrioWriteNumber(data, (trio_uintmax_t)parameters[i].data.errorNumber, flags, width, precision, BASE_DECIMAL);
}
break; /* FORMAT_ERRNO */
#endif /* defined(FORMAT_ERRNO) */

#if defined(FORMAT_USER_DEFINED)
case FORMAT_USER_DEFINED:
{
trio_reference_t reference;
trio_userdef_t *def = NULL;

if (parameters[i].user_name[0] == NIL)
{
/* Use handle */
if ((i > 0) ||
(parameters[i - 1].type == FORMAT_PARAMETER))
def = (trio_userdef_t *)parameters[i - 1].data.pointer;
}
else
{
/* Look up namespace */
def = TrioFindNamespace(parameters[i].user_name, NULL);
}
if (def) {
reference.data = data;
reference.parameter = &parameters[i];
def->callback(&reference);
}
}
break;
#endif /* defined(FORMAT_USER_DEFINED) */

default:
break;
} /* switch parameter type */

/* Prepare for next */
index = parameters[i].indexAfterSpecifier;
i++;
}
}
else /* not identifier */
{ data->OutStream(data, format[index++]);
}

return data->processed;

/*************************************************************************
* TrioFormatRef
*/
TRIO_PRIVATE int TrioFormatRef
TRIO_ARGS4((reference, format, arglist, argarray),
    trio_reference_t *reference,
    TRIO_CONST char *format,
    va_list *arglist,
    trio_pointer_t *argarray)
{
    int status;
    trio_parameter_t parameters[MAX_PARAMETERS];

    status = TrioParse(TYPE_PRINT, format, parameters, arglist, argarray);
    if (status < 0)
        return status;

    status = TrioFormatProcess(reference->data, format, parameters);
    if (reference->data->error != 0)
    {
        status = reference->data->error;
    }
    return status;
}

/*************************************************************************
* TrioFormat
*/
TRIO_PRIVATE int TrioFormat
TRIO_ARGS6((destination, destinationSize, OutStream, format, arglist, argarray),
            trio_pointer_t destination,
            size_t destinationSize,
            void (*OutStream) TRIO_PROTO((trio_class_t *, int)),
            TRIO_CONST char *format,
            va_list *arglist,
            trio_pointer_t *argarray)
{
    int status;
    trio_class_t data;
trio_parameter_t parameters[MAX_PARAMETERS];

assert(VALID(OutStream));
assert(VALID(format));

memset(&data, 0, sizeof(data));
data.OutStream = OutStream;
data.location = destination;
data.max = destinationSize;
data.error = 0;

#if defined(USE_LOCALE)
if (NULL == internalLocaleValues)
{
    TrioSetLocale();
}
#endif

status = TrioParse(TYPE_PRINT, format, parameters, arglist, argarray);
if (status < 0)
    return status;

status = TrioFormatProcess(&data, format, parameters);
if (data.error != 0)
{
    status = data.error;
}
return status;

/*************************************************************************
* TrioOutStreamFile
*/
TRIO_PRIVATE void
TrioOutStreamFile
TRIO_ARGS2((self, output),
    trio_class_t *self,
    int output)
{
    FILE *file;

    assert(VALID(self));
    assert(VALID(self->location));

    file = (FILE *)self->location;
    self->processed++;
    if (fputc(output, file) == EOF)
    {

self->error = TRIO_ERROR_RETURN(TRIO_EOF, 0);
}
else
{
    self->committed++;
}
}

/*************************************************************************
* TrioOutStreamFileDescriptor
*/
TRIO_PRIVATE void
TrioOutStreamFileDescriptor
TRIO_ARGS2((self, output),
    trio_class_t *self,
    int output)
{
    int fd;
    char ch;

    assert(VALID(self));

    fd = *((int *)self->location);
    ch = (char)output;
    self->processed++;
    if (write(fd, &ch, sizeof(char)) == -1)
    {
        self->error = TRIO_ERROR_RETURN(TRIO_ERRNO, 0);
    }
    else
    {
        self->committed++;
    }
}

/*************************************************************************
* TrioOutStreamCustom
*/
TRIO_PRIVATE void
TrioOutStreamCustom
TRIO_ARGS2((self, output),
    trio_class_t *self,
    int output)
{
    int status;
    trio_custom_t *data;

    assert(VALID(self));
assert(VALID(self->location));

data = (trio_custom_t *)self->location;
if (data->stream.out)
{
    status = (data->stream.out)(data->closure, output);
    if (status >= 0)
    {
        self->committed++;
    }
    else
    {
        if (self->error == 0)
        {
            self->error = TRIO_ERROR_RETURN(TRIO_ECUSTOM, -status);
        }
    }
}
self->processed++;

/*************************************************************************/
/* TrioOutStreamString */
TRIO_PRIVATE void
TrioOutStreamString
TRIO_ARGS2((self, output),
    trio_class_t *self,
    int output)
{
    char **buffer;
    assert(VALID(self));
    assert(VALID(self->location));

    buffer = (char **)self->location;
    **buffer = (char)output;
    (*buffer)++;
    self->processed++;
    self->committed++;
}

/*************************************************************************/
/* TrioOutStreamStringMax */
TRIO_PRIVATE void
TrioOutStreamStringMax
TRIO_ARGS2((self, output),
    trio_class_t *self,
    int output),

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trio_class_t *self,
int output)
{
char **buffer;

assert(VALID(self));
assert(VALID(self->location));

buffer = (char **)self->location;

if (self->processed < self->max)
{
 **buffer = (char)output;
 (*buffer)++; self->committed++;
} self->processed++;
}

/**************************************************************************/
/* TrioOutStreamStringDynamic */
TRIO_PRIVATE void
TrioOutStreamStringDynamic TRIO_ARGS2((self, output),
    trio_class_t *self,
    int output)
{
assert(VALID(self));
assert(VALID(self->location));

if (self->error == 0)
{
    trio_xstring_append_char((trio_string_t *)self->location,
        (char)output);
    self->committed++;
}
/* The processed variable must always be increased */
self->processed++;
}

/**************************************************************************/
/* Formatted printing functions */
**************************************************************************/
#if defined(TRIO_DOCUMENTATION)
```c
#include "doc/doc_printf.h"
#endif
/** @addtogroup Printf
@{*/
/*************************************************************************
* printf
*/
/**
Print to standard output stream.

@param format Formatting string.
@param ... Arguments.
@return Number of printed characters.
*/
TRIO_PUBLIC int
trio_printf
TRIO_VARGS2((format, va_alist),
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
    int status;
    va_list args;

    assert(VALID(format));

    TRIO_VA_START(args, format);
    status = TrioFormat(stdout, 0, TrioOutStreamFile, format, &args, NULL);
    TRIO_VA_END(args);
    return status;
}
/**
Print to standard output stream.

@param format Formatting string.
@param args Arguments.
@return Number of printed characters.
*/
TRIO_PUBLIC int
trio_vprintf
TRIO_ARGS2((format, args),
    TRIO_CONST char *format,
    va_list args)
{
    assert(VALID(format));

    TRIO_VA_START(args, format);
    status = TrioFormat(stdout, 0, TrioOutStreamFile, format, &args, NULL);
    TRIO_VA_END(args);
    return status;
}
```
return TrioFormat(stdout, 0, TrioOutStreamFile, format, &args, NULL);
}

/**
 * Print to standard output stream.
 *
 * @param format Formatting string.
 * @param args Arguments.
 * @return Number of printed characters.
 */
TRIO_PUBLIC int
trio_printfv
TRIO_ARGS2((format, args),
    TRIO_CONST char *format,
    trio_pointer_t * args)
{
    assert(VALID(format));

    return TrioFormat(stdout, 0, TrioOutStreamFile, format, NULL, args);
}

/**
 * fprintf
 */

/**
 * Print to file.
 *
 * @param file File pointer.
 * @param format Formatting string.
 * @param ... Arguments.
 * @return Number of printed characters.
 */
TRIO_PUBLIC int
trio_fprintf
TRIO_VARGS3((file, format, va_alist),
    FILE *file,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
    int status;
    va_list args;

    assert(VALID(file));
    assert(VALID(format));

    TRIO_VA_START(args, format);
status = TrioFormat(file, 0, TrioOutStreamFile, format, &args, NULL);
TRIO_VA_END(args);
return status;
}

/**
 * Print to file.
 *
 * @param file File pointer.
 * @param format Formatting string.
 * @param args Arguments.
 * @return Number of printed characters.
 */
TRIO_PUBLIC int
trio_vfprintf
TRIO_ARGS3((file, format, args),
    FILE *file,
    TRIO_CONST char *format,
    va_list args)
{
    assert(VALID(file));
    assert(VALID(format));

    return TrioFormat(file, 0, TrioOutStreamFile, format, &args, NULL);
}

/**
 * Print to file.
 *
 * @param file File pointer.
 * @param format Formatting string.
 * @param args Arguments.
 * @return Number of printed characters.
 */
TRIO_PUBLIC int
trio_fprintfv
TRIO_ARGS3((file, format, args),
    FILE *file,
    TRIO_CONST char *format,
    trio_pointer_t * args)
{
    assert(VALID(file));
    assert(VALID(format));

    return TrioFormat(file, 0, TrioOutStreamFile, format, NULL, args);
}
* dprintf
*/

/**
 * Print to file descriptor.
 */

TRIO_PUBLIC int
trio_dprintf
TRIO_VARGS3((fd, format, va_alist),
    int fd,
    TRIO_CONST char *format,
    TRIO_VADECL)
{
    int status;
    va_list args;

    assert(VALID(format));

    TRIO_VA_START(args, format);
    status = TrioFormat(&fd, 0, TrioOutStreamFileDescriptor, format, &args, NULL);
    TRIO_VA_END(args);
    return status;
}

/**
 * Print to file descriptor.
 */

TRIO_PUBLIC int
trio_vdprintf
TRIO_ARGS3((fd, format, args),
    int fd,
    TRIO_CONST char *format,
    va_list args)
{
    assert(VALID(format));

    TRIO_VA_START(args, format);
    return TrioFormat(&fd, 0, TrioOutStreamFileDescriptor, format, &args, NULL);
    }
Print to file descriptor.

@param fd File descriptor.
@param format Formatting string.
@param args Arguments.
@return Number of printed characters.

TRIO_PUBLIC int
trio_dprintfv
TRIOARGS3(f, format, args),
  int f,
  TRIO_CONST char *format,
  trio_pointer_t *args)
{
  assert(VALID(format));

  return TrioFormat(&f, 0, TrioOutStreamFileDescriptor, format, NULL, args);
}

TRIO_PUBLIC int
trio_cprintf
TRIOARGS4(stream, closure, format, va_alist),
  trio_outstream_t stream,
  trio_pointer_t closure,
  TRIO_CONST char *format,
  TRIO_VA_DECL)
{
  int status;
  va_list args;
  trio_custom_t data;

  assert(VALID(stream));
  assert(VALID(format));

  TRIO_VA_START(args, format);
  data.stream.out = stream;
  data.closure = closure;
  status = TrioFormat(&data, 0, TrioOutStreamCustom, format, &args, NULL);
  TRIO_VA_END(args);
  return status;
}

TRIO_PUBLIC int
trio_vcprintf
TRIO_ARGS4((stream, closure, format, args),
    trio_outstream_t stream,
    trio_pointer_t closure,
    TRIO_CONST char *format,
    va_list args)
{
    trio_custom_t data;

    assert(VALID(stream));
    assert(VALID(format));

    data.stream.out = stream;
    data.closure = closure;
    return TrioFormat(&data, 0, TrioOutStreamCustom, format, &args, NULL);
}

TRIO_PUBLIC int
trio_cprintfv
TRIO_ARGS4((stream, closure, format, args),
    trio_outstream_t stream,
    trio_pointer_t closure,
    TRIO_CONST char *format,
    void **args)
{
    trio_custom_t data;

    assert(VALID(stream));
    assert(VALID(format));

    data.stream.out = stream;
    data.closure = closure;
    return TrioFormat(&data, 0, TrioOutStreamCustom, format, NULL, args);
}

/*************************************************************************
* sprintf
*/
/**
Print to string.

@param buffer Output string.
@param format Formatting string.
@param ... Arguments.
@return Number of printed characters.
*/
TRIO_PUBLIC int
trio_sprintf
TRIO_VARGS3((buffer, format, va_alist),
    char *buffer,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
    int status;
    va_list args;

    assert(VALID(buffer));
    assert(VALID(format));

    TRIO_VA_START(args, format);
    status = TrioFormat(&buffer, 0, TrioOutStreamString, format, &args, NULL);
    *buffer = NIL; /* Terminate with NIL character */
    TRIO_VA_END(args);
    return status;
}
/**
 * Print to string.
 *
 * @param buffer Output string.
 * @param format Formatting string.
 * @param args Arguments.
 * @return Number of printed characters.
 */
TRIO_PUBLIC int
trio_vsprintf
TRIO_ARGS3((buffer, format, args),
    char *buffer,
    TRIO_CONST char *format,
    va_list args)
{
    int status;

    assert(VALID(buffer));
    assert(VALID(format));

    status = TrioFormat(&buffer, 0, TrioOutStreamString, format, &args, NULL);
    *buffer = NIL;
    return status;
}
/**
 * Print to string.
 *
 * @param buffer Output string.
 * @param format Formatting string.
 * @param args Arguments.
 * @return Number of printed characters.
 */
@param format Formatting string.
@param args Arguments.
@return Number of printed characters.
*/
TRIO_PUBLIC int
trio_sprintfv
TRIO_ARGS3((buffer, format, args),
char *buffer,
TRIO_CONST char *format,
trio_pointer_t *args)
{
int status;

assert(VALID(buffer));
assert(VALID(format));

status = TrioFormat(&buffer, 0, TrioOutStreamString, format, NULL, args);
*buffer = NIL;
return status;
}

/************************************************************
* snprintf
*/

/**
 * Print at most @p max characters to string.
 *
 @param buffer Output string.
 @param max Maximum number of characters to print.
 @param format Formatting string.
 @param ... Arguments.
 @return Number of printed characters.
 */
TRIO_PUBLIC int
trio_snprintf
TRIO_VARGS4((buffer, max, format, va_alist),
char *buffer,
size_t max,
TRIO_CONST char *format,
TRIO_VA_DECL)
{
int status;
va_list args;

assert(VALID(buffer));
assert(VALID(format));
TRIO_VA_START(args, format);
status = TrioFormat(&buffer, max > 0 ? max - 1 : 0,
    TrioOutStreamStringMax, format, &args, NULL);
if (max > 0)
    *buffer = NIL;
TRIO_VA_END(args);
return status;
}

/**
 * Print at most @p max characters to string.
 *
 * @param buffer Output string.
 * @param max Maximum number of characters to print.
 * @param format Formatting string.
 * @param args Arguments.
 * @return Number of printed characters.
 */
TRIO_PUBLIC int
trio_vsnprintf
TRIO_ARGS4((buffer, max, format, args),
    char *buffer,  size_t max,
    TRIO_CONST char *format,
    va_list args)
{
    int status;

    assert(VALID(buffer));
    assert(VALID(format));

    status = TrioFormat(&buffer, max > 0 ? max - 1 : 0,
        TrioOutStreamStringMax, format, &args, NULL);
    if (max > 0)
        *buffer = NIL;
    return status;
}

/**
 * Print at most @p max characters to string.
 *
 * @param buffer Output string.
 * @param max Maximum number of characters to print.
 * @param format Formatting string.
 * @param args Arguments.
 * @return Number of printed characters.
 */
TRIO_PUBLIC int
trio_snprintfv
TRIO_ARGS4((buffer, max, format, args),
    char *buffer,
    size_t max,
    TRIO_CONST char *format,
    trio_pointer_t *args)
{
    int status;

    assert(VALID(buffer));
    assert(VALID(format));

    status = TrioFormat(&buffer, max > 0 ? max - 1 : 0,
        TrioOutStreamStringMax, format, NULL, args);
    if (max > 0)
        *buffer = NIL;
    return status;
}

/**************************************************************************/
/* snprintfcat
/* Appends the new string to the buffer string overwriting the '0'
/* character at the end of buffer.
*/
TRIO_PUBLIC int
trio_snprintfcat
TRIO_VARGS4((buffer, max, format, va_alist),
    char *buffer,
    size_t max,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
    int status;
    va_list args;
    size_t buf_len;

    TRIO_VA_START(args, format);

    assert(VALID(buffer));
    assert(VALID(format));

    buf_len = trio_length(buffer);
    buffer = &buffer[buf_len];

    status = TrioFormat(&buffer, max - 1 - buf_len,
        TrioOutStreamStringMax, format, &args, NULL);
    TRIO_VA_END(args);
    *buffer = NIL;

return status;
}

TRIO_PUBLIC int
trio_vsnprintfcat
TRIO_ARGS4((buffer, max, format, args),
    char *buffer,
    size_t max,
    TRIO_CONST char *format,
    va_list args)
{
    int status;
    size_t buf_len;

    assert(VALID(buffer));
    assert(VALID(format));

    buf_len = trio_length(buffer);
    buffer = &buffer[buf_len];
    status = TrioFormat(&buffer, max - 1 - buf_len,
                       TrioOutStreamStringMax, format, &args, NULL);
    *buffer = NIL;
    return status;
}

/*************************************************************************/
/* trio_aprintf */
/* Deprecated */
TRIO_PUBLIC char *
trio_aprintf
TRIO_VARGS2((format, va_alist),
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
    va_list args;
    trio_string_t *info;
    char *result = NULL;

    assert(VALID(format));

    info = trio_xstring_duplicate("/
    if (info)
    {
        TRIO VA START(args, format);
        (void)TrioFormat(info, 0, TrioOutStreamStringDynamic,
            format, &args, NULL);```
TRIO_VA_END(args);

   trio_string_terminate(info);
   result = trio_string_extract(info);
   trio_string_destroy(info);
}
return result;
}

/* Deprecated */
TRIO_PUBLIC char *
trio_vprintf
TRIO_ARGS2((format, args),
   TRIO_CONST char *format,
   va_list args)
{
   trio_string_t *info;
   char *result = NULL;

   assert(VALID(format));

   info = trio_xstring_duplicate(""");
   if (info)
   {
      (void)TrioFormat(info, 0, TrioOutStreamStringDynamic,
         format, &args, NULL);
      trio_string_terminate(info);
      result = trio_string_extract(info);
      trio_string_destroy(info);
   }
   return result;
}

TRIO_PUBLIC int
trio_asprintf
TRIO_VARGS3((result, format, va_alist),
   char **result,
   TRIO_CONST char *format,
   TRIO_VA_DECL)
{
   va_list args;
   int status;
   trio_string_t *info;

   assert(VALID(format));

   *result = NULL;
info = trio_xstring_duplicate("");
if (info == NULL)
{
    status = TRIO_ERROR_RETURN(TRIO_ENOMEM, 0);
}
else
{
    TRIO_VA_START(args, format);
    status = TrioFormat(info, 0, TrioOutStreamStringDynamic,
                         format, &args, NULL);
    TRIO_VA_END(args);
    if (status >= 0)
    {
        trio_string_terminate(info);
        *result = trio_string_extract(info);
    }
}
trio_string_destroy(info);
return status;

TRIO_PUBLIC int
trio_vasprintf
TRIO_ARGS3((result, format, args),
    char **result,
    TRIO_CONST char *format,
    va_list args)
{
int status;
trio_string_t *info;

assert(VALID(format));

*result = NULL;

info = trio_xstring_duplicate("");
if (info == NULL)
{
    status = TRIO_ERROR_RETURN(TRIO_ENOMEM, 0);
}
else
{
    status = TrioFormat(info, 0, TrioOutStreamStringDynamic,
                         format, &args, NULL);
    if (status >= 0)
    {
        trio_string_terminate(info);
        *result = trio_string_extract(info);
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```c
}  
    trio_string_destroy(info);  
}  
return status;  
}  
/** @} End of Printf documentation module */

/*******************************************************************************
*  
*  * CALLBACK
*  
*******************************************************************************/

#if defined(TRIO_DOCUMENTATION)
#include "doc/doc_register.h"
#endif
/**
@addtogroup UserDefined
@{
*/
#if TRIO_EXTENSION
/*******************************************************************************
* trio_register
* /

/**
   Register new user-defined specifier.

   @param callback
   @param name
   @return Handle.

*/
TRIO_PUBLIC trio_pointer_t
trio_register
TRIO_ARGS2((callback, name),
    trio_callback_t callback,
    TRIO_CONST char *name)
{
    trio_userdef_t *def;
    trio_userdef_t *prev = NULL;

    if (callback == NULL)
        return NULL;

    if (name)
        
```
{
/* Handle built-in namespaces */
if (name[0] == ':')
{
if (trio_equal(name, ":enter"))
{
internalEnterCriticalRegion = callback;
}
else if (trio_equal(name, ":leave"))
{
internalLeaveCriticalRegion = callback;
}
return NULL;
}
/* Bail out if namespace is too long */
if (trio_length(name) >= MAX_USER_NAME)
return NULL;
/* Bail out if namespace already is registered */
def = TrioFindNamespace(name, &prev);
if (def)
return NULL;
}
def = (trio_userdef_t *)TRIO_MALLOC(sizeof(trio_userdef_t));
if (def)
{
if (internalEnterCriticalRegion)
(void)internalEnterCriticalRegion(NULL);
if (name)
{
/* Link into internal list */
if (prev == NULL)
internalUserDef = def;
else
prev->next = def;
}
/* Initialize */
def->callback = callback;
def->name = (name == NULL)
? NULL
: trio_duplicate(name);
def->next = NULL;
if (internalLeaveCriticalRegion)
(void)internalLeaveCriticalRegion(NULL);

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Unregister an existing user-defined specifier.

@param handle

/*
 void
trio_unregister
TRIO_ARGS1((handle),
    trio_pointer_t handle)
{
    trio_userdef_t *self = (trio_userdef_t *)handle;
    trio_userdef_t *def;
    trio_userdef_t *prev = NULL;

    assert(VALID(self));

    if (self->name)
    {
        def = TrioFindNamespace(self->name, &prev);
        if (def)
        {
            if (internalEnterCriticalRegion)
                (void)internalEnterCriticalRegion(NULL);
            if (prev == NULL)
                internalUserDef = NULL;
            else
                prev->next = def->next;
            if (internalLeaveCriticalRegion)
                (void)internalLeaveCriticalRegion(NULL);
        }
        trio_destroy(self->name);
    }
    TRIO_FREE(self);
}

*************************************************************************
* trio_get_format [public] *
*/
TRIO_CONST char *
trio_get_format
TRIO_ARGS1((ref),
    trio_pointer_t ref)
#if defined(FORMAT_USER_DEFINED)
assert(((trio_reference_t *)ref)->parameter->type == FORMAT_USER_DEFINED);
#endif

return (((trio_reference_t *)ref)->parameter->user_data);
}

/**************************************************************************/
* trio_get_argument [public]
*/
trio_pointer_t
trio_get_argument
TRIO_ARGS1((ref),
        trio_pointer_t ref)
{
#if defined(FORMAT_USER_DEFINED)
assert(((trio_reference_t *)ref)->parameter->type == FORMAT_USER_DEFINED);
#endif
return ((trio_reference_t *)ref)->parameter->data.pointer;
}

/**************************************************************************/
* trio_get_width / trio_set_width [public]
*/
int
trio_get_width
TRIO_ARGS1((ref),
        trio_pointer_t ref)
{
return ((trio_reference_t *)ref)->parameter->width;
}

void
trio_set_width
TRIO_ARGS2((ref, width),
        trio_pointer_t ref,
        int width)
{
((trio_reference_t *)ref)->parameter->width = width;
}

/**************************************************************************/
* trio_get_precision / trio_set_precision [public]
*/
int
trio_get_precision
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return (((trio_reference_t *)ref)->parameter->precision);
}

void
trio_set_precision
TRIO_ARGS2((ref, precision),
    trio_pointer_t ref,
    int precision)
{
    ((trio_reference_t *)ref)->parameter->precision = precision;
}

/*
   * trio_get_base / trio_set_base [public]
   */
int
trio_get_base
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return (((trio_reference_t *)ref)->parameter->base);
}

void
trio_set_base
TRIO_ARGS2((ref, base),
    trio_pointer_t ref,
    int base)
{
    ((trio_reference_t *)ref)->parameter->base = base;
}

/*
   * trio_get_long / trio_set_long [public]
   */
int
trio_get_long
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return (((trio_reference_t *)ref)->parameter->flags & FLAGS_LONG)
        ? TRUE
        : FALSE;
}
void
trio_set_long
TRIO_ARGS2((ref, is_long),
    trio_pointer_t ref,
    int is_long)
{
    if (is_long)
        ((trio_reference_t *)ref)->parameter->flags |= FLAGS_LONG;
    else
        ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_LONG;
}

/*************************************************************************/
* trio_get_longlong / trio_set_longlong [public]
* /
int
trio_get_longlong
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return ((trio_reference_t *)ref)->parameter->flags & FLAGS_QUAD)
        ? TRUE
        : FALSE;
}

void
trio_set_longlong
TRIO_ARGS2((ref, is_longlong),
    trio_pointer_t ref,
    int is_longlong)
{
    if (is_longlong)
        ((trio_reference_t *)ref)->parameter->flags |= FLAGS_QUAD;
    else
        ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_QUAD;
}

/*************************************************************************/
* trio_get_longdouble / trio_set_longdouble [public]
* /
int
trio_get_longdouble
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return ((trio_reference_t *)ref)->parameter->flags & FLAGS_LONGDOUBLE)
        ? TRUE
        : FALSE;
void
trio_set_longdouble
TRIO_ARGS2((ref, is_longdouble),
    trio_pointer_t ref,
    int is_longdouble)
{
    if (is_longdouble)
        ((trio_reference_t *)ref)->parameter->flags |= FLAGS_LONGDOUBLE;
    else
        ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_LONGDOUBLE;
}

/******************************************************************************
* trio_get_short / trio_set_short [public] */
int
trio_get_short
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return (((trio_reference_t *)ref)->parameter->flags & FLAGS_SHORT)
        ? TRUE
        : FALSE;
}

void
trio_set_short
TRIO_ARGS2((ref, is_short),
    trio_pointer_t ref,
    int is_short)
{
    if (is_short)
        ((trio_reference_t *)ref)->parameter->flags |= FLAGS_SHORT;
    else
        ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_SHORT;
}

/******************************************************************************
* trio_get_shortshort / trio_set_shortshort [public] */
int
trio_get_shortshort
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return (((trio_reference_t *)ref)->parameter->flags & FLAGS_SHORTSHORT)
void
trio_set_shortshort
TRIO_ARGS2((ref, is_shortshort),
    trio_pointer_t ref,
    int is_shortshort)
{
    if (is_shortshort)
        ((trio_reference_t *)ref)->parameter->flags |= FLAGS_SHORTSHORT;
    else
        ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_SHORTSHORT;
}

/*************************************************************************
* trio_get_alternative / trio_set_alternative [public]
*/
int
trio_get_alternative
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return (((trio_reference_t *)ref)->parameter->flags & FLAGS_ALTERNATIVE)
        ? TRUE
        : FALSE;
}

void
trio_set_alternative
TRIO_ARGS2((ref, is_alternative),
    trio_pointer_t ref,
    int is_alternative)
{
    if (is_alternative)
        ((trio_reference_t *)ref)->parameter->flags |= FLAGS_ALTERNATIVE;
    else
        ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_ALTERNATIVE;
}

/*************************************************************************
* trio_get_alignment / trio_set_alignment [public]
*/
int
trio_get_alignment
TRIO_ARGS1((ref),
    trio_pointer_t ref)
return (((trio_reference_t*)ref)->parameter->flags & FLAGS_LEFTADJUST) 
  ? TRUE  
  : FALSE;
}

trio_set_alignment  
TRIO_ARGS2((ref, is_leftaligned), 
    trio_pointer_t ref, 
    int is_leftaligned)  
{
  if (is_leftaligned) 
    ((trio_reference_t*)ref)->parameter->flags |= FLAGS_LEFTADJUST;  
  else 
    ((trio_reference_t*)ref)->parameter->flags &= ~FLAGS_LEFTADJUST; 
}

/************************************************************************* 
* trio_get_spacing / trio_set_spacing [public] */ 
int  
trio_get_spacing  
TRIO_ARGS1((ref), 
    trio_pointer_t ref)  
{ 
  return (((trio_reference_t*)ref)->parameter->flags & FLAGS_SPACE) 
    ? TRUE  
    : FALSE;  
}

trio_set_spacing  
TRIO_ARGS2((ref, is_space), 
    trio_pointer_t ref,  
    int is_space)  
{
  if (is_space)  
    ((trio_reference_t*)ref)->parameter->flags |= FLAGS_SPACE;  
  else  
    ((trio_reference_t*)ref)->parameter->flags &= ~FLAGS_SPACE; 
}

/************************************************************************* 
* trio_get_sign / trio_set_sign [public] */ 
int  
trio_get_sign
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return (((trio_reference_t *)ref)->parameter->flags & FLAGS_SHOWSIGN)
        ? TRUE
        : FALSE;
}

void
trio_set_sign
TRIO_ARGS2((ref, is_sign),
    trio_pointer_t ref,
    int is_sign)
{
    if (is_sign)
        ((trio_reference_t *)ref)->parameter->flags |= FLAGS_SHOWSIGN;
    else
        ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_SHOWSIGN;
}

/*************************************************************************
\* trio_get_padding / trio_set_padding [public]
\*/
int
trio_get_padding
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return (((trio_reference_t *)ref)->parameter->flags & FLAGS_NILPADDING)
        ? TRUE
        : FALSE;
}

void
trio_set_padding
TRIO_ARGS2((ref, is_padding),
    trio_pointer_t ref,
    int is_padding)
{
    if (is_padding)
        ((trio_reference_t *)ref)->parameter->flags |= FLAGS_NILPADDING;
    else
        ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_NILPADDING;
}

/*************************************************************************
\* trio_get_quote / trio_set_quote [public]
\*/
int
trio_get_quote
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return (*((trio_reference_t *)ref)->parameter->flags & FLAGS_QUOTE)
        ? TRUE
        : FALSE;
}

void
trio_set_quote
TRIO_ARGS2((ref, is_quote),
    trio_pointer_t ref,
    int is_quote)
{
    if (is_quote)
        ((trio_reference_t *)ref)->parameter->flags |= FLAGS_QUOTE;
    else
        ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_QUOTE;
}

/*************************************************************************
* trio_get_upper / trio_set_upper [public]
* /
int
trio_get_upper
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return (*((trio_reference_t *)ref)->parameter->flags & FLAGS_UPPER)
        ? TRUE
        : FALSE;
}

void
trio_set_upper
TRIO_ARGS2((ref, is_upper),
    trio_pointer_t ref,
    int is_upper)
{
    if (is_upper)
        ((trio_reference_t *)ref)->parameter->flags |= FLAGS_UPPER;
    else
        ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_UPPER;
}

/*************************************************************************
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* trio_get_largest / trio_set_largest [public]*

*/
#if TRIO_C99
int
trio_get_largest
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return (((trio_reference_t *)ref)->parameter->flags & FLAGS_INTMAX_T)
        ? TRUE
        : FALSE;
}

void
trio_set_largest
TRIO_ARGS2((ref, is_largest),
    trio_pointer_t ref,
    int is_largest)
{
    if (is_largest)
        ((trio_reference_t *)ref)->parameter->flags |= FLAGS_INTMAX_T;
    else
        ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_INTMAX_T;
} #endif

/*************************************************************************
* trio_get_ptrdiff / trio_set_ptrdiff [public]
*/
int
trio_get_ptrdiff
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return (((trio_reference_t *)ref)->parameter->flags & FLAGS_PTRDIFF_T)
        ? TRUE
        : FALSE;
}

void
trio_set_ptrdiff
TRIO_ARGS2((ref, is_ptrdiff),
    trio_pointer_t ref,
    int is_ptrdiff)
{
    if (is_ptrdiff)
        ((trio_reference_t *)ref)->parameter->flags |= FLAGS_PTRDIFF_T;
    else

((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_PTRDIFF_T;
}

/***************************************************************************
* trio_get_size / trio_set_size [public]
*/
#if TRIO_C99
int
trio_get_size
TRIO_ARGS1((ref),
    trio_pointer_t ref)
{
    return (((trio_reference_t *)ref)->parameter->flags & FLAGS_SIZE_T)
        ? TRUE
        : FALSE;
}

void
trio_set_size
TRIO_ARGS2((ref, is_size),
    trio_pointer_t ref,
    int is_size)
{
    if (is_size)
        ((trio_reference_t *)ref)->parameter->flags |= FLAGS_SIZE_T;
    else
        ((trio_reference_t *)ref)->parameter->flags &= ~FLAGS_SIZE_T;
}
#endif

/***************************************************************************
* trio_print_int [public]
*/
void
trio_print_int
TRIO_ARGS2((ref, number),
    trio_pointer_t ref,
    int number)
{
    trio_reference_t *self = (trio_reference_t *)ref;

    TrioWriteNumber(self->data,
        (trio_uintmax_t)number,
        self->parameter->flags,
        self->parameter->width,
        self->parameter->precision,
        self->parameter->base);
}
```c
void trio_print_uint(TRIO_ARGS2((ref, number),
trio_pointer_t ref,
unsigned int number))
{
    trio_reference_t *self = (trio_reference_t *)ref;

    TrioWriteNumber(self->data,
    (trio_uintmax_t)number,
    self->parameter->flags | FLAGS_UNSIGNED,
    self->parameter->width,
    self->parameter->precision,
    self->parameter->base);
}

void trio_print_double(TRIO_ARGS2((ref, number),
trio_pointer_t ref,
double number))
{
    trio_reference_t *self = (trio_reference_t *)ref;

    TrioWriteDouble(self->data,
    number,
    self->parameter->flags,
    self->parameter->width,
    self->parameter->precision,
    self->parameter->base);
}

void trio_print_string(TRIO_ARGS2((ref, string),
trio_pointer_t ref,
char *string))
{
```
trio_reference_t *self = (trio_reference_t *)ref;

TrioWriteString(self->data,
    string,
    self->parameter->flags,
    self->parameter->width,
    self->parameter->precision);
}

/*************************************************************************/
/* trio_print_ref [public] */
int
trio_print_ref
TRIO_VARGS3((ref, format, va_alist),
    trio_pointer_t ref,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
    int status;
    va_list arglist;

    assert(VALID(format));

    TRIO_VA_START(arglist, format);
    status = TrioFormatRef((trio_reference_t *)ref, format, &arglist, NULL);
    TRIO_VA_END(arglist);
    return status;
}

/*************************************************************************/
/* trio_vprint_ref [public] */
int
trio_vprint_ref
TRIO_ARGS3((ref, format, arglist),
    trio_pointer_t ref,
    TRIO_CONST char *format,
    va_list arglist)
{
    assert(VALID(format));

    return TrioFormatRef((trio_reference_t *)ref, format, &arglist, NULL);
}

/*************************************************************************/
/* trio_printv_ref [public] */
*
int
trio_printv_ref
TRIO_ARGS3((ref, format, argarray),
    trio_pointer_t ref,
    TRIO_CONST char *format,
    trio_pointer_t *argarray)
{
    assert(VALID(format));

    return TrioFormatRef((trio_reference_t *)ref, format, NULL, argarray);
}
#endif /* TRIO_EXTENSION */

/*************************************************************************
* trio_print_pointer [public]
*/

void
trio_print_pointer
TRIO_ARGS2((ref, pointer),
    trio_pointer_t ref,
    trio_pointer_t pointer)
{
    trio_reference_t *self = (trio_reference_t *)ref;
    trio_flags_t flags;
    trio_uintmax_t number;
    if (NULL == pointer)
    {
        TRIO_CONST char *string = internalNullString;
        while (*string)
            self->data->OutStream(self->data, *string++);
    }
    else
    {
        /* The subtraction of the null pointer is a workaround
         * to avoid a compiler warning. The performance overhead
         * is negligible (and likely to be removed by an
         * optimizing compiler). The (char *) casting is done
         * to please ANSI C++.
         */
        number = (trio_uintmax_t)((char *)pointer - (char *)0);
        /* Shrink to size of pointer */
        number &= (trio_uintmax_t)-1;
        flags = self->parameter->flags;
        flags |= (FLAGS_UNSIGNED | FLAGS_ALTERNATIVE |
            FLAGS_NILPADDING);
TrioWriteNumber(self->data, number, flags, POINTER_WIDTH, NO_PRECISION, BASE_HEX);
}
}

/** @} End of UserDefined documentation module */

*************************************************************************
*
* LOCALES
*
************************************************************************/

*************************************************************************/
*
* trio_locale_set_decimal_point
*
* Decimal point can only be one character. The input argument is a
* string to enable multibyte characters. At most MB_LEN_MAX characters
* will be used.
*/
TRIO_PUBLIC void
trio_locale_set_decimal_point
TRIO_ARGS1((decimalPoint), char *decimalPoint)
{
#if defined(USE_LOCALE)
if (NULL == internalLocaleValues)
{
TrioSetLocale();
}
#endif
internalDecimalPointLength = trio_length(decimalPoint);
if (internalDecimalPointLength == 1)
{
    internalDecimalPoint = *decimalPoint;
}
else
{
    internalDecimalPoint = NIL;
    trio_copy_max(internalDecimalPointString, sizeof(internalDecimalPointString), sizeof(decimalPoint),
    decimalPoint);
}
}
/*************************************************************************/
* trio_locale_set_thousand_separator
*/
TRIO_PUBLIC void
trio_locale_set_thousand_separator
TRIO_ARGS1((thousandSeparator),
        char *thousandSeparator)
{
#if defined(USE_LOCALE)
if (NULL == internalLocaleValues)
{
    TrioSetLocale();
}
#endif
trio_copy_max(internalThousandSeparator, sizeof(internalThousandSeparator), thousandSeparator);
internalThousandSeparatorLength = trio_length(internalThousandSeparator);
}

/*************************************************************************/
* trio_locale_set_grouping
*/
TRIO_PUBLIC void
trio_locale_set_grouping
TRIO_ARGS1((grouping),
        char *grouping)
{
#if defined(USE_LOCALE)
if (NULL == internalLocaleValues)
{
    TrioSetLocale();
}
#endif
trio_copy_max(internalGrouping, sizeof(internalGrouping), grouping);
}
/* SCANNING */

/*************************************************************************/

TRIO_PRIVATE int
TrioSkipWhitespaces
TRIO_ARGS1((self),
    trio_class_t *self)
{
    int ch;

    ch = self->current;
    while (isspace(ch))
    {
        self->InStream(self, &ch);
    }
    return ch;
}

/*************************************************************************/

/* TrioGetCollation */

#if TRIO_EXTENSION
TRIO_PRIVATE void
TrioGetCollation(TRIO_NOARGS)
{
    int i;
    int j;
    int k;
    char first[2];
    char second[2];

    /* This is computationally expensive */
    first[1] = NIL;
    second[1] = NIL;
    for (i = 0; i < MAX_CHARACTER_CLASS; i++)
    {
        k = 0;
        first[0] = (char)i;
    
    /* Continue the implementation here... */
    }

    /* Return the results... */
    self->setCollation(first, second);
}

/*************************************************************************/

/* TrioGetCollation */

/* Continue the implementation here... */

/* Return the results... */
self->setCollation(first, second);

for (j = 0; j < MAX_CHARACTER_CLASS; j++)
{
    second[0] = (char)j;
    if (trio_equalLocale(first, second))
        internalCollationArray[i][k++] = (char)j;
}
    internalCollationArray[i][k] = NIL;
}
}
#endif

/**************************************************************************
* TrioGetCharacterClass
*
* FIXME:
*  multibyte
*/
TRIO_PRIVATE int
TrioGetCharacterClass
TRIO_ARGS4((format, indexPointer, flagsPointer, characterclass),
    TRIO_CONST char *format,
    int *indexPointer,
    trio_flags_t *flagsPointer,
    int *characterclass)
{
    int index = *indexPointer;
    int i;
    char ch;
    char range_begin;
    char range_end;

    *flagsPointer &= ~FLAGS_EXCLUDE;

    if (format[index] == QUALIFIER_CIRCUMFLEX)
    {
        *flagsPointer |= FLAGS_EXCLUDE;
        index++;
    }
    /*
    * If the ungroup character is at the beginning of the scanlist,
    * it will be part of the class, and a second ungroup character
    * must follow to end the group.
    */
    if (format[index] == SPECIFIER_UNGROUP)
    {
        characterclass[(int)SPECIFIER_UNGROUP]++;
        index++;
    }
/*
 * Minus is used to specify ranges. To include minus in the class,
 * it must be at the beginning of the list
 */

if (format[index] == QUALIFIER_MINUS)
{
    characterclass[(int)QUALIFIER_MINUS]++;
    index++;
}

/* Collect characters */
for (ch = format[index];
    (ch != SPECIFIER_UNGROUP) && (ch != NIL);
    ch = format[++index])
{
    switch (ch)
{
    case QUALIFIER_MINUS: /* Scanlist ranges */

    /*
    * Both C99 and UNIX98 describes ranges as implementation-
    * defined.
    *
    * We support the following behaviour (although this may
    * change as we become wiser)
    * - only increasing ranges, ie. [a-b] but not [b-a]
    * - transitive ranges, ie. [a-b-c] == [a-c]
    * - trailing minus, ie. [a-] is interpreted as an 'a'
    * and a '-'
    * - duplicates (although we can easily convert these
    * into errors)
    */
    range_begin = format[index - 1];
    range_end = format[++index];
    if (range_end == SPECIFIER_UNGROUP)
    {
        /* Trailing minus is included */
        characterclass[(int)ch]++;
        ch = range_end;
        break; /* for */
    }
    if (range_end == NIL)
        return TRIO_ERROR_RETURN(TRIO EINVAL, index);
    if (range_begin > range_end)
        return TRIO_ERROR_RETURN(TRIO ERANGE, index);

    for (i = (int)range_begin; i <= (int)range_end; i++)
        characterclass[i]++;

}
ch = range_end;
break;

#if TRIO_EXTENSION

case SPECIFIER_GROUP:

switch (format[index + 1])
{
    case QUALIFIER_DOT: /* Collating symbol */
        /*
         * FIXME: This will be easier to implement when multibyte
         * characters have been implemented. Until now, we ignore
         * this feature.
         */
        for (i = index + 2; ; i++)
        {
            if (format[i] == NIL)
                /* Error in syntax */
                return -1;
            else if (format[i] == QUALIFIER_DOT)
                break; /* for */
        }
    if (format[++i] != SPECIFIER_UNGROUP)
        return -1;

    index = i;
    break;

    case QUALIFIER_EQUAL: /* Equivalence class expressions */
        {
            unsigned int j;
            unsigned int k;

            if (internalCollationUnconverted)
            {
                /* Lazy evaluation of collation array */
                TrioGetCollation();
                internalCollationUnconverted = FALSE;
            }
            for (i = index + 2; ; i++)
            {
                if (format[i] == NIL)
                    /* Error in syntax */
                    return -1;
                else if (format[i] == QUALIFIER_EQUAL)
                    break; /* for */
                else
{
    /* Mark any equivalent character */
    k = (unsigned int)format[i];
    for (j = 0; internalCollationArray[k][j] != NIL; j++)
        characterclass[(int)internalCollationArray[k][j]]++;
    }

    if (format[++i] != SPECIFIER_UNGROUP)
        return -1;

    index = i;
    break;

    case QUALIFIER_COLON: /* Character class expressions */

        if (trio_equal_max(CLASS_ALNUM, sizeof(CLASS_ALNUM) - 1, &format[index]))
            {
            for (i = 0; i < MAX_CHARACTER_CLASS; i++)
                if (isalnum(i))
                    characterclass[i]++;
            index += sizeof(CLASS_ALNUM) - 1;
            }
            else if (trio_equal_max(CLASS_ALPHA, sizeof(CLASS_ALPHA) - 1, &format[index]))
            {
            for (i = 0; i < MAX_CHARACTER_CLASS; i++)
                if (isalpha(i))
                    characterclass[i]++;
            index += sizeof(CLASS_ALPHA) - 1;
            }
            else if (trio_equal_max(CLASS_CNTRL, sizeof(CLASS_CNTRL) - 1, &format[index]))
            {
            for (i = 0; i < MAX_CHARACTER_CLASS; i++)
                if (iscntrl(i))
                    characterclass[i]++;
            index += sizeof(CLASS_CNTRL) - 1;
            }
            else if (trio_equal_max(CLASS_DIGIT, sizeof(CLASS_DIGIT) - 1, &format[index]))
            {
            for (i = 0; i < MAX_CHARACTER_CLASS; i++)
                if (isdigit(i))
                    characterclass[i]++;
            index += sizeof(CLASS_DIGIT) - 1;
            }
else if (trio_equal_max(CLASS_GRAPH, sizeof(CLASS_GRAPH) - 1, &format[index]))
{
    for (i = 0; i < MAX_CHARACTER_CLASS; i++)
        if (isgraph(i))
            characterclass[i]++;
    index += sizeof(CLASS_GRAPH) - 1;
}
else if (trio_equal_max(CLASS_LOWER, sizeof(CLASS_LOWER) - 1, &format[index]))
{
    for (i = 0; i < MAX_CHARACTER_CLASS; i++)
        if (islower(i))
            characterclass[i]++;
    index += sizeof(CLASS_LOWER) - 1;
}
else if (trio_equal_max(CLASS_PRINT, sizeof(CLASS_PRINT) - 1, &format[index]))
{
    for (i = 0; i < MAX_CHARACTER_CLASS; i++)
        if (isprint(i))
            characterclass[i]++;
    index += sizeof(CLASS_PRINT) - 1;
}
else if (trio_equal_max(CLASS_PUNCT, sizeof(CLASS_PUNCT) - 1, &format[index]))
{
    for (i = 0; i < MAX_CHARACTER_CLASS; i++)
        if (ispunct(i))
            characterclass[i]++;
    index += sizeof(CLASS_PUNCT) - 1;
}
else if (trio_equal_max(CLASS_SPACE, sizeof(CLASS_SPACE) - 1, &format[index]))
{
    for (i = 0; i < MAX_CHARACTER_CLASS; i++)
        if (isspace(i))
            characterclass[i]++;
    index += sizeof(CLASS_SPACE) - 1;
}
else if (trio_equal_max(CLASS_UPPER, sizeof(CLASS_UPPER) - 1, &format[index]))
{
    for (i = 0; i < MAX_CHARACTER_CLASS; i++)
        if (isupper(i))
            characterclass[i]++;
    index += sizeof(CLASS_UPPER) - 1;
}
else if (trio_equal_max(CLASS_XDIGIT, sizeof(CLASS_XDIGIT) - 1, &format[index]))
{
    for (i = 0; i < MAX_CHARACTER_CLASS; i++)
        if (isxdigit(i))
            characterclass[i]++;
    index += sizeof(CLASS_XDIGIT) - 1;
} else
{
    characterclass[(int)ch]++;
} break;

default:
    characterclass[(int)ch]++;
    break;
} break;

#endif /* TRIO_EXTENSION */

default:
    characterclass[(int)ch]++;
    break;
} }
return 0;
}

/**************************************************************************
* TrioReadNumber
*
* We implement our own number conversion in preference of strtol and
* strtoul, because we must handle 'long long' and thousand separators.
* /
* TRIO_PRIVATE BOOLEAN_T
TrioReadNumber
TRIO_ARGS5((self, target, flags, width, base),
    trio_class_t *self,
    trio_uintmax_t *target,
    trio_flags_t flags,
    int width,
    int base)
{
    trio_uintmax_t number = 0;
    int digit;
    int count;
BOOLEAN_T isNegative = FALSE;
BOOLEAN_T gotNumber = FALSE;
int j;

assert(VALID(self));
assert(VALID(self->InStream));
assert((base >= MIN_BASE && base <= MAX_BASE) || (base == NO_BASE));

if (internalDigitsUnconverted)
{
   /* Lazy evaluation of digits array */
   memset(internalDigitArray, -1, sizeof(internalDigitArray));
   for (j = 0; j < (int)sizeof(internalDigitsLower) - 1; j++)
   {
      internalDigitArray[(int)internalDigitsLower[j]] = j;
      internalDigitArray[(int)internalDigitsUpper[j]] = j;
   }
   internalDigitsUnconverted = FALSE;
}

TrioSkipWhitespaces(self);

if (! (flags & FLAGS_UNSIGNED))
{
   /* Leading sign */
   if (self->current == '+')
   {
      self->InStream(self, NULL);
   }
   else if (self->current == '-')
   {
      self->InStream(self, NULL);
      isNegative = TRUE;
   }
}

count = self->processed;

if (flags & FLAGS_ALTERNATIVE)
{
   switch (base)
   {
   case NO_BASE:
   case BASE_OCTAL:
   case BASE_HEX:
   case BASE_BINARY:
      if (self->current == '0')
      {
      
   
}
self->InStream(self, NULL);
if (self->current)
{
  if ((base == BASE_HEX) &&
      (trio_to_upper(self->current) == 'X'))
  {
    self->InStream(self, NULL);
  }
  else if ((base == BASE_BINARY) &&
            (trio_to_upper(self->current) == 'B'))
  {
    self->InStream(self, NULL);
  }
  else
    return FALSE;
break;
default:
  break;
}
}

while (((width == NO_WIDTH) || (self->processed - count < width)) &&
(! ((self->current == EOF) || isspace(self->current)))
{
  if (isascii(self->current))
  {
    digit = internalDigitArray[self->current];
    /* Abort if digit is not allowed in the specified base */
    if (((digit == -1) || (digit >= base))
        break;
    }
  else if (flags & FLAGS_QUOTE)
  {
    /* Compare with thousands separator */
    for (j = 0; internalThousandSeparator[j] && self->current; j++)
    {
      if (internalThousandSeparator[j] != self->current)
        break;
    }
    if (internalThousandSeparator[j])
      break; /* Mismatch */
    else
      continue; /* Match */
  }
}
else
    break;

    number *= base;
    number += digit;
    gotNumber = TRUE; /* we need at least one digit */
    self->InStream(self, NULL);
}

/* Was anything read at all? */
if (!gotNumber)
    return FALSE;

if (target)
    *target = (isNegative) ? -((trio_intmax_t)number) : number;
return TRUE;

/*************************************************************************
 * TrioReadChar
 */
TRIO_PRIVATE int
TrioReadChar
TRIO_ARGS4((self, target, flags, width),
  trio_class_t *self,
  char *target,
  trio_flags_t flags,
  int width)
{
  int i;
  char ch;
  trio_uintmax_t number;

  assert(VALID(self));
  assert(VALID(self->InStream));

  for (i = 0;
      (self->current != EOF) && (i < width);
      i++)
  {
    ch = (char)self->current;
    self->InStream(self, NULL);
    if ((flags & FLAGS_ALTERNATIVE) && (ch == CHAR_BACKSLASH))
    {
      switch (self->current)
      {
        case \: ch = \; break;
case 'a': ch = '\007'; break;
case 'b': ch = '\b'; break;
case 'f': ch = '\f'; break;
case 'n': ch = '\n'; break;
case 'r': ch = '\r'; break;
case 't': ch = '\t'; break;
case 'v': ch = '\v'; break;
default:
    if (isdigit(self->current))
    {
        /* Read octal number */
        if (!TrioReadNumber(self, &number, 0, 3, BASE_OCTAL))
            return 0;
        ch = (char)number;
        else if (trio_to_upper(self->current) == 'X')
        {
            /* Read hexadecimal number */
            self->InStream(self, NULL);
            if (!TrioReadNumber(self, &number, 0, 2, BASE_HEX))
                return 0;
            ch = (char)number;
            else
            {
                ch = (char)self->current;
            }
            break;
        }
        if (target)
            target[i] = ch;
        return i + 1;
    }

/*************************************************************************/
/* TrioReadString */
TRIO_PRIVATE BOOLEAN_T
TrioReadString
TRIO_ARGS4((self, target, flags, width),
    trio_class_t *self,
    char *target,
    trio_flags_t flags,
    int width)
{
int i;

assert(VALID(self));
assert(VALID(self->InStream));

TrioSkipWhitespaces(self);

/*
 * Continue until end of string is reached, a whitespace is encountered,
 * or width is exceeded
 */
for (i = 0;
 (width == NO_WIDTH) || (i < width) &&
 (! (self->current == EOF) || isspace(self->current));
 i++)
 {
 if (TrioReadChar(self, (target ? &target[i] : 0), flags, 1) == 0)
 break; /* for */
 }
if (target)
 target[i] = NIL;
return TRUE;
}
i++)
{
  if (isascii(self->current))
  {
    if (TrioReadChar(self, buffer, flags, 1) == 0)
      return 0;
    buffer[1] = NIL;
  }
  else
  {
    /*
     * Collect a multibyte character, by enlarging buffer until
     * it contains a fully legal multibyte character, or the
     * buffer is full.
     */
    j = 0;
    do
    {
      buffer[j++] = (char)self->current;
      buffer[j] = NIL;
      self->InStream(self, NULL);
    }
    while ((j < (int)sizeof(buffer)) && (mblen(buffer, (size_t)j) != j));
  }
  if (target)
  {
    size = mbtowc(&wch, buffer, sizeof(buffer));
    if (size > 0)
      target[i] = wch;
  }
  amount += size;
  self->InStream(self, NULL);
}
return amount;
#endif /* TRIO_WIDECHAR */

/*************************************************************************/
/* TrioReadWideString */
#if TRIO_WIDECHAR
TRIO_PRIVATE BOOLEAN_T
TrioReadWideString
TRIO_ARGS4((self, target, flags, width),
trio_class_t *self,
trio_wchar_t *target,
trio_flags_t flags,
int width)
{  
  int i;  
  int size;  

  assert(VALID(self));  
  assert(VALID(self->InStream));  

  TrioSkipWhitespaces(self);  

  #if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)  
  (void)mblen(NULL, 0);  
  #endif

  /*  
   * Continue until end of string is reached, a whitespace is encountered,  
   * or width is exceeded  
   */  
  for (i = 0;  
   ((width == NO_WIDTH) || (i < width)) &&  
   (! ((self->current == EOF) || isspace(self->current))));  
  {  
    size = TrioReadWideChar(self, &target[i], flags, 1);  
    if (size == 0)  
      break; /* for */  
    i += size;  
  }  
  if (target)  
    target[i] = WCONST('\0');  
  return TRUE;  
}  
#endif /* TRIO_WIDECHAR */

/****************************************************************************  
* TrioReadGroup  
*  
* FIXME: characterclass does not work with multibyte characters  
*/  
TRIO_PRIVATE BOOLEAN_T  
TrioReadGroup  
TRIO_ARGS5((self, target, characterclass, flags, width),  
  trio_class_t *self,  
  char *target,  
  int *characterclass,  
  trio_flags_t flags,  
  int width)  
}
int ch;
int i;

assert(VALID(self));
assert(VALID(self->InStream));

ch = self->current;
for (i = 0;
     ((width == NO_WIDTH) || (i < width)) &&
     (! ((ch == EOF) ||
         ((flags & FLAGS_EXCLUDE) != 0) ^ (characterclass[ch] == 0))));
     i++)
{
    if (target)
        target[i] = (char)ch;
    self->InStream(self, &ch);
}

if (target)
    target[i] = NIL;
return TRUE;
}

/***************************************************************************
* TrioReadDouble
*
* FIXME:
*  add long double
*  handle base
*/
TRIO_PRIVATE BOOLEAN_T
TrioReadDouble
TRIO_ARGS4((self, target, flags, width),
    trio_class_t *self,
    trio_pointer_t target,
    trio_flags_t flags,
    int width)
{
    int ch;
    char doubleString[512];
    int index = 0;
    int start;
    int j;
    BOOLEAN_T isHex = FALSE;

    doubleString[0] = 0;

    if (((width == NO_WIDTH) || (width > (int)sizeof(doubleString) - 1))
width = sizeof(doubleString) - 1;

TrioSkipWhitespaces(self);

/*
 * Read entire double number from stream. trio_to_double requires
 * a string as input, but InStream can be anything, so we have to
 * collect all characters.
 */
ch = self->current;
if ((ch == '+') || (ch == '-'))
{
    doubleString[index++] = (char)ch;
    self->InStream(self, &ch);
    width--;
}

start = index;
switch (ch)
{
    case 'n':
    case 'N':
        /* Not-a-number */
        if (index != 0)
            break;
        /* FALLTHROUGH */
        case 'i':
        case 'I':
            /* Infinity */
            while (isalpha(ch) && (index - start < width))
            {
                doubleString[index++] = (char)ch;
                self->InStream(self, &ch);
            }
            doubleString[index] = NIL;
            /* Case insensitive string comparison */
            if (trio_equal(&doubleString[start], INFINITE_UPPER) ||
                trio_equal(&doubleString[start], LONG_INFINITE_UPPER))
            {
                if (flags & FLAGS_LONGDOUBLE)
                {
                    if ((start == 1) && (doubleString[0] == '-'))
                    {
                        *((trio_long_double_t *)target) = trio_ninf();
                    }
                }
            }
}
*((trio_long_double_t *)target) = trio_pinf();
}
else
{
    if ((start == 1) && (doubleString[0] == '-'))
    {
        *((double *)target) = trio_ninf();
    }
    else
    {
        *((double *)target) = trio_pinf();
    }
}
return TRUE;
}
if (trio_equal(doubleString, NAN_UPPER))
{
    /* NaN must not have a preceding + nor - */
    if (flags & FLAGS_LONGDOUBLE)
    {
        *((trio_long_double_t *)target) = trio_nan();
    }
    else
    {
        *((double *)target) = trio_nan();
    }
    return TRUE;
}
return FALSE;

case '0':
doubleString[index++] = (char)ch;
self->InStream(self, &ch);
if (trio_to_upper(ch) == 'X')
{
    isHex = TRUE;
    doubleString[index++] = (char)ch;
    self->InStream(self, &ch);
}
break;

default:
    break;
}

while ((ch != EOF) && (index - start < width))
{

/* Integer part */
if (isHex ? isxdigit(ch) : isdigit(ch))
{
    doubleString[index++] = (char)ch;
    self->InStream(self, &ch);
}
else if (flags & FLAGS_QUOTE)
{
    /* Compare with thousands separator */
    for (j = 0; internalThousandSeparator[j] && self->current; j++)
    {
        if (internalThousandSeparator[j] != self->current)
            break;
    }
    if (internalThousandSeparator[j])
        break; /* Mismatch */
    else
        continue; /* Match */
}
else
    break; /* while */
}
if (ch == '.')
{
    /* Decimal part */
    doubleString[index++] = (char)ch;
    self->InStream(self, &ch);
    while ((isHex ? isxdigit(ch) : isdigit(ch)) &&
            (index - start < width))
    {
        doubleString[index++] = (char)ch;
        self->InStream(self, &ch);
    }
    if (isHex ? (trio_to_upper(ch) == 'P') : (trio_to_upper(ch) == 'E'))
    {
        /* Exponent */
        doubleString[index++] = (char)ch;
        self->InStream(self, &ch);
        if ((ch == '+') || (ch == '-'))
        {
            doubleString[index++] = (char)ch;
            self->InStream(self, &ch);
        }
        while (isdigit(ch) && (index - start < width))
        {
            doubleString[index++] = (char)ch;
        }
    }
}
self->InStream(self, &ch);
}
}

if ((index == start) || (*doubleString == NIL))
    return FALSE;

doubleString[index] = 0;

if (flags & FLAGS_LONGDOUBLE)
{
    *((trio_long_double_t *)target) = trio_to_long_double(doubleString, NULL);
}
else
{
    *((double *)target) = trio_to_double(doubleString, NULL);
}
return TRUE;

/*************************************************************************
* TrioReadPointer
*/
TRIO_PRIVATE BOOLEAN_T
TrioReadPointer
TRIO_ARGS3((self, target, flags),
    trio_class_t *self,
    trio_pointer_t *target,
    trio_flags_t flags)
{
    trio_uintmax_t number;
    char buffer[sizeof(internalNullString)];

    flags |= (FLAGS UNSIGNED | FLAGS_ALTERNATIVE | FLAGS NILPADDING);

    if (TrioReadNumber(self,
        &number,
        flags,
        POINTER_WIDTH,
        BASE_HEX))
    {
        /*
         * The strange assignment of number is a workaround for a compiler
         * warning
         */
        if (target)
            *target = (char *)0 + number;
        }}
return TRUE;
}
else if (TrioReadString(self,
(flags & FLAGS_IGNORE)
? NULL
: buffer,
0,
sizeof(internalNullString) - 1))
{
    if (trio_equal_case(buffer, internalNullString))
    {
        if (target)
            *target = NULL;
        return TRUE;
    }
}
return FALSE;

/**************************************************************************
* TrioScanProcess
*/
TRIO_PRIVATE int
TrioScanProcess
TRIO_ARGS3((data, format, parameters),
    trio_class_t *data,
    TRIO_CONST char *format,
    trio_parameter_t *parameters)
{
    #if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
    int charlen;
    int cnt;
    #endif
    int assignment;
    int ch;
    int index; /* Index of format string */
    int i; /* Index of current parameter */
    trio_flags_t flags;
    int width;
    int base;
    trio_pointer_t pointer;

    assignment = 0;
    i = 0;
    index = 0;
    data->InStream(data, &ch);

    #if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
(void)mblen(NULL, 0);
#endif

while (format[index])
{
#if defined(TRIO_COMPILER_SUPPORTS_MULTIBYTE)
    if (! isascii(format[index]))
    {
        charlen = mblen(&format[index], MB_LEN_MAX);
        if (charlen != -1)
        {
            /* Compare multibyte characters in format string */
            for (cnt = 0; cnt < charlen - 1; cnt++)
            {
                if (ch != format[index + cnt])
                {
                    return TRIO_ERROR_RETURN(TRIO EINVAL, index);
                }
            }
            data->InStream(data, &ch);
        }
        continue; /* while characters left in formatting string */
    }
#endif /* TRIO_COMPILER_SUPPORTS_MULTIBYTE */

    if ((EOF == ch) && (parameters[i].type != FORMAT_COUNT))
    {
        return (assignment > 0) ? assignment : EOF;
    }

    if (CHAR IDENTIFIER == format[index])
    {
        if (CHAR IDENTIFIER == format[index + 1])
        {
            /* Two % in format matches one % in input stream */
            if (CHAR IDENTIFIER == ch)
            {
                data->InStream(data, &ch);
                index += 2;
                continue; /* while format chars left */
            }
        }
    }

    else
    return TRIO_ERROR_RETURN(TRIO EINVAL, index);
}

/* Skip the parameter entries */
while (parameters[i].type == FORMAT_PARAMETER)
i++;

Open Source Used In Cisco FXOS Security Module 2.2(x) and Cisco ASA Series 9.8(x)
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flags = parameters[i].flags;
/* Find width */
width = parameters[i].width;
if (flags & FLAGS_WIDTH_PARAMETER)
{
    /* Get width from parameter list */
    width = (int)parameters[width].data.number.as_signed;
}
/* Find base */
base = parameters[i].base;
if (flags & FLAGS_BASE_PARAMETER)
{
    /* Get base from parameter list */
    base = (int)parameters[base].data.number.as_signed;
}
switch (parameters[i].type)
{
    case FORMAT_INT:
    {
        trio_uintmax_t number;

        if (0 == base)
            base = BASE_DECIMAL;

        if (!TrioReadNumber(data,
                            &number,
                            flags,
                            width,
                            base))
            return assignment;

        if (!(flags & FLAGS_IGNORE))
        {
            assignment++;

            pointer = parameters[i].data.pointer;
            #if defined(QUALIFIER_SIZE_T) || defined(QUALIFIER_SIZE_T_UPPER)
                if (flags & FLAGS_SIZE_T)
                    *(size_t *)pointer = (size_t)number;
                else
            #endif
            #if defined(QUALIFIER_PTRDIFF_T)
                if (flags & FLAGS_PTRDIFF_T)
                    *(ptrdiff_t *)pointer = (ptrdiff_t)number;
                else
            #endif
            }
#if defined(QUALIFIER_INTMAX_T)
    if (flags & FLAGS_INTMAX_T)
        *(trio_intmax_t *)pointer = (trio_intmax_t)number;
    else
#endif
    if (flags & FLAGS_QUAD)
        *(trio_ulonglong_t *)pointer = (trio_ulonglong_t)number;
    else if (flags & FLAGS_LONG)
        *(long int *)pointer = (long int)number;
    else if (flags & FLAGS_SHORT)
        *(short int *)pointer = (short int)number;
    else
        *(int *)pointer = (int)number;
}
break; /* FORMAT_INT */

case FORMAT_STRING:
#if TRIO_WIDECHAR
    if (flags & FLAGS_WIDECHAR)
    {
        if (!TrioReadWideString(data, 
            (flags & FLAGS_IGNORE) ? NULL : parameters[i].data.wstring, 
            flags, 
            width)) 
            return assignment;
    }
    else
#endif
    {
        if (!TrioReadString(data, 
            (flags & FLAGS_IGNORE) ? NULL : parameters[i].data.string, 
            flags, 
            width))
            return assignment;
    }
    if (!(flags & FLAGS_IGNORE))
        assignment++;
    break; /* FORMAT_STRING */

    case FORMAT_DOUBLE:
    {
        trio_pointer_t pointer;
if (flags & FLAGS_IGNORE)
{
    pointer = NULL;
}
else
{
    pointer = (flags & FLAGS_LONGDOUBLE)
? (trio_pointer_t)parameters[i].data.longdoublePointer
: (trio_pointer_t)parameters[i].data.doublePointer;
}
if (!TrioReadDouble(data, pointer, flags, width))
{
    return assignment;
}
if (!flags & FLAGS_IGNORE)
{
    assignment++;  
    break; /* FORMAT_DOUBLE */
    }
    case FORMAT_GROUP:
    {
    int characterclass[MAX_CHARACTER_CLASS + 1];
    int rc;

    /* Skip over modifiers */
    while (format[index] != SPECIFIER_GROUP)
    {
        index++;
    }
    /* Skip over group specifier */
    index++;

    memset(characterclass, 0, sizeof(characterclass));
    rc = TrioGetCharacterClass(format,
    &index,
    &flags,
    characterclass);
    if (rc < 0)
    return rc;

    if (!TrioReadGroup(data,
    (flags & FLAGS_IGNORE)
? NULL
: parameters[i].data.string,
    characterclass,
    flags,
    parameters[i].width))
return assignment;
if (!(flags & FLAGS_IGNORE))
    assignment++;
}
break; /* FORMAT_GROUP */

case FORMAT_COUNT:
    pointer = parameters[i].data.pointer;
    if (NULL != pointer)
    {
        int count = data->committed;
        if (ch != EOF)
            count--; /* a character is read, but is not consumed yet */
#if defined(QUALIFIER_SIZE_T) || defined(QUALIFIER_SIZE_T_UPPER)
    if (flags & FLAGS_SIZE_T)
        *(size_t *)pointer = (size_t)count;
    else
#endif
    #if defined(QUALIFIER_PTRDIFF_T)
    if (flags & FLAGS_PTRDIFF_T)
        *(ptrdiff_t *)pointer = (ptrdiff_t)count;
    else
    #endif
    #if defined(QUALIFIER_INTMAX_T)
    if (flags & FLAGS_INTMAX_T)
        *(trio_intmax_t *)pointer = (trio_intmax_t)count;
    else
    #endif
    if (flags & FLAGS_QUAD)
    {
        *(trio_ulonglong_t *)pointer = (trio_ulonglong_t)count;
    }
    else if (flags & FLAGS_LONG)
    {
        *(long int *)pointer = (long int)count;
    }
    else if (flags & FLAGS_SHORT)
    {
        *(short int *)pointer = (short int)count;
    }
    else
    {
        *(int *)pointer = (int)count;
    }
} 
break; /* FORMAT_COUNT */

case FORMAT_CHAR:
#if TRIO_WIDECHAR
    if (flags & FLAGS_WIDECHAR)
    {
        if (TrioReadWideChar(data,
            (flags & FLAGS_IGNORE)
            ? NULL
            : parameters[i].data.wstring,
            flags,
            (width == NO_WIDTH) ? 1 : width) == 0)
            return assignment;
    }
    else
#endif
{
    if (TrioReadChar(data,
            (flags & FLAGS_IGNORE)
            ? NULL
            : parameters[i].data.string,
            flags,
            (width == NO_WIDTH) ? 1 : width) == 0)
            return assignment;
    }
    if (!(flags & FLAGS_IGNORE))
        assignment++;
    break; /* FORMAT_CHAR */

    case FORMAT_POINTER:
        if (!TrioReadPointer(data,
            (flags & FLAGS_IGNORE)
            ? NULL
            : (trio_pointer_t *)parameters[i].data.pointer,
            flags))
            return assignment;
        if (!(flags & FLAGS_IGNORE))
            assignment++;
        break; /* FORMAT_POINTER */

    case FORMAT_PARAMETER:
        break; /* FORMAT_PARAMETER */

    default:
        return TRIO_ERROR_RETURN(TRIO_EINVAL, index);
    }
    ch = data->current;
    index = parameters[i].indexAfterSpecifier;
    i++;
}  /* Not an % identifier */
if (isspace((int)format[index]))
{
/* Whitespaces may match any amount of whitespaces */
    ch = TrioSkipWhitespaces(data);
}
else if (ch == format[index])
{
    data->InStream(data, &ch);
}
else
    return assignment;

index++;
}
}
return assignment;

/**************************************************************************
* TrioScan
*/
TRIO_PRIVATE int
TrioScan
TRIO_ARGS6((source, sourceSize, InStream, format, arglist, argarray),
    trio_pointer_t source,
    size_t sourceSize,
    void (*InStream) TRIO_PROTO((trio_class_t *, int *)),
    TRIO_CONST char *format,
    va_list *arglist,
    trio_pointer_t *argarray)
{
    int status;
    trio_parameter_t parameters[MAX_PARAMETERS];
    trio_class_t data;

    assert(VALID(InStream));
    assert(VALID(format));

    memset(&data, 0, sizeof(data));
    data.InStream = InStream;
    data.location = (trio_pointer_t)source;
    data.max = sourceSize;
    data.error = 0;

    #if defined(USE_LOCALE)
    if (NULL == internalLocaleValues)
    {

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TrioSetLocale();
}
#endif

status = TrioParse(TYPE_SCAN, format, parameters, arglist, argarray);
if (status < 0)
    return status;

status = TrioScanProcess(&data, format, parameters);
if (data.error != 0)
{
    status = data.error;
}
return status;

/***************************************************************************/
/* TrioInStreamFile */
TRIO_PRIVATE void TrioInStreamFile
TRIO_ARGS2((self, intPointer),
    trio_class_t *self,
    int *intPointer)
{
    FILE *file = (FILE *)self->location;

    assert(VALID(self));
    assert(VALID(file));

    self->current = fgetc(file);
    if (self->current == EOF)
    {
        self->error = (ferror(file))
? TRIO_ERROR_RETURN(TRIO_ERRNO, 0)
: TRIO_ERROR_RETURN(TRIO_EOF, 0);
    }
    else
    {
        self->processed++;
        self->committed++;
    }

    if (VALID(intPointer))
    {
        *intPointer = self->current;
    }
}
TrioInStreamFileDescriptor

TRIO_PRIVATE void
TrioInStreamFileDescriptor
TRIO_ARGS2((self, intPointer),
    trio_class_t *self,
    int *intPointer)
{
    int fd = *((int *)self->location);
    int size;
    unsigned char input;

    assert(VALID(self));

    size = read(fd, &input, sizeof(char));
    if (size == -1)
    {
        self->error = TRIO_ERROR_RETURN(TRIO_ERRNO, 0);
        self->current = EOF;
    } else
    {
        self->current = (size == 0) ? EOF : input;
    }
    if (self->current != EOF)
    {
        self->committed++;
        self->processed++;
    }
    if (VALID(intPointer))
    {
        *intPointer = self->current;
    }
}

TrioInStreamCustom

TRIO_PRIVATE void
TrioInStreamCustom
TRIO_ARGS2((self, intPointer),
    trio_class_t *self,
    int *intPointer)
{
    trio_custom_t *data;

assert(VALID(self));
assert(VALID(self->location));

data = (trio_custom_t *)self->location;

self->current = (data->stream.in == NULL)
? NIL
: (data->stream.in)(data->closure);

if (self->current == NIL)
{
    self->current = EOF;
}
else
{
    self->processed++;
    self->committed++;
}

if (VALID(intPointer))
{
    *intPointer = self->current;
}

/*****************
 * TrioInStreamString
 */
TRIO_PRIVATE void
TrioInStreamString
TRIO_ARGS2((self, intPointer),
    trio_class_t *self,
    int *intPointer)
{
    unsigned char **buffer;

    assert(VALID(self));
    assert(VALID(self->location));

    buffer = (unsigned char **)self->location;
    self->current = (*buffer)[0];
    if (self->current == NIL)
    {
        self->current = EOF;
    }
    else
    {

(*buffer)++;
    self->processed++;
    self->committed++;
    }
}

if (VALID(intPointer))
    {
    *intPointer = self->current;
    }
}

/*************************************************************************/
* Formatted scanning functions
*************************************************************************/

#if defined(TRIO_DOCUMENTATION)
#include "doc/doc_scanf.h"
#endif
/** @addtogroup Scanf
@{*/

/*************************************************************************/
* scanf
*/

/**
    Scan characters from standard input stream.

    @param format Formatting string.
    @param ... Arguments.
    @return Number of scanned characters.
*/
TRIO_PUBLIC int
trio_scanf
TRIO_VARGS2((format, va_alist),
TRIO_CONST char *format,
TRIO_VA_DECL)
    {
int status;
va_list args;

assert(VALID(format));

TRIO_VA_START(args, format);
status = TrioScan((trio_pointer_t)stdin, 0,
TrioInStreamFile,
    format, &args, NULL);
TRIO_VA_END(args);
return status;
}

TRIO_PUBLIC int
trio_vscanf
TRIO_ARGS2((format, args),
    TRIO_CONST char *format,
    va_list args)
{
    assert(VALID(format));

    return TrioScan((trio_pointer_t)stdin, 0,
        TrioInStreamFile,
        format, &args, NULL);
}

TRIO_PUBLIC int
trio_scanfv
TRIO_ARGS2((format, args),
    TRIO_CONST char *format,
    trio_pointer_t *args)
{
    assert(VALID(format));

    return TrioScan((trio_pointer_t)stdin, 0,
        TrioInStreamFile,
        format, NULL, args);
}

/****************************************************************************
* fscanf
*/
TRIO_PUBLIC int
trio_fscanf
TRIO_VARGS3((file, format, va_alist),
    FILE *file,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
    int status;
    va_list args;

    assert(VALID(file));
    assert(VALID(format));
TRIO_VA_START(args, format);
status = TrioScan((trio_pointer_t)file, 0,
    TrioInStreamFile,
    format, &args, NULL);
TRIO_VA_END(args);
return status;
}

TRIO_PUBLIC int
trio_vfscanf
TRIO_ARGS3((file, format, args),
    FILE *file,
    TRIO_CONST char *format,
    va_list args)
{
    assert(VALID(file));
    assert(VALID(format));

    return TrioScan((trio_pointer_t)file, 0,
        TrioInStreamFile,
        format, &args, NULL);
}

TRIO_PUBLIC int
trio_fscanfv
TRIO_ARGS3((file, format, args),
    FILE *file,
    TRIO_CONST char *format,
    trio_pointer_t *args)
{
    assert(VALID(file));
    assert(VALID(format));

    return TrioScan((trio_pointer_t)file, 0,
        TrioInStreamFile,
        format, NULL, args);
}

/****************************************************************************
* dscanf
*/
TRIO_PUBLIC int
trio_dscanf
TRIO_VARGS3((fd, format, va_alist),
    int fd,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
int status;
va_list args;

assert(VALID(format));

TRIO_VA_START(args, format);
status = TrioScan((trio_pointer_t)&fd, 0,
   TrioInStreamFileDescriptor,
   format, &args, NULL);
TRIO_VA_END(args);
return status;
}

TRIO_PUBLIC int
trio_vdscanf
TRIO_ARGS3((fd, format, args),
   int fd,
   TRIO_CONST char *format,
   va_list args)
{
   assert(VALID(format));

   return TrioScan((trio_pointer_t)&fd, 0,
      TrioInStreamFileDescriptor,
      format, &args, NULL);
}

TRIO_PUBLIC int
trio_dscanfv
TRIO_ARGS3((fd, format, args),
   int fd,
   TRIO_CONST char *format,
   trio_pointer_t *args)
{
   assert(VALID(format));

   return TrioScan((trio_pointer_t)&fd, 0,
      TrioInStreamFileDescriptor,
      format, NULL, args);
}

/*************************************************************************
* cscanf
*/
TRIO_PUBLIC int
trio_cscanf
TRIO_VARGS4((stream, closure, format, va_alist),
   trio_instream_t stream,
trio_pointer_t closure,
TRIO_CONST char *format,
TRIO_VADECL)
{
int status;
va_list args;
trio_custom_t data;

assert(VALID(stream));
assert(VALID(format));

TRIO_VA_START(args, format);
data.stream.in = stream;
data.closure = closure;
status = TrioScan(&data, 0, TrioInStreamCustom, format, &args, NULL);
TRIO_VA_END(args);
return status;
}

TRIO_PUBLIC int
trio_vcscanf
TRIO_ARGS4((stream, closure, format, args),
    trio_instream_t stream,
    trio_pointer_t closure,
    TRIO_CONST char *format,
    va_list args)
{
trio_custom_t data;

assert(VALID(stream));
assert(VALID(format));

data.stream.in = stream;
data.closure = closure;
return TrioScan(&data, 0, TrioInStreamCustom, format, &args, NULL);
}

TRIO_PUBLIC int
trio_cscanfv
TRIO_ARGS4((stream, closure, format, args),
    trio_instream_t stream,
    trio_pointer_t closure,
    TRIO_CONST char *format,
    trio_pointer_t *args)
{
trio_custom_t data;

assert(VALID(stream));
assert(VALID(format));

data.stream.in = stream;
data.closure = closure;
return TrioScan(&data, 0, TrioInStreamCustom, format, NULL, args);
}

/*************************************************************************
* sscanf
*/
TRIO_PUBLIC int
trio_sscanf
TRIO_VARGS3((buffer, format, va_alist),
    TRIO_CONST char *buffer,
    TRIO_CONST char *format,
    TRIO_VA_DECL)
{
    int status;
    va_list args;

    assert(VALID(buffer));
    assert(VALID(format));

    TRIO_VA_START(args, format);
    status = TrioScan((trio_pointer_t)&buffer, 0,
        TrioInStreamString,
        format, &args, NULL);
    TRIO_VA_END(args);
    return status;
}

TRIO_PUBLIC int
trio_vsscanf
TRIO_ARGS3((buffer, format, args),
    TRIO_CONST char *buffer,
    TRIO_CONST char *format,
    va_list args)
{
    assert(VALID(buffer));
    assert(VALID(format));

    return TrioScan((trio_pointer_t)&buffer, 0,
        TrioInStreamString,
        format, &args, NULL);
}

TRIO_PUBLIC int
trio_sscanfv
TRIO_ARGS3((buffer, format, args),
    TRIO_CONST char *buffer,
    TRIO_CONST char *format,
    trio_pointer_t *args)
{
    assert(VALID(buffer));
    assert(VALID(format));

    return TrioScan((trio_pointer_t)&buffer, 0,
        TrioInStreamString,
        format, NULL, args);
}

/** @} End of Scanf documentation module */

/*************************************************************************
* trio_strerror
*/
TRIO_PUBLIC TRIO_CONST char *
trio_strerror
TRIO_ARGS1((errorcode),
        int errorcode)
{
    /* Textual versions of the error codes */
    switch (TRIO_ERROR_CODE(errorcode))
    {
        case TRIO_EOF:
            return "End of file";
        case TRIO_EINVAL:
            return "Invalid argument";
        case TRIO_ETOOMANY:
            return "Too many arguments";
        case TRIO_EDBLREF:
            return "Double reference";
        case TRIO_EGAP:
            return "Reference gap";
        case TRIO_ENOMEM:
            return "Out of memory";
        case TRIO_ERANGE:
            return "Invalid range";
        case TRIO_ECUSTOM:
            return "Custom error";
        default:
            return "Unknown";
    }
}
1.134 libxml2 2.9.1 :Jul 10  2009 Daniel Veillard

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

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

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

That's all there is to it!
/* 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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Mathieu Desnoyers
June 2, 2011

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1.138 lm-sensors 3.3.2 :r1.0

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
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* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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

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

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

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

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

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

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

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

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

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

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must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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1.147 mdadm 3.2.6

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*

1.162 ntp 4.2.8p8

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Replied: Fri, 16 Feb 2001 14:12:54 -0500
Replied: "Darren Reed <darrenr@reed.wattle.id.au> "
Received: from [139.134.6.79] by whimsy.udel.edu id aa15476;
   16 Feb 2001 04:21 EST
Received: from CPE-61-9-164-106.vic.bigpond.net.au
   ([139.134.4.52]) by mailin6.bigpond.com (Netscape Messaging
   Server 4.15) with SMTP id G8UFIB00.4QI for
   <stenn@whimsy.udel.edu>; Fri, 16 Feb 2001 19:25:23 +1000
Received: from CPE-61-9-164-110.vic.bigpond.net.au ([61.9.164.110]) by mail5.bigpond.com (Claudes-Retiring-
   MailRouter V2.9c 9/11963672); 16 Feb 2001 19:20:45

Open Source Used In Cisco FXOS Security Module 2.2(x) and Cisco ASA Series 9.8(x)
In some email I received from Harlan Stenn, sie wrote:

> Darren,
> 
> I'm looking for an async resolver library that I can use with NTP.
> 
> I noticed your code in the contrib/ subdir of later bind8 distribution
> and I noticed the Copyright notice in arlib.c:
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> * of property which results from the use of this software.
> 
> so I thought I'd ask your permission to distribute your files if I can
> figure out how to make it all work with ntpd.

http://coombs.anu.edu.au/~avalon/arlib.tar.gz

a few bug fixes (inc. buffer overflow :) and stuff in there.

But otherwise, go for it.

Darren

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.jpg "Clone me," says Dolly sheepishly.

Last update: 17-Jan-2015 00:16 UTC
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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
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27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
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32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
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46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
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56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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Simple NUMA policy support. It consists of a numactl program to run other programs with a specific NUMA policy and a libnuma shared library ("NUMA API") to set NUMA policy in applications.

The libnuma binary interface is supposed to stay binary compatible. Incompatible changes will use new symbol version numbers.

In addition there are various test and utility programs, like numastat to display NUMA allocation statistics and memhog.

In test there is a small regression test suite.
Note that regress assumes a unloaded machine with memory free on each node. Otherwise you will get spurious failures in the non strict policies (prefered, interleave)

See the manpages numactl.8 and numa.3 for details.

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Version 2.0.8-rc4: (C)2012 SGI

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ABSTRACT

OSSP uuid is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universally Unique Identifiers.
Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

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HOME AND DOCUMENTATION

The documentation and latest release can be found on

o http://www.ossp.org/pkg/lib/uuid/
o ftp://ftp.ossp.org/pkg/lib/uuid/
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1.174 packagegroup-core-boot 1.0 :r17.0

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1.175 Packet allocation and deallocation routines 1.3.2

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<one line to give the program's name and a brief idea of what it does.>
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1.182 pixman 0.30.2 :2ubuntu1

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1.183 pkgconfig 0.28 :3.fc20

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1.184 pm-utils 1.4.1

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// Author: kenton@google.com (Kenton Varda)
// Based on original Protocol Buffers design by
// Sanjay Ghemawat, Jeff Dean, and others.

// Modified to implement C code by Dave Benson.


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

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

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

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

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threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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

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

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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
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 * $FreeBSD: src/sys/sys/queue.h,v 1.32.2.7 2002/04/17 14:21:02 des Exp $
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1.196 queue.h 1.18

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1.197 rand.c 1.6

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1.198 readline 6.2

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1.205 run-postinsts 1.0

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1.207 sed 4.2.2

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1.213 simple 5.1

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1.215 smbfs 1.4

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

/* Bison implementation for Yacc-like parsers in C


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

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

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

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

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

/* Pure parsers. */
#define YYPURE 1

/* Push parsers. */
#define YYPUSH 0

/* Pull parsers. */
#define YYPULL 1

/* Substitute the variable and function names. */
#define yyparse         rewrite_expr_parse
#define yylex           rewrite_expr_lex
#define yyerror         rewrite_expr_error
#define yydebug         rewrite_expr_debug
#define yynerrs         rewrite_expr_nerrs
/* Copy the first part of user declarations. */

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

#ifndef YY_NULLPTR
#define YY_NULLPTR 0
#else
#define YY_NULLPTR nullptr
#endif

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

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

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

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

/* Token type. */
#ifndef YYTOKENTYPE
#define YYTOKENTYPE
enum yylkntype
{
    LL_CONTEXT_ROOT = 1,
    LL_CONTEXT_DESTINATION = 2,
LL_CONTEXT_SOURCE = 3,
LL_CONTEXT_PARSER = 4,
LL_CONTEXT_REWRITE = 5,
LL_CONTEXT_FILTER = 6,
LL_CONTEXT_LOG = 7,
LL_CONTEXT_BLOCK_DEF = 8,
LL_CONTEXT_BLOCK_REF = 9,
LL_CONTEXT_BLOCK_CONTENT = 10,
LL_CONTEXT_BLOCK_ARG = 11,
LL_CONTEXT_PRAGMA = 12,
LL_CONTEXT_FORMAT = 13,
LL_CONTEXT_TEMPLATE_FUNC = 14,
LL_CONTEXT_INNER_DEST = 15,
LL_CONTEXT_INNER_SRC = 16,
LL_CONTEXT_CLIENT_PROTO = 17,
LL_CONTEXT_SERVER_PROTO = 18,
KW_SOURCE = 10000,
KW_FILTER = 10001,
KW_PARSER = 10002,
KW_DESTINATION = 10003,
KW_LOG = 10004,
KW_OPTIONS = 10005,
KW_INCLUDE = 10006,
KW_BLOCK = 10007,
KW_JUNCTION = 10008,
KW_CHANNEL = 10009,
KW_INTERNAL = 10010,
KW_FILE = 10011,
KW_SQL = 10030,
KW_TYPE = 10031,
KW_COLUMNS = 10032,
KW_INDEXES = 10033,
KW_VALUES = 10034,
KW_PASSWORD = 10035,
KW_DATABASE = 10036,
KW_USERNAME = 10037,
KW_TABLE = 10038,
KW_ENCODING = 10039,
KW_SESSION_STMTS = 10040,
KW_DELIMITERS = 10050,
KW_QUOTES = 10051,
KW_QUOTE_PAIRS = 10052,
KW_NULL = 10053,
KW_SYSLOG = 10060,
KW_MARK_FREQ = 10071,
KW_STATS_FREQ = 10072,
KW_STATS_LEVEL = 10073,
KW_STATS_LIFETIME = 10074,
KW_FLUSH_LINES = 10075,
KW_SUPPRESS = 10076,
KW_FLUSH_TIMEOUT = 10077,
KW_LOG_MSG_SIZE = 10078,
KW_FILE_TEMPLATE = 10079,
KWPROTO TEMPLATE = 10080,
KW_MARK_MODE = 10081,
KWCHAIN_HOSTNAMES = 10090,
KW_NORMALIZE_HOSTNAMES = 10091,
KW_KEEP_HOSTNAME = 10092,
KW_CHECK_HOSTNAME = 10093,
KW_BAD_HOSTNAME = 10094,
KWKEEP_TIMESTAMP = 10100,
KW_USE_DNS = 10110,
KW_USE_FQDN = 10111,
KW_CUSTOM_DOMAIN = 10112,
KW_DNS_CACHE = 10120,
KW_DNS_CACHE_SIZE = 10121,
KW_DNS_CACHE_EXPIRE = 10130,
KW_DNS_CACHE_EXPIRE_FAILED = 10131,
KW_DNS_CACHE_HOSTS = 10132,
KW_PERSIST_ONLY = 10140,
KW_USE_RCPTID = 10141,
KW_TZ_CONVERT = 10150,
KW_TS_FORMAT = 10151,
KW_FRAC_DIGITS = 10152,
KW_LOG_FIFO_SIZE = 10160,
KW_LOG_FETCH_LIMIT = 10162,
KW_LOG_IW_SIZE = 10163,
KW_LOG_PREFIX = 10164,
KW_PROGRAM_OVERRIDE = 10165,
KW_HOST_OVERRIDE = 10166,
KW_THROTTLE = 10170,
KW_THREADED = 10171,
KW_FLAGS = 10190,
KW_PAD_SIZE = 10200,
KW_TIME_ZONE = 10201,
KW_RECV_TIME_ZONE = 10202,
KW_SEND_TIME_ZONE = 10203,
KW_LOCAL_TIME_ZONE = 10204,
KW_FORMAT = 10205,
KW_TIME_REOPEN = 10210,
KW_TIME_REAP = 10211,
KW_TIME_SLEEP = 10212,
KW_TMPL_ESCAPE = 10220,
KW_OPTIONAL = 10230,
KW_CREATE_DIRS = 10240,
KW_OWNER = 10250,
KW_GROUP = 10251,
KW_PERM = 10252,
KW_DIR_OWNER = 10260,
KW_DIR_GROUP = 10261,
KW_DIR_PERM = 10262,
KW_TEMPLATE = 10270,
KW_TEMPLATE_ESCAPE = 10271,
KW_DEFAULT_FACILITY = 10300,
KW_DEFAULT_LEVEL = 10301,
KW_PORT = 10323,
KW_USE_TIME_RECVD = 10340,
KW_FACILITY = 10350,
KW_LEVEL = 10351,
KW_HOST = 10352,
KW_MATCH = 10353,
KW_MESSAGE = 10354,
KW_NETMASK = 10355,
KW_TAGS = 10356,
KW_VALUE = 10361,
KW_REWRITE = 10370,
KW_SET = 10371,
KW_SUBST = 10372,
KW_YES = 10380,
KW_NO = 10381,
KW_IFDEF = 10410,
KW_ENDIF = 10411,
LL_DOTDOT = 10420,
LL_DOTDOT = 10421,
LL_NUMERIC = 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_SESSION_STATEMENTS 10040
#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_HOSTNAMES 10092
#define KW_CHECK_HOSTNAME 10093
#define KW_BAD_HOSTNAME 10094
#define KW_KEEP_TIMESTAMP 10100
#define KW_USE_DNS 10110
#define KW_USE_FQDN 10111
#define KW_CUSTOM_DOMAIN 10112
#define KW_DNS_CACHE 10120
#define KW_DNS_CACHE_SIZE 10121
#define KW_DNS_CACHE_EXPIRE 10130
#define KW_DNS_CACHE_EXPIRE_FAILED 10131
#define KW_DNS_CACHE_HOSTS 10132
#define KW_PERSIST_ONLY 10140
#define KW_USE_RCPTID 10141
#define KW_TZ_CONVERT 10150
#define KW_TS_FORMAT 10151
#define KW_FRAC_DIGITS 10152
#define KW_LOG_FIFO_SIZE 10160
#define KW_LOG_FETCH_LIMIT 10162
#define KW_LOG_IW_SIZE 10163
#define KW_LOG_PREFIX 10164
#define KW_PROGRAM_OVERRIDE 10165
#define KW_HOST_OVERRIDE 10166
#define KW_THROTTLE 10170
#define KW_THREADED 10171
#define KW_FLAGS 10190
#define KW_PAD_SIZE 10200
#define KW_TIME_ZONE 10201
#define KW_RECV_TIME_ZONE 10202
#define KW_SEND_TIME_ZONE 10203
#define KW_LOCAL_TIME_ZONE 10204
#define KW_FORMAT 10205
#define KW_TIME_REOPEN 10210
#define KW_TIME_REAP 10211
#define KW_TIME_SLEEP 10212
#define KW_TMPL_ESCAPE 10220
#define KW_OPTIONAL 10230
#define KW_CREATE_DIRS 10240
#define KW_OWNER 10250
#define KW_GROUP 10251
#define KW_PERM 10252
#define KW_DIR_OWNER 10260
#define KW_DIR_GROUP 10261
#define KW_DIR_PERM 10262
#define KW_TEMPLATE 10270
#define KW_TEMPLATE_ESCAPE 10271
#define KW_DEFAULT_FACILITY 10300
#define KW_DEFAULT_LEVEL 10301
#define KW_PORT 10323
#define KW_USE_TIME_RECVD 10340
#define KW_FACILITY 10350
#define KW_LEVEL 10351
#define KW_HOST 10352
#define KW_MATCH 10353
#define KW_MESSAGE 10354
#define KW_NETMASK 10355
#define KW_TAGS 10356
#define KW_VALUE 10361
#define KW_REWRITE 10370
#define KW_SET 10371
#define KW_SUBST 10372
#define KW_YES 10380
#define KW_NO 10381
#define KW_IFDEF 10410
#define KW_ENDIF 10411
#define LL_DOTDOT 10420
#define LL_IDENTIFIER 10421
#define LL_NUMBER 10422
#define LL_FLOAT 10423
#define LL_STRING 10424
#define LL_TOKEN 10425
#define LL_BLOCK 10426
#define LL_PRAGMA 10427
#define LL_EOL 10428
#define LL_ERROR 10429
#define KW_VALUE_PAIRS 10500
#define KW_SELECT 10501
#define KW_EXCLUDE 10502
#define KW_PAIR 10503
#define KW_KEY 10504
#define KW_SCOPE 10505
#define KW_SHIFT 10506
#define KW_REKEY 10507
#define KW_ADD_PREFIX 10508
#define KW_REPLACE_PREFIX 10509
#define KW_ON_ERROR 10510
#define KW_RETRIES 10511
#define KW_CONDITION 10513
#define KW_SET_TAG 10514
#define KW_CLEAR_TAG 10515
#define KW_GROUP_SET 10516

/* Value type. */

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

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

#endif /* !YY_REWRITE_EXPR_LIB_REWRITE_REWRITE_EXPR_GRAMMAR_H_INCLUDED */

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

#line 444 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:358 */
#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);      
                }                                                  
        }                                                            
    } 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

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

#else
# undef short
#endif

#define YYTYPE_UINT8
typedef YYTYPE_UINT8 yytype_uint8; 
#else 

typedef unsigned char yytype_uint8; 
#endif

#define YYTYPE_INT8

typedef YYTYPE_INT8 yytype_int8; 
#else 

typedef signed char yytype_int8; 
#endif

#define YYTYPE_UINT16

typedef YYTYPE_UINT16 yytype_uint16; 
#else 

typedef unsigned short int yytype_uint16; 
#endif

#define YYTYPE_INT16

typedef YYTYPE_UINT16 yytype_int16; 
#else 

typedef signed short int yytype_int16; 
#endif

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

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

#define YYSIZE_MAXIMUM ((YYSIZE_T) -1)

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

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

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

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

#if defined __GNUC__ && 407 <= __GNUC__ * 100 + __GNUC_MINOR__
/* Suppress an incorrect diagnostic about yylval being uninitialized. */
# define YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN \ 
  _Pragma ("GCC diagnostic push") \ 
  _Pragma ("GCC diagnostic ignored "-Wuninitialized"")\ 
  _Pragma ("GCC diagnostic ignored "-Wmaybe-uninitialized"")
# define YY_IGNORE_MAYBE_UNINITIALIZED_END \ 
  _Pragma ("GCC diagnostic pop")
#else
# define YY_INITIAL_VALUE(Value) YY_INITIAL_VALUE(Value) Value
#endif
#if ! defined yyoverflow || YYERROR_VERBOSE
/* The parser invokes alloca or malloc; define the necessary symbols. */
#if YYSTACK_USE_ALLOCA
  #if YYSTACK_USE_ALLOCA
    #if defined __GNUC__
      define YYSTACK_ALLOC __builtin_alloca
    #elif defined __BUILTIN_VA_ARG_INCR

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


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/* A type that is properly aligned for any stack member. */
union yyalloc
{
  yytype_int16 yyss_alloc;
  YYYSTYPE 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 (&yypr->Stack_alloc, Stack, yynsize);                \
    Stack = &yypr->Stack_alloc;                                    \
    yynewbytes = yystacksize * sizeof (*Stack) + YYSTACK_GAP_MAXIMUM; \
    yynptr += yynewbytes / sizeof (*yyptr);                      \
  }
while (0)

#endif

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

/* YYFINAL -- State number of the termination state. */
#define YYFINAL  18
/* YYLAST -- Last index in YYTABLE. */
#define YYLAST  205
/* YYNTOKENS -- Number of terminals. */
#define YYNTOKENS  159
/* YYNNTS -- Number of nonterminals. */
#define YYNNTS  57
/* YYNRULES -- Number of rules. */
#define YYNRULES  110
/* YYNSTATES -- Number of states. */
#define YYNSTATES  232

/* YYTRANSLATE[YYX] -- Symbol number corresponding to YYX as returned
by yylex, with out-of-bounds checking. */
#define YYUNDEFTOK  2
#define YYMAXUTOK   10516
#define YYTRANSLATE(YYX) ((unsigned int) (YYX) <= YYMAXUTOK ? yytranslate[YYX] : YYUNDEFTOK)

/* YYTRANSLATE[TOKEN-NUM] -- Symbol number corresponding to TOKEN-NUM
as returned by yylex, without out-of-bounds checking. */
static const yytype_uint8 yytranslate[] =
{
    0,  3,  4,  5,  6,  7,  8,  9, 10, 11,
12, 13, 14, 15, 16, 17, 18, 19, 20,  2,
 2,  2,  2,  2,  2,  2,  2,  2,  2,  2,
 2,  2,  2,  2,  2,  2,  2,  2,  2,  2,
153, 154,  2,  2,  2,  2,  2,  2,  2,  2,
 2,  2,  2,  2,  2,  2,  2,  2,  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,  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[] =
{
  0, 387, 387, 391, 392, 393, 397, 409, 408, 421,
  420, 426, 427, 429, 428, 435, 454, 455, 459, 463,
  467, 468, 472, 472, 473, 477, 478, 482, 497, 502,
  501, 514, 516, 514, 523, 524, 525, 529, 530, 534,
  553, 557, 557, 566, 570, 575, 586, 596, 605,
  607, 605, 616, 617, 618, 622, 626, 645, 646, 650,
  651, 652, 653, 654, 655, 656, 657, 658, 659, 660,
  664, 676, 681, 682, 686, 687, 691, 695, 696, 700,
  701, 732, 733, 737, 738, 739, 743, 744, 754, 758,
  759, 763, 764, 810, 811, 812, 813, 814, 815, 816,
  817, 818, 818, 831, 832, 833, 834, 978, 979, 983,
  984
};
#endif

#if YYDEBUG || YYERROR_VERBOSE || 1
/* YYTNAME[SYMBOL-NUM] -- String name of the symbol SYMBOL-NUM.  
   First, the terminals, then, starting at YYNTOKENS, nonterminals. */
static const char *const yytname[] =
{
"$end", "error", "$undefined", "LL_CONTEXT_ROOT",
"LL_CONTEXT_DESTINATION", "LL_CONTEXT_SOURCE", "LL_CONTEXT_PARSER",
"LL_CONTEXT_REWRITE", "LL_CONTEXT_FILTER", "LL_CONTEXT_LOG",
"LL_CONTEXT_BLOCK_DEF", "LL_CONTEXT_BLOCK_REF",
"LL_CONTEXT_BLOCK_CONTENT", "LL_CONTEXT_BLOCK_ARG", "LL_CONTEXT_PRAGMA",
"LL_CONTEXT_FORMAT", "LL_CONTEXT_TEMPLATE_FUNC", "LL_CONTEXT.Inner_DEST",
"LL_CONTEXT_INNER_SRC", "LL_CONTEXT_CLIENT_PROTO",
"LL_CONTEXT_SERVER_PROTO", "KW_SOURCE", "KW_FILTER", "KW_PARSER",
"KW_DESTINATION", "KW_LOG", "KW_OPTIONS", "KW_INCLUDE", "KW_BLOCK",
"KW_JUNCTION", "KW_CHANNEL", "KW_INTERNAL", "KW_FILE", "KW_SQL",
"KW_TYPE", "KW_COLUMNS", "KW_INDEXES", "KW_VALUES", "KW_PASSWORD",
"KW_DATABASE", "KW_USERNAME", "KW_TABLE", "KW_ENCODING",
"KW_SESSION_STATEMENTS", "KW_DELIMITERS", "KW_QUOTES", "KW_QUOTES.PAIRS",
"KW.NULL", "KW_SYSLOG", "KW_MARK_FREQ", "KW_STATS_FREQ",
"KW_STATS_LEVEL", "KW_STATS.LIFETIME", "KW_FLUSH_LINES", "KW_SUPPRESS",
"KW.Flush.TIMEOUT", "KW_LOG.MSG.SIZE", "KW_FILE_TEMPLATE",
"KW_PROTO_Template", "KW_MARK_MODE", "KW_CHAIN_HOSTNAMES",
"KW_NORMALIZE_HOSTNAMES", "KW_KEEP_HOSTNAME", "KW_CHECK_HOSTNAME",
"KW_BAD_HOSTNAME", "KW_KEEP_TIMESTAMP", "KW_USE_DNS", "KW_USE_FQDN",
"KW_CUSTOM_DOMAIN", "KW_DNS_CACHE", "KW_DNS_CACHE_SIZE",
"KW_DNS_CACHE_EXPIRE", "KW_DNS_CACHE_EXPIRE_FAILED",
"KW_DNS_CACHE_HOSTS", "KW_PERSIST_ONLY", "KW_USE_RCPTID",
"KW_TZ_CONVERT", "KW_TS_FORMAT", "KW_FRAC_DIGITS", "KW_LOG_FIFO_SIZE",
"KW_LOG_FETCH_LIMIT", "KW_LOG_IW_SIZE", "KW_LOG_PREFIX",


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"KW_PROGRAM_OVERRIDE", "KW_HOST_OVERRIDE", "KW_THROTTEL", "KW_THREADING",
"KW_FLAGS", "KW_PAD_SIZE", "KW_TIME_ZONE", "KW_RECV_TIME_ZONE",
"KW_SEND_TIME_ZONE", "KW_LOCAL_TIME_ZONE", "KW_FORMAT", "KW_TIME_REOPEN",
"KW_TIME_READ", "KW_TIME_SLEEP", "KW_TMPL_ESCAPE", "KW_OPTIONAL",
"KW_CREATE_DIRS", "KW_OWNER", "KW_GROUP", "KW_PERM", "KW_DIR_OWNER",
"KW_DIR_GROUP", "KW_DIR_PERM", "KW_TEMPLATE", "KW_TEMPLATE_ESCAPE",
"KW_DEFAULT_FACILITY", "KW_DEFAULT_LEVEL", "KW_PORT",
"KW_USE_TIME_RECV", "KW_FACILITY", "KW_LEVEL", "KW_HOST", "KW_MATCH",
"KW_MESSAGE", "KW_NETMASK", "KW_TAGS", "KW_VALUE", "KW_REWRITE",
"KW_SET", "KW_SUBST", "KW_YES", "KW_NO", "KWIFDEF", "KW_ENDIF",
"LL_DOTDOT", "LL_IDENTIFIER", "LL_NUMBER", "LL_FLOAT", "LL_STRING",
"LL_TOKEN", "LL_BLOCK", "LL_PRAGMA", "LL_EOL", "LL_ERROR",
"KW_VALUE_PAIRS", "KW_SELECT", "KW_EXCLUDE", "KW_PAIR", "KW_KEY",
"KW_SCOPE", "KW_SHIFT", "KW_REUSE", "KW_ADD_PREFIX", "KW_REPLACE_PREFIX",
"KW_ON_ERROR", "KW_RETRIES", "KW_CONDITION", "KW_SET_TAG",
"KW_CLEAR_TAG", "KW GROUP_SET", "("", ")", "{", "},", ":",
$accept", "start", "rewrite_expr_list", "rewrite_template_content",
"rewrite_expr", "$@1", "$@2", "$@3", "rewrite_groupset_opts",
"rewrite_groupset_opt", "rewrite_subst_opt", "rewrite_subst_opts", "$@4",
"rewrite_expr_opts", "rewrite_expr_opt", "rewrite_condition_opt", "$@5",
"source_content", "$@6", "$@7", "source_items", "source_item",
"source_plugin", "source_afinter", "source_afinter_params", "$@8",
"source_afinter_option", "source_afinter_option", "filter_content",
"parser_content", "rewrite_content", "dest_content", "$@9", "$@10",
"dest_items", "dest_item", "dest_plugin", "log_items", "log_item",
"log_junction", "log_last_junction", "log_forces", "log_for_list",
"log_content", "log_flags", "log_flags_items", "string", "yesno",
"dnsmode", "string_list", "string_list_build", "semicolon",
"source_option", "$@12", "host_resolve_option", "matcher_option",
"matcher_flags", YY_NULLPTR
};
#endif

#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, 10210, 10211, 10212, 10220, 10230, 10240,
10250, 10251, 10252, 10253, 10260, 10261, 10262, 10270, 10271, 10300, 10301, 10323, 10340, 10350, 10352, 10353, 10354, 10355, 10356, 10361, 10370, 10371, 10372, 10380, 10381, 10410, 10411, 10420, 10421, 10422, 10423, 10424, 10425, 10426, 10427, 10428, 10429, 10500, 10501, 10502, 10503, 10504, 10505, 10506, 10507, 10508, 10509, 10510, 10511, 10513, 10514, 10515, 10516, 40, 41, 123, 125, 59, 58
};
#endif

#define YYPACT_NINF -106

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

#define YYTABLE_NINF -45

#define yytable_value_is_error(Yytable_value) \
0

/* YYPACT[STATE-NUM] -- Index in YYTABLE of the portion describing 
STATE-NUM. */
static const yytype_int8 yypact[] =
{
-15, -87, -73, -65, -106, -59, -58, -57, 97, 17,
-54, -54, 17, -75, -75, -75, -75, -75, -106, -55,
-106, -106, -75, -49, -44, -106, -6, -6, 17, -106,
-106, -106, -97, -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, -106, -75, -106, -75, -106, -75, -106, 12,
-6, -106, -106, -75, -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, -106, -106,
-106, -75, -106, -106, -75, -75, -106, -106, -106,
-20, -20, -106, -17, -17, 9, -75, 10, -75, 11,
13, -56, -106, -106, -106, -106, -106, -106,
-106, -106, 15, 18, 19, 21, 26, 27, 28, 29,
-106, -56, -106, -26, -106, -85, -85, -85, -85, 22, -75,
-75, -75, -106, 30, 31, 32, 33, -106, -106,
-106, -106, 34, 35, 36, 37, 38, 39, 40, 41,
-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,  0,  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,  54,  0,  0,  0,  76,  57,  0,
  0,  8,  20,  0,  0,  23,  90,  0,  88,  59,
  60,  0,  39,  32,  0,  38,  37,  0,  61,  62,
  63,  64,  67,  68,  56,  50,  0,  55,  0,  65,
  66,  80,  27,  30,  0, 110,  89,  18,  41,  33,
  36,  36,  51,  54,  54,  0,  80,  0, 110,  0,
  0, 101,  34,  35,  52,  53,  0,  79, 107, 109,
 108,  40,  0,  0,  0,  0,  0,  0,  0,  0,
 42, 101,  45,  0,  77,  0,  0,  0,  0,  0,
  0,  0,  90,  43,  0,  0,  0,  0, 102,  83,
 84,  85,  0,  0,  0,  0,  0,  0,  0,  0,
  0,  0,  0,  0,  94,  95,  99,  93,  98,  96,
 97, 100,  0,  87,  86,  0,  0,  0, 106, 104,
 103, 105
};

/* YYPGOTO[NTERM-NUM]. */
static const yytype_int8 yypgoto[] =
{
-106,  -106,    49,    16,  -106,  -106,  -106,  -106,    61,  -106,
  106,   20,  -72,  113,  -106,    14,  -14,  -94,  -106,  -23,
  50,  -4,  -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,
```c
123, 124, 125, 126, 160, 161, 180, 181, 98, 100,
105, 102, 103, 152, 135, 136, 137, 53, 54, 11,
21, 22, 23, 56, 107, 155, 31, 202, 225, 117,
118, 25, 182, 183, 198, 115, 159
};

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

static const yytype_int16 yycheck[] =
{
  14, 15, 16, 37, 60, 25, 62, 11, 25, 65,
  30, 31, 34, 30, 29, 21, 22, 23, 24, 23,
  24, 74, 119, 29, 96, 81, 82, 83, 84, 36,
  37, 103, 12, 17, 47, 61, 64, 119, 123, 124,
  66, 67, 25, 69, 129, 150, 151, 30, 32, 153,
  54, 155, 149, 128, 67, 69, 131, 71, 38, 73,
  88, 75, 118, 77, 153, 87, 155, 149, 155, 83,
  123, 124, 154, 80, 25, 26, 129, 91, 150, 151,
  153, 153, 154, 153, 153, 155, 155, 153, 153, 155,
  153, 154, 186, 187, 153, 153, 153, 0, 154, 87,
  155, 153, 116, 157, 155, 154, 121, 122, 128, 156,
  154, 128, 153, 128, 120, 149, 210, 211, 212, 213,
```
/* YYR2[YYN] -- Number of symbols on the right hand side of rule YYN. */
static const yytype_uint8 yyr2[] =
{
0, 2, 2, 3, 3, 0, 1, 0, 7, 0,
6, 4, 4, 0, 6, 1, 2, 0, 4, 1,
2, 0, 0, 2, 1, 2, 0, 4, 1, 0,
4, 0, 0, 3, 3, 3, 0, 1, 1, 1,
4, 0, 2, 2, 0, 1, 0, 0, 0, 0,
0, 3, 3, 3, 0, 1, 1, 3, 0, 4,
4, 4, 4, 4, 4, 4, 4, 4, 4, 1,
4, 1, 3, 0, 4, 4, 3, 5, 0, 2,
0, 1, 1, 1, 1, 1, 1, 1, 1, 2,
0, 1, 2, 4, 4, 4, 4, 4, 4, 4,
4, 0, 2, 4, 4, 4, 4, 4, 2, 0
};

#define yyerrok         (yyerrstatus = 0)
#define yyclearin       (yychar = YYEMPTY)
#define YYEMPTY         (-2)
#define YYEOF           0
#define YYACCEPT        goto yyacceptlab
#define YYABORT         goto yyabortlab
#define YYERROR         goto yyerrorlab
#define YYRECOVERING()  (!!yyerrstatus)
#define YYBACKUP(Token, Value)
  do
    if (yychar == YYEMPTY)
      {
        yychar = (Token);
        yylval = (Value);
        YYPOPSTACK (yylen);
        yystate = *yyssp;
      }
  while (0)
#define YYRECOVERING()  (!!yyerrstatus)
goto yybackup;

\

}
\
else
\
{
\
yyerror (&yylloc, lexer, result, arg, YY_("syntax error: cannot back up")); \
YYERROR;
\
}
\
while (0)
/* Error token number */
#define YYTERROR
1
#define YYERRCODE
256

/* YYLLOC_DEFAULT -- Set CURRENT to span from RHS[1] to RHS[N].
If N is 0, then set CURRENT to the empty location which ends
the previous symbol: RHS[0] (always defined). */
#ifndef YYLLOC_DEFAULT
# define YYLLOC_DEFAULT(Current, Rhs, N)
\
do
\
if (N)
\
{
\
(Current).first_line = YYRHSLOC (Rhs, 1).first_line;
\
(Current).first_column = YYRHSLOC (Rhs, 1).first_column;
\
(Current).last_line = YYRHSLOC (Rhs, N).last_line;
\
(Current).last_column = YYRHSLOC (Rhs, N).last_column;
\
}
\
else
\
{
\
(Current).first_line = (Current).last_line =
\
YYRHSLOC (Rhs, 0).last_line;
\
(Current).first_column = (Current).last_column =
\
YYRHSLOC (Rhs, 0).last_column;
\
}
\
while (0)
#endif
#define YYRHSLOC(Rhs, K) ((Rhs)[K])

/* Enable debugging if requested. */
#if YYDEBUG
# ifndef YYFPRINTF
# include <stdio.h> /* INFRINGES ON USER NAME SPACE */
# define YYFPRINTF fprintf
# endif

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# define YYPRINTF(Args)  \
  do {  \
    if (yydebug)  \
      YYPRINTF 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)

  # else
  # define YY_LOCATION_PRINT(File, Loc) ((void) 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)
{
YYPRINTF (yyoutput, "%s %s (",  
    yytype < YYNTOKENS ? "token" : "nterm", yyname[yytype]);

YY_Location_Print (yyoutput, *yylocationp);
YYPRINTF (yyoutput, ": ");
yy_symbol_value_print (yyoutput, yytype, yyvaluep, yylocationp, lexer, result, arg);
YYPRINTF (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)
{
    YYPRINTF (stderr, "Stack now");
    for (; yybottom <= yytop; yybottom++)
    {
        int yybot = *yybottom;
        YYPRINTF (stderr, " %d", yybot);
    }
    YYPRINTF (stderr, "
");
}
#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);
YYPRINTF (stderr, "n"); }
}

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

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

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

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

Do not make this value too large; the results are undefined if 
Yystack_alloc_maximum < Yystack_bytes (YYMAXDEPTH) 
evaluated with infinite-precision integer arithmetic. */
#ifndef YYMAXDEPTH
#define YYMAXDEPTH 10000
#endif

#ifndef YYERROR_VERBOSE
# if defined yystrlen
# if defined __GLIBC__ && defined _STRING_H

/* YYINITDEPTH -- initial size of the parser's stacks. */
#else /* !YYIN
#define YYPRINTF(Args)
#define YY_SYMBOL_PRINT(Title, Type, Value, Location)
#define YY_STACK_PRINT(Bottom, Top)
#define YY_REDUCE_PRINT(Rule)
#endif /* !YYDEBUG */

/* 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) 
evaluted with infinite-precision integer arithmetic. */
#else /* !YYMAXDE
#define YYMAXDEPTH 10000
#endif

#ifndef YYERROR_VERBOSE
# if defined yystrlen
# if defined __GLIBC__ && defined _STRING_H

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

# ifndef yystpcpy
# if defined __GLIBC__ && defined _STRING_H && defined _GNU_SOURCE
# define yystpcpy stpcpy
# else
/* Copy YYSRC to YYDEST, returning the address of the terminating '0' in
YYDEST. */
static char *
ystpcpy (char *yydest, const char *yysrc)
{
    char *yyd = yydest;
    const char *yys = yysrc;
    while ((*yyd++ = *yys++) != '\0')
        continue;
    return yyd - 1;
}
# endif
# endif

# ifndef yytnamerr
/* Copy to YYRES the contents of YYSTR after stripping away unnecessary
quotes and backslashes, so that it's suitable for yyerror. The
heuristic is that double-quoting is unnecessary unless the string
contains an apostrophe, a comma, or backslash (other than
backslash-backslash). YYSTR is taken from yytname. If YYRES is
null, do not copy; instead, return the length of what the result
would have been. */
static YYSIZE_T
yytnamerr (char *yyres, const char *yystr)
{
    if (*yystr == '"')
    {
        YYSIZE_T yyn = 0;
        /* Return the length of YYSTR. */
        static YYSIZE_T
        yystrlen (const char *yystr)
        {
            YYSIZE_T yylen;
            for (yylen = 0; yystr[yylen]; yylen++)
                continue;
            return yylen;
        }
        # endif
        # endif
        # ifndef yystpcpy
        # if defined __GLIBC__ && defined _STRING_H && defined _GNU_SOURCE
        # define yystpcpy stpcpy
        # else
        /* Copy YYSRC to YYDEST, returning the address of the terminating '0' in
        YYDEST. */
        static char *
        yystpcpy (char *yydest, const char *yysrc)
        {
            char *yyd = yydest;
            const char *yys = yysrc;
            while ((*yyd++ = *yys++) != '\0')
                continue;
            return yyd - 1;
        }
        # endif
        # endif
        # ifndef yytnamerr
        /* Copy to YYRES the contents of YYSTR after stripping away unnecessary
quotes and backslashes, so that it's suitable for yyerror. The
heuristic is that double-quoting is unnecessary unless the string
contains an apostrophe, a comma, or backslash (other than
backslash-backslash). YYSTR is taken from yytname. If YYRES is
null, do not copy; instead, return the length of what the result
would have been. */
        static YYSIZE_T
        yytnamerr (char *yyres, const char *yystr)
        {
            if (*yystr == '"')
            {
                YYSIZE_T yyn = 0;
            }
char const *yyp = yystr;

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

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

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

    if (! yyres)
        return yystrlen (yystr);

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

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

Return 0 if *YYMSG was successfully written. Return 1 if *YYMSG is
not large enough to hold the message. In that case, also set
*YYMSG_ALLOC to the required number of bytes. Return 2 if the
required number of bytes is too large to store. */
static int
yysyntax_error (YYSIZE_T *yymsg_alloc, char **yymsg,
    yytype_int16 *yyssp, int yytoken)
    {
    YYSIZE_T yysize0 = yytnamerr (YY_NULLPTR, yytname[yytoken]);
    YYSIZE_T yysize = yysize0;

    /* 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;

    /* 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;

    /* 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;

    /* 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's not 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 yyxend = yychecklim < YYNTOKENS ? yychecklim : YYNTOKENS;
        int yyx;

        for (yyx = yyxbegin; yyx < yyxend; ++yyx)
            /* */

}
if (yycheck[yyx + yyn] == yyx && yyx != YYERROR && !yytable_value_is_error(yytable[yyx + yyn]))
{
    if (yycount == YYERROR_VERBOSE_ARGS_MAXIMUM)
    {
        yycount = 1;
        yynsize = yynsize0;
        break;
    }
    yyarg[yycount++] = yytname[yyx];
{
    yynsize1 = yynsize + yystrlen(yytname[yyx]);
    if (! (yynsize <= yynsize1 && yynsize1 <= YYSTACK_ALLOC_MAXIMUM))
        return 2;
    yynsize = yynsize1;
    }
    switch (yycount)
    {
    # define YYCASE_(N, S)                      
    #    case N:                               
    #        yyformat = S;                     
    #        break
    # define YYCASE_0, YY_("syntax error")
    # define YYCASE_1, YY_("syntax error, unexpected %s")
    # define YYCASE_2, YY_("syntax error, unexpected %s, expecting %s")
    # define YYCASE_3, YY_("syntax error, unexpected %s, expecting %s or %s")
    # define YYCASE_4, YY_("syntax error, unexpected %s, expecting %s or %s or %s")
    # define YYCASE_5, YY_("syntax error, unexpected %s, expecting %s or %s or %s or %s")
    # undef YYCASE_
    #
    case 0:
        yyformat = "syntax error";
        break
    YYCASE_0, YY_("syntax error, unexpected %s")
    YYCASE_1, YY_("syntax error, unexpected %s, expecting %s")
    YYCASE_2, YY_("syntax error, unexpected %s, expecting %s or %s")
    YYCASE_3, YY_("syntax error, unexpected %s, expecting %s or %s or %s")
    YYCASE_4, YY_("syntax error, unexpected %s, expecting %s or %s or %s or %s")
    YYCASE_5, YY_("syntax error, unexpected %s, expecting %s or %s or %s or %s or %s")

    yynsize1 = yynsize + yynstrlen(yynformat);
    if (! (yynsize <= yynsize1 && yynsize1 <= YYSTACK_ALLOC_MAXIMUM))
        return 2;
    yynsize = yynsize1;
    }

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

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

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

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

YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
YY_IGNORE_MAYBE_UNINITIALIZED_END

YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
YY_IGNORE_MAYBE_UNINITIALIZED_END


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

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

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

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

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

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

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

    /* The state stack. */
    yytype_int16 yyssa[YYINITDEPTH];
    yytype_int16 *yyss;
    yytype_int16 *yyssp;
/* The semantic value stack. */
YYSTYPE yyvsa[YYINITDEPTH];
YYSTYPE *yyvs;
YYSTYPE *yyvsp;

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

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

YYSIZE_T yystacksize;

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

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

#define YYPOPSTACK(N)   (yyvsp -= (N), yyssp -= (N), yylsp -= (N))
/* The number of symbols on the RHS of the reduced rule.
 Keep to zero when no symbol should be popped. */
int yylen = 0;

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

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

yystate = 0;
yyerrstatus = 0;
yynerrs = 0;
 yychar = YYEMPTY; /* Cause a token to be read. */
yyloc = *yyssp;
#endif /* YYoverflow */
#endif /* YYSTACK_RELOCATE */
/* Extend the stack our own way. */
if (YYMAXDEPTH <= yystacksize)
goto yyexhaustedlab;
yystacksize *= 2;
if (YYMAXDEPTH < yystacksize)
    yystacksize = YYMAXDEPTH;
{
    yytype_int16 *yyss1 = yyss;
    union yyalloc *yyptr =
        (union yyalloc *) YYSTACK_ALLOC (YYSTACK_BYTES (yystacksize));
    if (! yyptr)
        goto yyexhaustedlab;
    YYSTACK_RELOCATE (yyss_alloc, yyss);
    YYSTACK_RELOCATE (yyvs_alloc, yyvs);
    YYSTACK_RELOCATE (yyls_alloc, yyls);
#  undef YYSTACK_RELOCATE
    if (yyss1 != yyssa)
        YYSTACK_FREE (yyss1);
}
#endif /* no yyoverflow */

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

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

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

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

if (yystate == YYFINAL)
    YYACCEPT;

goto yybackup;

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

yybackup:

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

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

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

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

if (yychar <= YYEOF)
{
    yychar = yytoken = YYEOF;
    YYDPRINTF ((stderr, "Now at end of input.");
}
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. */
yy = yytoken;
if (yy < 0 || YYLAST < yy || yycheck[yy] != yytoken)
    goto yydefault;
else
{
    if (yytable_value_is_error(yy))
        goto yyerrlab;
    yy = -yy;
    goto yyreduce;
}

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

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

/* Discard the shifted token. */
yychar = YYEMPTY;
yyystate = yyn;
YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
*++yyvsp = yylval;
YY_IGNORE_MAYBE_UNINITIALIZED_END
*++yylsp = yylloc;
goto yynewstate;

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

yydefault:
  yyn = yydefact[yyystate];
  if (yny == 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 = yvsp[1-yylen];

/* Default location. */
YYLLOC_DEFAULT (yyloc, (yylsp - yylen), yylen);
YY_REDUCE_PRINT (yyn);
switch (yny)
{
  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])),
(yystack[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), (yyval.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 */
{
GErrror *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((yyval.ptr), configuration);
log_template_unref((yyval.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 */
{
GErrror *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:
Plugin *p;
gint context = LLCONTEXT_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;
}

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

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

case 27:
#line 483 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{
    const gchar *p = (yyvsp[-1].cptr);
    if (p[0] == '$')
    {
        msg_warning("Value references in rewrite rules should not use the '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), (yyval.ptr), "%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), (yyval.ptr));
    log_rewrite_set_condition(last_rewrite, filter_expr);
}
#line 3098 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

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

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

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

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

case 35:
break;

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

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

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

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

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

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

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

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

   CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&rewrite_expr_parser, lexer, (gpointer *)
   &last_rewrite_expr, NULL), (yyloc));
   (yyval.ptr) = last_rewrite_expr;
}

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

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

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

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

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

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

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

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

case 56:
case 57:
case 58:
case 59:
case 60:
case 61:
#line 652 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_new_filter_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3317 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  break;

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

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

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

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

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

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

case 68:
#line 659 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = log_expr_node_new_destination(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3359 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  break;
case 69:
#line 660 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = (yyvsp[0].ptr); }
#line 3365 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

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

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

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

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

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

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

case 76:
#line 691 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = log_expr_node_new_log(log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[-1].ptr), (yyval[0].num), &(yyloc)); }
#line 3407 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;
case 77:
#line 695 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.num) = (yyvsp[-2].num); } 
#line 3413 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

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

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

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

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

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

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

case 86:
#line 743 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.num) = (yyvsp[0].num); } 
#line 3455 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;
case 87:
    #line 744 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.num) = 2; }
    #line 3461 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

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

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

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

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

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

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

case 96:
    #line 813 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { last_source_options->program_override = g_strdup((yyvsp[-1].cptr)); free((yyvsp[-1].cptr)); }
    #line 3503 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;
case 97:
#line 814 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { last_source_options->host_override = g_strdup((yyvsp[-1].cptr)); free((yyvsp[-1].cptr)); }
#line 3509 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

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

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

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

case 101:
#line 831 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { last_host_resolve_options->use_fqdn = (yyvsp[-1].num); }
#line 3539 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 103:
#line 832 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { last_host_resolve_options->use_dns = (yyval[-1].num); }
#line 3545 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 104:
#line 833 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { last_host_resolve_options->use_dns_cache = (yyval[-1].num); }
#line 3551 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;
break;

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

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

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

#line 3573 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
default: break;
}

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

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

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

/* Now 'shift' the result of the reduction. Determine what state
that goes to, based on the state we popped back to and the rule
number reduced by. */
yyn = yyr1[yyn];
yystate = yypgoto[yyn - YYNTOKENS] + *yyssp;
if (0 <= yystate && yystate <= YYLAST && yycheck[yystate] == *yyssp)
yystate = yytable[yystate];
else
yystate = yydefgoto[yyn - YYNTOKENS];
goto yynewstate;

/*--------------------------------------.
| yyerrlab -- here on detecting error. |
'--------------------------------------*/
yyerrlab:
/* Make sure we have latest lookahead translation. See comments at
user semantic actions for why this is necessary. */
yytoken = yychar == YYEMPTY ? YYEMPTY : YYTRANSLATE (yychar);
/* If not already recovering from an error, report this error. */
if (!yyerrstatus)
{
++yynerrs;
#if ! YYERROR_VERBOSE
yyerror (&yylloc, lexer, result, arg, YY_("syntax error"));
#else
# define YYSYNTAX_ERROR yysyntax_error (&yymsg_alloc, &yymsg, \
yyssp, yytoken)
{
char const *yymsgp = YY_("syntax error");
int yysyntax_error_status;
yysyntax_error_status = YYSYNTAX_ERROR;
if (yysyntax_error_status == 0)
yymsgp = yymsg;
else if (yysyntax_error_status == 1)
{
if (yymsg != yymsgbuf)
YYSTACK_FREE (yymsg);
yymsg = (char *) YYSTACK_ALLOC (yymsg_alloc);
if (!yymsg)
{
yymsg = yymsgbuf;
yymsg_alloc = sizeof yymsgbuf;
yysyntax_error_status = 2;
}
else

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{  
    yysyntax_error_status = YYSYNTAX_ERROR;
    yymsgp = yymsg;
}
}

yyerror (&yylloc, lexer, result, arg, yymsgp);
if (yysyntax_error_status == 2)
    goto yyexhaustedlab;
}
#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
    {
        yyderecruit ("Error: discarding",
                     yytoken, &yyylval, &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] = yynsp[1-yylen];
/* Do not reclaim the symbols of the rule whose action triggered
this YYERROR. */
YYPOPSTACK (yylen);
yylen = 0;
YY_STACK_PRINT (yyss, yyssp);
yystate = *yyssp;
goto yyerrlab1;

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

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

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

    yyerror_range[1] = *yylsp;
yddestruct ("Error: popping",
              yynstos[yystate], yynsp, yynlp, lexer, result, arg);
YYPOPSTACK (1);
yystate = *yyssp;
YY_STACK_PRINT (yyss, yyssp);
}

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

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

ystate = yyn;
goto yynnewstate;

/*-------------------------------------.
| yyacceptlab -- YYACCEPT comes here. |
'-------------------------------------*/

yyacceptlab:
yyresult = 0;
goto yyreturn;

/*-------------------------------------.
| yyabortlab -- YYABORT comes here. |
'-------------------------------------*/

yyabortlab:
yyresult = 1;
goto yyreturn;

#if !defined yyoverflow || YYERROR_VERBOSE
/*-------------------------------------.
| yyexhaustedlab -- memory exhaustion comes here. |
'-------------------------------------*/

yyexhaustedlab:
yyerror (&yylloc, lexer, result, arg, YY_("memory exhausted");
yyresult = 2;
/* Fall through. */
#endif

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

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FAQ:
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them as well.

Q: Do I need to sign a Contributory License Agreement in order for my
contribution to be accepted?
A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to have your contributions accepted.

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

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

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

A: No, everyone including BalaBit.

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
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1.239 sysvinit-inittab 2.88dsf

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1.241 tcl 8.6.0

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contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

1.253 udev 182
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4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

c) Accompany the work with a written offer, valid for at 
least three years, to give the same user the materials 
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than the cost of performing this distribution.

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

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

For an executable, the required form of the "work that uses the 
Library" must include any data and utility programs needed for 
reproducing the executable from it. However, as a special exception, 
the materials to be distributed need not include anything that is 
normally distributed (in either source or binary form) with the major 
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which the executable runs, unless that component itself accompanies 
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It may happen that this requirement contradicts the license 
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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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 */

// JSLitmus.js
//
// History:
// 2008-10-27: Initial release
// 2008-11-09: Account for iteration loop overhead
// 2008-11-13: Added OS detection
// 2009-02-25: Create tinyURL automatically, shift-click runs tests in reverse
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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Changes:
19990319 - Arnaldo Carvalho de Melo <acme@conectiva.com.br> - i18n/nls

20000101 - David Huggins-Daines <dhuggins@linuxcare.com> - Better support for OSF/1 disklabels on Alpha.
Also fixed unaligned accesses in alpha_bootblock_checksum()

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1.260 util-linux/Gplv3 2.23.2:3267156a85f90f099a7591311e28c8af

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1.261 vim 7.3.429

1.261.1 Available under license:

*uganda.txt* For Vim version 7.3. Last change: 2010 Aug 07

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*

SUMMARY

*iccf* *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

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- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a sponsor. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

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

Kibaale Children's Centre*KCC* *Kibaale* *charity*

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

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

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

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

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

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL47 PSTB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
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Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

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1.267 xinetd 2.3.15

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1.268 xmlsec 1.2.20

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with this program; if not, write to the Free Software Foundation,
Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. */

#ifndef _LIBC
#include <config.h>
#endif
#include "getopt.h"
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#ifdef __VMS
#include <unixlib.h>
#endif

/* Completely disable NLS for getopt. We won't include translations for it anyway. If the system lacks getopt_long, missing translations probably aren't a problem. */

/*
#ifndef _LIBC
#include <libintl.h>
#else
#include "gettext.h"
#define _(msgid) gettext (msgid)
#endif
*/

#define _(msgid) (msgid)
#if defined _LIBC && defined USE_IN_LIBIO
#include <wchar.h>
#endif
#ifndef attribute_hidden
#define attribute_hidden
#endif

/* Unlike standard Unix 'getopt', functions like 'getopt_long'
let the user intersperse the options with the other arguments.

As 'getopt_long' works, it permutes the elements of ARGV so that,
when it is done, all the options precede everything else. Thus
all application programs are extended to handle flexible argument order.

Using 'getopt' or setting the environment variable POSIXLY_CORRECT
disables permutation.
Then the application's behavior is completely standard.

GNU application programs can use a third alternative mode in which
they can distinguish the relative order of options and other arguments. */

#include "getopt_int.h"

/* For communication from 'getopt' to the caller.
When 'getopt' finds an option that takes an argument,
the argument value is returned here.
Also, when 'ordering' is RETURN_IN_ORDER,
each non-option ARGV-element is returned here. */
char *optarg;

/* Index in ARGV of the next element to be scanned.
   This is used for communication to and from the caller
   and for communication between successive calls to 'getopt'.

   On entry to 'getopt', zero means this is the first call; initialize.

   When 'getopt' returns -1, this is the index of the first of the
   non-option elements that the caller should itself scan.

   Otherwise, 'optind' communicates from one call to the next
   how much of ARGV has been scanned so far. */

/* 1003.2 says this must be 1 before any call. */
int optind = 1;

/* Callers store zero here to inhibit the error message
   for unrecognized options. */
int opterr = 1;

/* Set to an option character which was unrecognized.
   This must be initialized on some systems to avoid linking in the
   system's own getopt implementation. */
int optopt = '?';

/* Keep a global copy of all internal members of getopt_data. */
static struct _getopt_data getopt_data;

#if defined HAVE_DECL_GETENV && !HAVE_DECL_GETENV
extern char *getenv();
#endif

#ifdef _LIBC
/* Stored original parameters.
   XXX This is no good solution. We should rather copy the args so
   that we can compare them later. But we must not use malloc(3). */
extern int __libc_argc;
extern char **__libc_argv;
#endif

/* Bash 2.0 gives us an environment variable containing flags
   indicating ARGV elements that should not be considered arguments. */

#ifdef USE_NONOPTION_FLAGS

#endif
/* Defined in getopt_init.c */
extern char *__getopt_nonoption_flags;
#endif

#ifdef USE_NONOPTION_FLAGS
#define SWAP_FLAGS(ch1, ch2) \
  if (d->__nonoption_flags_len > 0) \
    { \
      char __tmp = __getopt_nonoption_flags[ch1]; \
      __getopt_nonoption_flags[ch1] = __getopt_nonoption_flags[ch2]; \
      __getopt_nonoption_flags[ch2] = __tmp; \
    }
#else
#define SWAP_FLAGS(ch1, ch2)
#endif

/* Exchange two adjacent subsequences of ARGV.  
One subsequence is elements [first_nonopt,last_nonopt) 
which contains all the non-options that have been skipped so far. 
The other is elements [last_nonopt,optind), which contains all 
the options processed since those non-options were skipped.  
'first_nonopt' and 'last_nonopt' are relocated so that they describe 
the new indices of the non-options in ARGV after they are moved. */

static void
exchange (char **argv, struct _getopt_data *d)
{
  int bottom = d->__first_nonopt;
  int middle = d->__last_nonopt;
  int top = d->optind;
  char *tem;

  /* Exchange the shorter segment with the far end of the longer segment. 
   That puts the shorter segment into the right place. 
   It leaves the longer segment in the right place overall, 
   but it consists of two parts that need to be swapped next. */

  #if defined _LIBC && defined USE_NONOPTION_FLAGS 
  /* First make sure the handling of the '__getopt_nonoption_flags' 
   string can work normally. Our top argument must be in the range 
   of the string. */
  if (d->__nonoption_flags_len > 0 && top >= d->__nonoption_flags_max_len)
    {
      /* We must extend the array. The user plays games with us and
       ...
presents new arguments. */
    char *new_str = malloc (top + 1);
    if (new_str == NULL)
        d->__nonoption_flags_len = d->__nonoption_flags_max_len = 0;
    else
    {
        memset (__mempcpy (new_str, __getopt_nonoption_flags,
            d->__nonoption_flags_max_len),
            '\0', top + 1 - d->__nonoption_flags_max_len);
        d->__nonoption_flags_max_len = top + 1;
        __getopt_nonoption_flags = new_str;
    }
}
#endif

while (top > middle && middle > bottom)
{
    if (top - middle > middle - bottom)
    {
        /* Bottom segment is the short one. */
        int len = middle - bottom;
        register int i;

        /* Swap it with the top part of the top segment. */
        for (i = 0; i < len; i++)
        {
            tem = argv[bottom + i];
            argv[bottom + i] = argv[top - (middle - bottom) + i];
            argv[top - (middle - bottom) + i] = tem;
            SWAP_FLAGS (bottom + i, top - (middle - bottom) + i);
        }
        /* Exclude the moved bottom segment from further swapping. */
        top -= len;
    }
    else
    {
        /* Top segment is the short one. */
        int len = top - middle;
        register int i;

        /* Swap it with the bottom part of the bottom segment. */
        for (i = 0; i < len; i++)
        {
            tem = argv[bottom + i];
            argv[bottom + i] = argv[middle + i];
            argv[middle + i] = tem;
            SWAP_FLAGS (bottom + i, middle + i);
        }
    }
}
if (d->__nonoption_flags_max_len == 0)
{
  if (__getopt_nonoption_flags == NULL
      || __getopt_nonoption_flags[0] == '\0')
    d->__nonoption_flags_max_len = -1;
  else
    {
      const char *orig_str = __getopt_nonoption_flags;
      int len = d->__nonoption_flags_max_len = strlen (orig_str);
      if (d->__nonoption_flags_max_len < argc)
        d->__nonoption_flags_max_len = argc;
      __getopt_nonoption_flags =
        (char *) malloc (d->__nonoption_flags_max_len);
      if (__getopt_nonoption_flags == NULL)
        d->__nonoption_flags_max_len = -1;
      else
        memset (__mempcpy (__getopt_nonoption_flags, orig_str, len),
                '\0', d->__nonoption_flags_max_len - len);
    }
  d->__nonoption_flags_len = d->__nonoption_flags_max_len;
}
else
  d->__nonoption_flags_len = 0;
#endif

return optstring;
}

/* Scan elements of ARGV (whose length is ARGC) for option characters
given in OPTSTRING.

If an element of ARGV starts with '-' and is not exactly "-" or "--", then it is an option element. The characters of this element
(aside from the initial '-') are option characters. If 'getopt'
is called repeatedly, it returns successively each of the option characters
from each of the option elements.

If 'getopt' finds another option character, it returns that character,
updating 'optind' and 'nextchar' so that the next call to 'getopt' can
resume the scan with the following option character or ARGV-element.

If there are no more option characters, 'getopt' returns -1.
Then 'optind' is the index in ARGV of the first ARGV-element
that is not an option. (The ARGV-elements have been permuted
so that those that are not options now come last.)

OPTSTRING is a string containing the legitimate option characters.
If an option character is seen that is not listed in OPTSTRING, return '?' after printing an error message. If you set 'opterr' to zero, the error message is suppressed but we still return '?'.

If a char in OPTSTRING is followed by a colon, that means it wants an arg, so the following text in the same ARGV-element, or the text of the following ARGV-element, is returned in 'optarg'. Two colons mean an option that wants an optional arg; if there is text in the current ARGV-element, it is returned in 'optarg', otherwise 'optarg' is set to zero.

If OPTSTRING starts with '-' or '+', it requests different methods of handling the non-option ARGV-elements. See the comments about RETURN_IN_ORDER and REQUIRE_ORDER, above.

Long-named options begin with '--' instead of '-'. Their names may be abbreviated as long as the abbreviation is unique or is an exact match for some defined option. If they have an argument, it follows the option name in the same ARGV-element, separated from the option name by a '='. When getopt finds a long-named option, it returns 0 if that option's 'flag' field is nonzero, the value of the option's 'val' field if the 'flag' field is zero.

LONGOPTS is a vector of 'struct option' terminated by an element containing a name which is zero.

LONGIND returns the index in LONGOPT of the long-named option found. It is only valid when a long-named option has been found by the most recent call.

If LONG_ONLY is nonzero, '-' as well as '--' can introduce long-named options.

If POSIXLY_CORRECT is nonzero, behave as if the POSIXLY_CORRECT environment variable were set. */

int _getopt_internal_r (int argc, char **argv, const char *optstring,
    const struct option *longopts, int *longind,
    int long_only, int posixly_correct, struct _getopt_data *d)
{
    int print_errors = d->opterr;
    if (optstring[0] == ':')
        print_errors = 0;

    if (argc < 1)
        return -1;
d->optarg = NULL;

if (d->optind == 0 || !d->__initialized)
{
    if (d->optind == 0)
        d->optind = 1; /* Don't scan ARGV[0], the program name. */
    optstring = _getopt_initialize (argc, argv, optstring,
        posixly_correct, d);
    d->__initialized = 1;
}

/* Test whether ARGV[optind] points to a non-option argument.
   Either it does not have option syntax, or there is an environment flag
   from the shell indicating it is not an option.  The later information
   is only used when the used in the GNU libc. */
#if defined __LIBC && defined USE_NONOPTION_FLAGS
#define NONOPTION_P (argv[d->optind][0] != '-' || argv[d->optind][1] == '0'
    || (d->optind < d->__nonoption_flags_len
         && __getopt_nonoption_flags[d->optind] == '1'))
#else
#define NONOPTION_P (argv[d->optind][0] != '-' || argv[d->optind][1] == '0')
#endif
if (d->__nextchar == NULL || *d->__nextchar == '0')
{
    /* Advance to the next ARGV-element. */

    /* Give FIRST_NONOPT & LAST_NONOPT rational values if OPTIND has been
       moved back by the user (who may also have changed the arguments). */
    if (d->__last_nonopt > d->optind)
        d->__last_nonopt = d->optind;
    if (d->__first_nonopt > d->optind)
        d->__first_nonopt = d->optind;
    if (d->__ordering == PERMUTE)
    {
        /* If we have just processed some options following some non-options,
           exchange them so that the options come first. */

        if (d->__first_nonopt != d->__last_nonopt
            && d->__last_nonopt != d->optind)
            exchange ((char **) argv, d);
        else if (d->__last_nonopt != d->optind)
            d->__first_nonopt = d->optind;
    }
    /* Skip any additional non-options
       and extend the range of non-options previously skipped. */
while (d->optind < argc && NONOPTION_P)
    d->optind++;
    d->__last_nonopt = d->optind;
}

/* The special ARGV-element '---' means premature end of options.
Skip it like a null option,
then exchange with previous non-options as if it were an option,
then skip everything else like a non-option. */

if (d->optind != argc && !strcmp (argv[d->optind], "--"))
{
    d->optind++;

    if (d->__first_nonopt != d->__last_nonopt
        && d->__last_nonopt != d->optind)
        exchange ((char **) argv, d);
    else if (d->__first_nonopt == d->__last_nonopt)
        d->__first_nonopt = d->optind;
    d->__last_nonopt = argc;

    d->optind = argc;
}

/* If we have done all the ARGV-elements, stop the scan
and back over any non-options that we skipped and permuted. */

if (d->optind == argc)
{
    /* Set the next-arg-index to point at the non-options
    that we previously skipped, so the caller will digest them. */
    if (d->__first_nonopt != d->__last_nonopt)
        d->optind = d->__first_nonopt;
    return -1;
}

/* If we have come to a non-option and did not permute it,
either stop the scan or describe it to the caller and pass it by. */

if (NONOPTION_P)
{
    if (d->__ordering == REQUIRE_ORDER)
        return -1;
    d->optarg = argv[d->optind++];
    return 1;
}

/* We have found another option-ARGV-element.
Skip the initial punctuation. */

d->__nextchar = (argv[d->optind] + 1
+ (longopts != NULL && argv[d->optind][1] == '-'));
}

/* Decode the current option-ARGV-element. */

/* Check whether the ARGV-element is a long option.

If long_only and the ARGV-element has the form "-f", where f is a valid short option, don't consider it an abbreviated form of a long option that starts with f. Otherwise there would be no way to give the -f short option.

On the other hand, if there's a long option "fubar" and the ARGV-element is "-fu", do consider that an abbreviation of the long option, just like "--fu", and not "-f" with arg "u".

This distinction seems to be the most useful approach. */

if (longopts != NULL
   && (argv[d->optind][1] == '-'
       || (long_only && (argv[d->optind][2]
       || !strchr (optstring, argv[d->optind][1])))
   }
char *nameend;
const struct option *p;
const struct option *pfound = NULL;
int exact = 0;
int ambig = 0;
int indfound = -1;
int option_index;

for (nameend = d->__nextchar; *nameend && *nameend != '='; nameend++) /* Do nothing. */
/* Test all long options for either exact match or abbreviated matches. */
for (p = longopts, option_index = 0; p->name; p++, option_index++)
if (!strncmp (p->name, d->__nextchar, nameend - d->__nextchar))
   {
      if ((unsigned int) (nameend - d->__nextchar)
          == (unsigned int) strlen (p->name))
        {
/* Exact match found. */
pfound = p;
        indfound = option_index;
        }
exact = 1;
break;
}
else if (pfound == NULL)
{

/* First nonexact match found. */
pfound = p;
indfound = option_index;
}
else if (long_only
|| pfound->has_arg != p->has_arg
|| pfound->flag != p->flag
|| pfound->val != p->val)
/* Second or later nonexact match found. */
ambig = 1;
}

if (ambig && !exact)
{
if (print_errors)
{
#if defined _LIBC && defined USE_IN_LIBIO
char *buf;

if (__asprintf (&buf, _("%s: option '%s' is ambiguous\n"),
argv[0], argv[d->optind]) >= 0)
{
_IO_flockfile (stderr);

int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
((IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

_fxprintf (NULL, "%s", buf);

((IO_FILE *) stderr)->_flags2 = old_flags2;
_IO_funlockfile (stderr);

free (buf);
}
#else
fprintf (stderr, _("%s: option '%s' is ambiguous\n"),
argv[0], argv[d->optind]);
#endif
}

else
{
d->__nextchar += strlen (d->__nextchar);
d->optind++;
d->optopt = 0;
return '?';
}
if (pfound != NULL)
{
    option_index = indfound;
    d->optind++;
    if (*nameend)
    {
        /* Don't test has_arg with >, because some C compilers don't allow it to be used on enums. */
        if (pfound->has_arg)
            d->optarg = nameend + 1;
        else
            if (print_errors)
                {
#ifndef _LIBC && defined USE_IN_LIBIO
                char *buf;
                int n;
#endif
                if (argv[d->optind - 1][1] == '-
                    {
                        /* --option */
                        #ifdef _LIBC && defined USE_IN_LIBIO
                        n = __asprintf (&buf, _("%s: option '--%s' doesn't allow an argument\n"),
                                        argv[0], pfound->name);
                        #else
                            fprintf (stderr, _("%s: option '--%s' doesn't allow an argument\n"),
                                        argv[0], pfound->name);
                        #endif
                    }
                else
                    {
                        /* +option or -option */
                        #ifdef _LIBC && defined USE_IN_LIBIO
                        n = __asprintf (&buf, _("%s: option '%c%s' doesn't allow an argument\n"),
                                        argv[0], argv[d->optind - 1][0],
                                        pfound->name);
                        #else
                            fprintf (stderr, _("%s: option '%c%s' doesn't allow an argument\n"),
                                        argv[0], argv[d->optind - 1][0],
                                        pfound->name);
                        #endif
                    }
                }
            }
        /* --option */
        #ifdef _LIBC && defined USE_IN_LIBIO
        n = __asprintf (&buf, _("%s: option '--%s' doesn't allow an argument\n"),
                        argv[0], pfound->name);
        #else
            fprintf (stderr, _("%s: option '--%s' doesn't allow an argument\n"),
                        argv[0], pfound->name);
        #endif
    }
    else
        {
            /* +option or -option */
            #ifdef _LIBC && defined USE_IN_LIBIO
            n = __asprintf (&buf, _("%s: option '%c%s' doesn't allow an argument\n"),
                            argv[0], argv[d->optind - 1][0],
                            pfound->name);
            #else
                fprintf (stderr, _("%s: option '%c%s' doesn't allow an argument\n"),
                            argv[0], argv[d->optind - 1][0],
                            pfound->name);
            #endif
        }
    }
}
#if defined _LIBC && defined USE_IN_LIBIO
  if (n >= 0)
  {
    _IO_flockfile (stderr);

    int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
    ((_IO_FILE *) stderr)->_flags2
      |= _IO_FLAGS2_NOTCANCEL;

    __fxprintf (NULL, "%s", buf);

    ((_IO_FILE *) stderr)->_flags2 = old_flags2;
    _IO_funlockfile (stderr);

    free (buf);
  }
#endif

  d->__nextchar += strlen (d->__nextchar);

  d->optopt = pfound->val;
  return '?';
}
  }
else if (pfound->has_arg == 1)
  {
    if (d->optind < argc)
      d->optarg = argv[d->optind++];
    else
      {
        if (print_errors)
          {
            #if defined _LIBC && defined USE_IN_LIBIO
            char *buf;

            if (__asprintf (&buf, _("%s: option '%s' requires an argument\n"),
                argv[0], argv[d->optind - 1]) >= 0)
              {
                _IO_flockfile (stderr);

                int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
                ((_IO_FILE *) stderr)->_flags2
                  |= _IO_FLAGS2_NOTCANCEL;
            }
argv[0], d->__nextchar);
#else
fprintf (stderr, _("%s: unrecognized option '--%s'\n"),
argv[0], d->__nextchar);
#endif
}
else
{
/* +option or -option */
#if defined _LIBC && defined USE_IN_LIBIO
n = __asprintf (&buf, _("%s: unrecognized option '%c%s'\n"),
argv[0], argv[d->optind][0], d->__nextchar);
#else
fprintf (stderr, _("%s: unrecognized option '%c%s'\n"),
argv[0], argv[d->optind][0], d->__nextchar);
#endif
}
#if defined _LIBC && defined USE_IN_LIBIO
if (n >= 0)
{
_IO_flockfile (stderr);
int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;
__fxprintf (NULL, "%s", buf);
((_IO_FILE *) stderr)->_flags2 = old_flags2;
_IO_funlockfile (stderr);
free (buf);
}
#endif
}
d->__nextchar = (char *) "";
d->optind++;
d->optopt = 0;
return '?';
}
}
/* Look at and handle the next short option-character. */
{
char c = *d->__nextchar++;
char *temp = strchr (optstring, c);

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/* Increment 'optind' when we start to process its last character. */
if (*d->__nextchar == '\0')
    ++d->optind;

if (temp == NULL || c == ':')
    }
if (print_errors)
    {
    #if defined _LIBC && defined USE_IN_LIBIO
    char *buf;
    int n;
    #endif

    if (d->__posixly_correct)
    {
    /* 1003.2 specifies the format of this message. */
    #if defined _LIBC && defined USE_IN_LIBIO
    n = __asprintf (&buf, _("%s: illegal option -- %c\n"),
argc[0], c);
    #else
    fprintf (stderr, _("%s: illegal option -- %c\n"), argv[0], c);
    #endif
    }
    else
    {
    #if defined _LIBC && defined USE_IN_LIBIO
    n = __asprintf (&buf, _("%s: invalid option -- %c\n"),
argc[0], c);
    #else
    fprintf (stderr, _("%s: invalid option -- %c\n"), argv[0], c);
    #endif
    }

    #if defined _LIBC && defined USE_IN_LIBIO
    if (n >= 0)
    {
    _IO_flockfile (stderr);

    int old_flags2 = ((__IO_FILE *) stderr)->_flags2;
    ((__IO_FILE *) stderr)->_flags2 |= __IO_FLAGS2_NOTCANCEL;

    __fxprintf (NULL, "%s", buf);

    ((__IO_FILE *) stderr)->_flags2 = old_flags2;
    _IO_funlockfile (stderr);

    free (buf);
    }
/* Convenience. Treat POSIX -W foo same as long option --foo */
if (temp[0] == 'W' && temp[1] == ':')
{
    char *nameend;
    const struct option *p;
    const struct option *pfound = NULL;
    int exact = 0;
    int ambig = 0;
    int indfound = 0;
    int option_index;

    /* This is an option that requires an argument. */
    if (*d->__nextchar != '\0')
    {
        d->optarg = d->__nextchar;
        /* If we end this ARGV-element by taking the rest as an arg,
         we must advance to the next element now. */
        d->optind++;
    }
    else if (d->optind == argc)
    {
        if (print_errors)
        {
            /* 1003.2 specifies the format of this message. */
            #if defined _LIBC && defined USE_IN_LIBIO
            char *buf;
            if (__asprintf (&buf,
                "%s: option requires an argument -- %c
"),
                argv[0], c) >= 0)
            {
                _IO_flockfile (stderr);
                
                int old_flags2 = ((__FILE *) stderr)->flags2;
                ((__FILE *) stderr)->flags2 |= _IO_FLAGS2_NOTCANCEL;

                __fxprintf (NULL, "%s", buf);

                ((__FILE *) stderr)->flags2 = old_flags2;
                _IO_funlockfile (stderr);

                free (buf);
            }
        }
    }
# else
fprintf (stderr, _("%s: option requires an argument -- %c\n"),
argv[0], c);
#endif
}

d->optopt = c;
if (optstring[0] == ':')
c = ':';
else
  c = '?';
return c;
}
else
  /* We already incremented 'd->optind' once;
   increment it again when taking next ARGV-elt as argument. */
d->optarg = argv[d->optind++];

/* optarg is now the argument, see if it's in the
   table of longopts. */
for (d->__nextchar = nameend = d->optarg; *nameend && *nameend != '=';
   nameend++)
  /* Do nothing. */
/* Test all long options for either exact match
   or abbreviated matches. */
for (p = longopts, option_index = 0; p->name; p++, option_index++)
  if (!strncmp (p->name, d->__nextchar, nameend - d->__nextchar))
    { /* Exact match found. */
      pfound = p;
      indfound = option_index;
      exact = 1;
      break;
    }
  else if (pfound == NULL)
    { /* First nonexact match found. */
      pfound = p;
      indfound = option_index;
    }
  else
    /* Second or later nonexact match found. */
    ambig = 1;
  }
if (ambig && !exact)
if (print_errors)
{
    #if defined _LIBC && defined USE_IN_LIBIO
    char *buf;

    if (__asprintf (&buf, _("%s: option '-W %s' is ambiguous\n"),
            argv[0], argv[d->optind]) >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((__IO_FILE *) stderr)->flags2;
        ((__IO_FILE *) stderr)->flags2 |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((__IO_FILE *) stderr)->flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }
    #else
    fprintf (stderr, _("%s: option '-W %s' is ambiguous\n"),
              argv[0], argv[d->optind]);
    #endif
}

if (pfound != NULL)
{
    option_index = indfound;
    if (*nameend)
    {
        /* Don't test has_arg with >, because some C compilers don't
           allow it to be used on enums. */
        if (pfound->has_arg)
            d->__nextchar += strlen (d->__nextchar);
        d->optind++;  
        return '?';
    }

    if (pfound != NULL)
    {
        option_index = indfound;
        if (*nameend)
        {
            /* Don't test has_arg with >, because some C compilers don't
               allow it to be used on enums. */
            if (pfound->has_arg)
                d->optarg = nameend + 1;
            else
                if (print_errors)
                {
                    #if defined _LIBC && defined USE_IN_LIBIO
                    char *buf;

                    if (__asprintf (&buf, _("%
                        %s: option '-W %s' doesn't allow an argument\n"),
                        argv[0], argv[d->optind]) >= 0)
                    {
                        _IO_flockfile (stderr);

                        int old_flags2 = ((__IO_FILE *) stderr)->flags2;
                        ((__IO_FILE *) stderr)->flags2 |= _IO_FLAGS2_NOTCANCEL;

                        __fxprintf (NULL, "%s", buf);

                        ((__IO_FILE *) stderr)->flags2 = old_flags2;
                        _IO_funlockfile (stderr);

                        free (buf);
                    }
                    #else
                    fprintf (stderr, _("%s: option '-W %s' doesn't allow an argument\n"),
                              argv[0], argv[d->optind]);
                    #endif
                }
            }
        }
    }
}
argv[0], pfound->name) >= 0)
{
    _IO_flockfile (stderr);

    int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
    ((_IO_FILE *) stderr)->_flags2 |
    = _IO_FLAGS2_NOTCANCEL;

    __fxprintf (NULL, "%s", buf);

    ((_IO_FILE *) stderr)->_flags2 = old_flags2;
    _IO_funlockfile (stderr);

    free (buf);
}
#else
    fprintf (stderr, _("%s: option '-W %s' doesn't allow an argument
"),
argv[0], pfound->name);
#endif
}

return '?';
}
}
else if (pfound->has_arg == 1)
{
if (d->optind < argc)
    d->optarg = argv[d->optind++];
else
{
    if (print_errors)
    {
#if defined _LIBC && defined USE_IN_LIBIO
        char *buf;

        if (__asprintf (&buf, _("%s: option '%s' requires an argument\n"),
argv[0], argv[d->optind - 1]) >= 0)
        {
            _IO_flockfile (stderr);

            int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
            ((_IO_FILE *) stderr)->_flags2 |
            = _IO_FLAGS2_NOTCANCEL;

            __fxprintf (NULL, "%s", buf);

            ((IO_FILE *) stderr)->_flags2 = old_flags2;
            _IO_funlockfile (stderr);

            free (buf);
        }
#endif

    }
}
}
d->optarg = d->__nextchar;
/* If we end this ARGV-element by taking the rest as an arg,
 we must advance to the next element now. */
if (d->optind++)
    }
else if (d->optind == argc)
    }
if (print_errors)
    {
    /* 1003.2 specifies the format of this message. */
#if defined _LIBC && defined USE_IN_LIBIO
    char *buf;

    if (!_asprintf (&buf, _("%s: option requires an argument -- %c\n"),
        argv[0], c) >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }
#else
    fprintf (stderr,
        _("%s: option requires an argument -- %c\n"),
        argv[0], c);
#endif
    #endif
    }
    d->optopt = c;
if (optstring[0] == ':')
    c = ':';
else
    c = '?';
}
else /* We already incremented 'optind' once;
increment it again when taking next ARGV-elt as argument. */
    d->optarg = argv[d->optind++];
d->__nextchar = NULL;
}
int
__getopt_internal (int argc, char **argv, const char *optstring,
   const struct option *longopts, int *longind,
   int long_only, int posixly_correct)
{
int result;

getopt_data.optind = optind;
getopt_data.opterr = opterr;

result = __getopt_internal_r (argc, argv, optstring, longopts, longind,
   long_only, posixly_correct, &getopt_data);

optind = getopt_data.optind;
optarg = getopt_data(optarg);
optopt = getopt_data.optopt;

return result;
}

/* glibc gets a LSB-compliant getopt.
   Standalone applications get a POSIX-compliant getopt. */
#if __LIBC
enum { POSIXLY_CORRECT = 0 };
#else
enum { POSIXLY_CORRECT = 1 };
#endif

int
getopt (int argc, char *const *argv, const char *optstring)
{
return __getopt_internal (argc, (char **) argv, optstring, NULL, NULL, 0,
   POSIXLY_CORRECT);
}

#ifdef TEST
/* Compile with -DTEST to make an executable for use in testing
   the above definition of 'getopt'. */

int
main (int argc, char **argv)
{

int c;
int digit_optind = 0;

while (1)
{
    int this_option_optind = optind ? optind : 1;

    c = getopt (argc, argv, "abc:d:0123456789");
    if (c == -1)
    break;

    switch (c)
    {
    case '0':
    case '1':
    case '2':
    case '3':
    case '4':
    case '5':
    case '6':
    case '7':
    case '8':
    case '9':
        if (digit_optind != 0 && digit_optind != this_option_optind)
            printf ("digits occur in two different argv-elements.\n");
        digit_optind = this_option_optind;
        printf ("option %c\n", c);
        break;
    case 'a':
        printf ("option a\n");
        break;
    case 'b':
        printf ("option b\n");
        break;
    case 'c':
        printf ("option c with value \"%s\n\", optarg);
        break;
    case '?':
        break;
    default:
        printf ("?? getopt returned character code 0%o ??\n", c);
    }
}
if (optind < argc)
{
    printf ("non-option ARGV-elements: ");
    while (optind < argc)
        printf ("%s ", argv[optind++]);
    printf ("\n");
}
exit (0);
}

#endif /* TEST */

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1.274 zlib 1.2.8

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

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

*/