Open Source Used In Viptela 20.1.1

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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.

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===========================
Advice for new contributors
===========================

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

   If you are new to contributing to Django, the :doc:`/intro/contributing` tutorial will give you an introduction to the tools and the workflow.

First steps
===========

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**
The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.

**Triage tickets**

If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug’s behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

**Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests </internals/contributing/writing-code/unit-tests>` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

**Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

**Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

   The `reports page`_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

   .. reports page: https://code.djangoproject.com/wiki/Reports

   .. CLA: https://www.djangoproject.com/foundation/cla/
   .. Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/
Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who hasn't spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

It's easier to get feedback on a little issue than on a big one. See the `easy pickings`.

* **If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without you!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as
such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ

===

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the [django-developers] mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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1.3 libjansson4 amd64:2.9-1

1.3.1 Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Jansson
Upstream-Contact: Petri Lehtinen <petri@digip.org>
Source: https://github.com/akheron/jansson

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1.4 libstd-c 8.2.0-1ubuntu2~18.04

1.5 tpm-tools 1.3.8 6.el7

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1.6 glibc 2.27

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1.7 util-linux 2.31

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Version 2.1, February 1999
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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.

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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
3a0982da308228d796df35f98d787c5c0f2bb5b6.

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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1.18 libuv 1.11.0 1
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 */

#elseif UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS
  uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
  int rcount;
  int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
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Open Source Used In Viptela 20.1.1357

>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x%d

# PC Screen (console) Fonts - psf2 header
#
0 lelong0x864ab572psf2 screen font data
>12lelong&11 with Unicode index
>16lelong%b, d glyphs
>28lelong%b, %dx
>24lelong%b%d
The file
kbrate.c
is Copyright (C) 1992 Rickard E. Faith.

The files
dumpkeys.c loadkeys.y loadkeys.analyze.1 ksym.ksyms.ksyms.h
showkey.c keymaps.5 loadkeys.1 dumpkeys.1 showkey.1
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setfont.c setfont.8 mapscrn.c mapscrn.8
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psfaddtable.1 psfgettable.1 psfstriptable.1
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getfd.c getkeycodes.c getunimap.c kbd_mode.c loadunimap.c
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setleds.c setmetamode.c setvesablank.c showconsolefont.c
spawn_console.c spawn_login.c
chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1
getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8
kbd.FAQ.*
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The file
openvt.c
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1.40 bridgeutils 1.6

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1.45 dmidecode 3.1

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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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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.)

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your school, if any, to sign a "copyright disclaimer" for the library,
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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!

1.47 libgcc 1:8.2.0-1ubuntu2~18.04

1.48 perl 5.24.4
1.48.1 Available under license:

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

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The hypothetical commands `show w' and `show c' should show the

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
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The End
#!perl

=head1 NAME

=copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut
use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = '';
    my $copyright_msg = <$readme>
    or die "Year not found in README copyright message '$copyright_msg'";

    my ($year) = $copyright_msg =~ /.*\d{4,}/s
    or die "Year not found in README copyright message $copyright_msg";

    $year;
sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b\d\{4,\}/i
    or die "Copyright statement not found in perl -v output '$output'';
  $year;
}

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

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abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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1.49 diffutils 3.6

1.49.1 Available under license:

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Version 3, 29 June 2007

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1.50 python-idna 2.6

1.51 python-six 1.11.0

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1.52 pigz 2.4

1.53 jemalloc 5.1.0
1.53.1 Available under license:

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1.56 cgreen 1.0.0

2c146fa3b5e33ecd5f4e513360f576f02323405b

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1.57 procps 3.3.15
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStar PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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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.)

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Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and its recent overhaul

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for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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#!/bin/sh
#
# update-rc.d	Update the links in /etc/rc[0-9S].d/
#
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initd="/etc/init.d"
etcd="/etc/rc"
notreally=0
force=0
dostart=0
verbose=0

usage()
{
cat >&2 <<EOF
 update-rc.d [-n] [-r <root>] [s] <basename> defaults [NN | sNN kNN]
 update-rc.d [-n] [-r <root>] [s] <basename> start|stop NN runlvl [runlvl] [...] .
-n: not really
-f: force
-v: verbose
-r: alternate root path (default is /)
-s: invoke start methods if appropriate to current runlevel
EOF
}

checklinks()
{
local i dn fn remove=0
if [ "x$1" = "xremove" ]; then
 echo " Removing any system startup links for $bn ...";
 remove=1
fi

for i in 0 1 2 3 4 5 6 7 8 9 S; do
dn="${etcd}$i.d"
if [ ! -d $dn ]; then
 continue;
fi
for f in ${dn}/[SK]??${bn}; do
 if [ -L $f ]; then
 remove 1
 fi
 echo " $f"
if [ $notreally -eq 0 ]; then
 continue
fi
rm $f

rm $f

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return 0
}
dolink()
{
  startstop=$1
  lev=`echo $2 | cut -d/ -f1`
nn=`echo $2 | cut -d/ -f2`
fn="${etcd}${lev}.d/${startstop}${nn}${bn}"
  [ $verbose -eq 1 ] && echo "$fn -> ../init.d/$bn"
if [ $notreally -eq 0 ]; then
  mkdir -p `dirname $fn`
  ln -s ../init.d/$bn $fn
fi
if [ $dostart -eq 1 ] && [ $startstop = "S" ] && [ $lev = $RUNLEVEL ]; then
  $fn start || true
fi
}
makelinks()
{
  if ! checklinks; then
    echo " System startup links for $initd/$bn already exist."
    echo " Adding system startup for $initd/$bn."
    echo " System startup links for $initd/$bn already exist."
    echo " Adding system startup for $initd/$bn."
    if [ $dostart -eq 1 ] && [ $notreally -eq 0 ] && [ -L ${etcd}${RUNLEVEL}.d/S??${bn} ]; then
      ${etcd}${RUNLEVEL}.d/S??${bn} restart || true
    fi
    exit 0
  fi

  for i in $startlinks; do
dolink S $i
done
  for i in $stoplinks; do
dolink K $i
done
  }

  while [ $# -gt 0 ]; do
case $1 in
    -n)notreally=1
    shift
    continue
    esac
  done
}
::
-v)verbose=1
shift
continue
::
-f)force=1
shift
continue
::
-s)dostart=1
shift
continue
::
-r)     shift
root=$1
initd="$root${initd}"
etcd="$root${etcd}"
shift
::
-h | --help)
usage
exit 0
::
-*)
usage
exit 1
::
*)
break
::
esac
done

if [ $# -lt 2 ]; then
usage
exit 1
fi

bn=$1
shift
sn=$initd/$bn
if [ -L "$sn" -a -n "$root" ]; then
if which readlink >/dev/null; then
while true; do
  linksn="$(readlink "$sn")"
if [ -z "$linksn" ]; then
  break
fi
  sn=$linksn
  shift

linksn="$(readlink "$sn")"
if [ -z "$linksn" ]; then
  break
fi

sn="$linksn"
case "$sn" in
  */ sn="$root$sn" ;;
  *)  sn="$initd/$sn" ;;
esac
done
else
  echo "update-rc.d: readlink tool not present, cannot check whether \n$sn symlink points to a valid file." >&2
  fi
  fi

  if [ $1 != "remove" ]; then
    if [ ! -f "$sn" ]; then
      echo "update-rc.d: $initd/$bn: file does not exist" >&2
      exit 1
    fi
    else
      if [ -f "$sn" ]; then
        if [ $force -eq 1 ]; then
          echo "update-rc.d: $initd/$bn exists during rc.d purge (continuing)" >&2
        else
          echo "update-rc.d: $initd/$bn exists during rc.d purge (use -f to force)" >&2
          exit 1
        fi
        fi
        fi

  if [ $dostart -eq 1 ]; then
    #RUNLEVEL=`sed '/\/[0-9].*/d' /proc/1/cmdline`
    RUNLEVEL=`runlevel | cut -d" " -f2`
    if [ "$RUNLEVEL" = "x" ]; then
      echo "Unable to determine current runlevel" >&2
      exit 1
    fi
    fi

  case $1 in
    remove)
      checklinks "remove"
    ;;
    defaults)
      if [ $# -gt 3 ]; then
        echo "defaults takes only one or two arguments" >&2
        usage
      fi

  fi

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exit 1
fi
start=20
stop=20
if [ $# -gt 1 ]; then
start=$2
stop=$2
fi
if [ $# -gt 2 ]; then
stop=$3
fi
start=`printf %02d $start`
stop=`printf %02d $stop`
stoplinks="0/$stop 1/$stop 6/$stop"
startlinks="2/$start 3/$start 4/$start 5/$start"
makelinks
;;

start | stop)
while [ $# -gt 0 ]; do
if [ $1 = "start" ]; then
letter=S
elif [ $1 = "stop" ]; then
letter=K
else
echo "expected start or stop" >&2
usage
exit 1
fi
shift
NN=`printf %02d $(expr $1 + 0)`
shift
while [ "x$1" != "x." ]; do
if [ $# -eq 0 ]; then
echo "action with list of runlevels not terminated by \." >&2
exit 1
fi
level=$1
shift
case $letter in
S) startlinks="$startlinks $level/$NN" ;;
K) stoplinks="$stoplinks $level/$NN" ;;
esac
done
shift
done
makelinks
;;
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1.79 python-pyopenssl 17.5.0
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1.82 certifi 2018.1.18

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

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

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

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```

@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
Metadata-Version: 1.1
Name: certifi
Version: 2018.1.18
Summary: Python package for providing Mozilla's CA Bundle.
Home-page: http://certifi.io/
Author: Kenneth Reitz
Author-email: me@kennethreitz.com
License: MPL-2.0
Description: Certifi: Python SSL Certificates

`Certifi`_ is a carefully curated collection of Root Certificates for validating the trustworthiness of SSL certificates while verifying the identity of TLS hosts. It has been extracted from the `Requests`_ project.

Installation
------------
```
`certifi` is available on PyPI. Simply install it with `pip`::

    $ pip install certifi
```

Usage
To reference the installed certificate authority (CA) bundle, you can use the built-in function::

```python
>>> import certifi

>>> certifi.where()
'/usr/local/lib/python2.7/site-packages/certifi/cacert.pem'
```

Enjoy!

1024-bit Root Certificates
~~~~~~~~~~~~~~~~~~~~~~~~~~

Browsers and certificate authorities have concluded that 1024-bit keys are unacceptably weak for certificates, particularly root certificates. For this reason, Mozilla has removed any weak (i.e. 1024-bit key) certificate from its bundle, replacing it with an equivalent strong (i.e. 2048-bit or greater key) certificate from the same CA. Because Mozilla removed these certificates from its bundle, `certifi` removed them as well.

In previous versions, `certifi` provided the `certifi.old_where()` function to intentionally re-add the 1024-bit roots back into your bundle. This was not recommended in production and therefore was removed. To assist in migrating old code, the function `certifi.old_where()` continues to exist as an alias of `certifi.where()`. Please update your code to use `certifi.where()` instead. `certifi.old_where()` will be removed in 2018.

.. _`Requests`: http://docs.python-requests.org/en/latest/

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
This package contains a modified version of ca-bundle.crt:
ca-bundle.crt -- Bundle of CA Root Certificates

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

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

1.83 wildfly 10.1.0.Final

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*/

/* FAT32, VFAT, Atari format support, and various fixes additions May 1998 *
 * by Roman Hodek <Roman.Hodek@informatik.uni-erlangen.de> */

1.85 hostap-utils 0.4.7
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1.89 cronie 1.5.1-r0

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1.90 python-django 1.11.11 1.el7ost

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A. HISTORY OF THE SOFTWARE

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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2.1.1  2.1+2.0.1  2001  PSF  yes
2.1.2  2.1.1  2002  PSF  yes
2.1.3  2.1.2  2002  PSF  yes
2.2 and above  2.1.1  2001-now  PSF  yes

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====================================
Advice for new contributors
====================================

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

   If you are new to contributing to Django, the :doc:`/intro/contributing` tutorial will give you an introduction to the tools and the workflow.

First steps
============

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.

* **Triage tickets**

If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite.
Leave comments and feedback!

**Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

**Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

The `reports page`_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. _reports page: https://code.djangoproject.com/wiki/Reports

.. _CLA: https://www.djangoproject.com/foundation/cla/
.. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/
.. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

**Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

**Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been...
recently involved in a discussion, then a ticket may not have the support required to get into Django.

**Start small**

It's easier to get feedback on a little issue than on a big one. See the `easy pickings`_.

**If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

**Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

**Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

**Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

**Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:
FAQ
===

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the [django-developers] mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> icu4c-4.4.1

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

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

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

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

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

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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE
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    L. Peter Deutsch
    ghost@aladdin.com
Independent implementation of MD5 (RFC 1321).

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

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

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

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

Asynchronous socket services

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

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

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.93 dpdk 18.02.2

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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1.97 e2fsprogs 1.43.8

1.97.1 Available under license:

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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

(one line to give the program's name and a brief idea of what it does.>
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Theodore Ts'o
23-June-2007

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

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/
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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$((INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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

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

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

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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1.98 python-requests 2.18.4

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1.99 libcpuid 0.4.0

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Upstream-Name: libcpuid
Source: http://github.com/anrieff/libcpuid

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1.100 attr 2.4.47

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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
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Files: progs/tset.c ncurses/tinfo/read_termcap.c
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
1.107 urllib3 1.22

1.108 usbutils 009

1.108.1 Available under license:

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1.111 gdbm 1.14.1 1.0

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1.112 stuntman 1.2.1

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5bb6.

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

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

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1.123 tcp-dump 4.9.2

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1.124 dnsmasq 2.79

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# NOTE: Building the i18n targets requires GNU-make

# Variables you may well want to override.

PREFIX        = /usr/local
BINDIR        = $(PREFIX)/sbin
MANDIR        = $(PREFIX)/share/man
LOCALEDIR     = $(PREFIX)/share/locale
BUILDDIR      = $(SRC)
DESTDIR       =
CFLAGS        = -Wall -W -O2
LDFLAGS       =
COPTS         =
RPM_OPT_FLAGS =
LIBS          =

# Variables you might want to override.

PKG_CONFIG = pkg-config
INSTALL    = install
MSGMERGE   = msgmerge
MSGFMT     = msgfmt
XGETTEXT   = xgettext

SRC = src
PO = po
MAN = man

# pmake way. (NB no spaces to keep gmake 3.82 happy)
top!=pwd
# GNU make way.
top?="$(CURDIR)"

dbus_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DBUS $(PKG_CONFIG) --cflags dbus-1`
dbus_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DBUS $(PKG_CONFIG) --libs dbus-1`
idn_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_IDN $(PKG_CONFIG) --cflags libidn`
idn_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_IDN $(PKG_CONFIG) --libs libidn`
idn2_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LIBIDN2 $(PKG_CONFIG) --cflags libidn2`
idn2_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LIBIDN2 $(PKG_CONFIG) --libs libidn2`
ct_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_CONNTRACK $(PKG_CONFIG) --cflags libnetfilter_conntrack`
ct_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_CONNTRACK $(PKG_CONFIG) --libs`
libnetfilter_conntrack
lua_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LUASCRIPT $(PKG_CONFIG) --cflags lua5.2`
lua_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LUASCRIPT $(PKG_CONFIG) --libs lua5.2`
nettle_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC $(PKG_CONFIG) --cflags nettle hogweed`
nettle_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC $(PKG_CONFIG) --libs nettle hogweed`
gmp_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC NO_GMP --copy -lgmp`
sunos_libs = `if uname | grep SunOS >dev/null 2>&1; then echo -lsocket -lnsl -lposix4; fi`
version = -DVERSION=""$(top)/bld/get-version $(top)"

sum?=$(shell $(CC) -DDNSMASQ_COMPILE_OPTS $(COPTS) -E $(top)/$(SRC)/dnsmasq.h | ( md5sum 2>dev/null || md5 ) | cut -f 1 -d ' ')
sum!=$(CC) -DDNSMASQ_COMPILE_OPTS $(COPTS) -E $(top)/$(SRC)/dnsmasq.h | ( md5sum 2>dev/null || md5 ) | cut -f 1 -d ' '
copts_conf = .copts_(sum)
objs = cache.o rfc1035.o util.o option.o forward.o network.o 
      dnsmasq.o dhcpc.o lease.o rfc2131.o netlink.o dbus.o bpf.o 
      helper.o tftp.o log.o conntrack.o dhcp6.o rfc3315.o 
      dhcp-common.o outpacket.o radv.o slaac.o auth.o ipset.o 
      domain.o dnssec.o blockdata.o tables.o loop.o inotify.o 
      poll.o rfilter.o edns0.o arp.o crypto.o

hdrs = dnsmasq.h config.h dhcp-protocol.h dhcp6-protocol.h 
      dns-protocol.h radv-protocol.h ip6addr.h

all : $(BUILDDIR)
@cd $(BUILDDIR) && $(MAKE) 

top="$\(top\)"
build_cflags="$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)" 
build_libs="$(dbus_libs) $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)" 
-f $(top)/Makefile dnsmasq

mostly_clean :
rm -f $(BUILDDIR)/*.mo $(BUILDDIR)/*.pot
rm -f $(BUILDDIR)/.copts_ $(BUILDDIR)/.o $(BUILDDIR)/dnsmasq.a $(BUILDDIR)/dnsmasq

clean : mostly_clean
rm -f $(BUILDDIR)/dnsmasq_baseline
rm -f core */core
rm -f */contrib/*/*~ */*/~

install : all install-common

install-common :
$\(INSTALL\) -d $(DESTDIR)/$(BINDIR) $(DESTDIR)/$(MANDIR)/man8
$\(INSTALL\) -m 644 $(MAN)/dnsmasq.8 $(DESTDIR)/$(MANDIR)/man8
$\(INSTALL\) -m 755 $(BINDIR)/dnsmasq $(DESTDIR)/$(BINDIR)
all-i18n: $(BUILD_DIR)
@cd $(BUILD_DIR) & & $(MAKE) \
  top="$(top)" \
i18n=-DLOCALEDIR="$(LOCALEDIR)"
\build_cflags="$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)" \n  build_libs="$(dbus_libs) $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)" \n  -f $(top)/Makefile dnsmasq
  for f in `cd $(PO); echo *.po`; do \n    cd $(top) & & cd $(BUILD_DIR) & & $(MAKE) top="$(top)" -f $(top)/Makefile $$%po.mo; \n    done

install-i18n: all-i18n install-common
cd $(BUILD_DIR); $(top)/bld/install-mo $(DESTDIR)$(LOCALDIR) $(INSTALL)
cd $(MAN); ../bld/install-man $(DESTDIR)$(MANDIR) $(INSTALL)
merge:
@cd $(BUILD_DIR) & & $(MAKE) top="$(top)" -f $(top)/Makefile dnsmasq.pot
  for f in `cd $(PO); echo *.po`; do \n    echo -n msgmerge $(PO)/$$f && $(MSGMERGE) --no-wrap -U $(PO)/$$f $(BUILDDIR)/dnsmasq.pot; \n    done

# Canonicalise .po file.
% .po:
@cd $(BUILD_DIR) & & $(MAKE) -f $(top)/Makefile dnsmasq.pot
  mv $(PO)/%*.po $(PO)/%*.po.orig & & $(MSGMERGE) --no-wrap -U $(PO)/%*.po.orig $(BUILDDIR)/dnsmasq.pot >$(PO)/%*.po;

$(BUILD_DIR):
mkdir -p $(BUILD_DIR)

# rules below are helpers for size tracking
baseline: mostly_clean all
@cd $(BUILD_DIR) & & 
  mv dnsmasq dnsmasq_baseline
bloatcheck: $(BUILD_DIR)/dnsmasq_baseline mostly_clean all
@cd $(BUILD_DIR) & & 
  $(top)/bld/bloat-o-meter dnsmasq_baseline dnsmasq; \n  size dnsmasq_baseline dnsmasq

# rules below are targets in recursive makes with cwd=$(BUILD_DIR)
$(copts_conf): $(hdrs)
@rm -f *.o .copts_*
@touch $@
$(objs:.o=.c) $(hdrs):
ln -s $(top)/$(SRC)/$@ .

$(objs): $(copts_conf) $(hdrs)

.c.o:
$(CC) $(CFLAGS) $(COPTS) $(i18n) $(build_cflags) $(RPM_OPT_FLAGS) -c $<

dnsmasq : $(objs)
$(CC) $(LDFLAGS) -o $@ $(objs) $(build_libs) $(LIBS)

dnsmasq.pot : $(objs:.o=.c) $(hdrs)
$(XGETTEXT) -d dnsmasq --foreign-user --omit-header --keyword=_ -o $@ -i $(objs:.o=.c)

%.mo : $(top)/$(PO)/%.po dnsmasq.pot
$(MSGMERGE) -o - $(top)/$(PO)/$*.po dnsmasq.pot | $(MSGFMT) -o $*.mo -

.PHONY : all clean mostly_clean install install-common all-i18n install-i18n merge baseline bloatcheck
/* dnsmasq is Copyright (c) 2000-2018 Simon Kelley

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*/

#include "dnsmasq.h"

/* Time between forced re-loads from kernel. */
#define INTERVAL 90

#define ARP_MARK 0
#define ARP_FOUND 1 /* Confirmed */
#define ARP_NEW 2 /* Newly created */
#define ARP_EMPTY 3 /* No MAC addr */

struct arp_record {
  unsigned short hwlen, status;
  int family;
  unsigned char hwaddr[DHCP_CHADDR_MAX];
struct all_addr addr;
struct arp_record *next;
};

static struct arp_record *arps = NULL, *old = NULL, *freelist = NULL;
static time_t last = 0;

static int filter_mac(int family, char *addrp, char *mac, size_t maclen, void *parmv)
{
    struct arp_record *arp;

    (void)parmv;

    if (maclen > DHCP_CHADDR_MAX)
        return 1;

#ifndef HAVE_IPV6
    if (family != AF_INET)
        return 1;
#endif

    /* Look for existing entry */
    for (arp = arps; arp; arp = arp->next)
    {
        if (family != arp->family || arp->status == ARP_NEW)
            continue;

        if (family == AF_INET)
        {
            if (arp->addr.addr.addr4.s_addr != ((struct in_addr *)addrp)->s_addr)
                continue;
        }
        #ifdef HAVE_IPV6
        else
        {
            if (!IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, (struct in6_addr *)addrp))
                continue;
        }
        #endif

        if (family == AF_INET)
        {
            if (arp->addr.addr.addr4.s_addr != ((struct in_addr *)addrp)->s_addr)
                continue;
        }
        #ifdef HAVE_IPV6
        else
        {
            if (!IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, (struct in6_addr *)addrp))
                continue;
        }
        #endif

        if (arp->status == ARP_EMPTY)
        {
            /* existing address, was negative. */
            arp->status = ARP_NEW;
            arp->hwlen = maclen;
            memcpy(arp->hwaddr, mac, maclen);
        }
        else if (arp->hwlen == maclen && memcmp(arp->hwaddr, mac, maclen) == 0)
/* Existing entry matches - confirm */
arp->status = ARP_FOUND;
else
    continue;

    break;
}

if (!arp)
{
    /* New entry */
    if (freelist)
    {
        arp = freelist;
        freelist = freelist->next;
    }
    else if (!arp = whine_malloc(sizeof(struct arp_record)))
        return 1;

    arp->next = arps;
    arps = arp;
    arp->status = ARP_NEW;
    arp->hwlen = maclen;
    arp->family = family;
    memcpy(arp->hwaddr, mac, maclen);
    if (family == AF_INET)
        arp->addr.addr.addr4.s_addr = ((struct in_addr *)addrp)->s_addr;
#ifdef HAVE_IPV6
    else
        memcpy(&arp->addr.addr.addr6, addrp, IN6ADDRSZ);
#endif
}

return 1;
}

/* If in lazy mode, we cache absence of ARP entries. */
int find_mac(union mysockaddr *addr, unsigned char *mac, int lazy, time_t now)
{
    struct arp_record *arp, *tmp, **up;
    int updated = 0;

    again:

    /* If the database is less then INTERVAL old, look in there */
    if (difftime(now, last) < INTERVAL)
    {
        /* addr == NULL -> just make cache up-to-date */
if (!addr)
return 0;

for (arp = arps; arp; arp = arp->next)
{
if (addr->sa.sa_family != arp->family)
continue;

if (arp->family == AF_INET &&
    arp->addr.addr4.s_addr != addr->in.sin_addr.s_addr)
continue;

#ifdef HAVE_IPV6
if (arp->family == AF_INET6 &&
    !IN6_ARE_ADDR_EQUAL(&arp->addr.addr6, &addr->in6.sin6_addr))
continue;
#endif
/* Only accept positive entries unless in lazy mode. */
if (arp->status != ARP_EMPTY || lazy || updated)
{
if (mac && arp->hwlen != 0)
memcpy(mac, arp->hwaddr, arp->hwlen);
return arp->hwlen;
}
}

/* Not found, try the kernel */
if (!updated)
{
updated = 1;
last = now;

/* Mark all non-negative entries */
for (arp = arps; arp; arp = arp->next)
if (arp->status != ARP_EMPTY)
arp->status = ARP_MARK;

iface_enumerate(AF_UNSPEC, NULL, filter_mac);

/* Remove all unconfirmed entries to old list. */
for (arp = arps, up = &arps; arp; arp = tmp)
{
tmp = arp->next;

if (arp->status == ARP_MARK)
{
*up = arp->next;
    arp->next = old;
    old = arp;
} else
    up = &arp->next;
}

goto again;
}

/* record failure, so we don't consult the kernel each time
    we're asked for this address */
if (freelist)
{
    arp = freelist;
    freelist = freelist->next;
} else
    arp = whine_malloc(sizeof(struct arp_record));

if (arp)
{
    arp->next = arps;
    arps = arp;
    arp->status = ARP_EMPTY;
    arp->family = addr->sa.sa_family;
    arp->hwlen = 0;

    if (addr->sa.sa_family == AF_INET)
        arp->addr.addr.addr4.s_addr = addr->in.sin_addr.s_addr;
#ifdef HAVE_IPV6
#else
    memcpy(&arp->addr.addr.addr6, &addr->in6.sin6_addr, IN6ADDRSZ);
#endif
}

return 0;
}

int do_arp_script_run(void)
{
    struct arp_record *arp;

    /* Notify any which went, then move to free list */
    if (old)
    {
        ifdef HAVE_SCRIPT
if (option_bool(OPT_SCRIPT_ARP))
    queue_arp(ACTION_ARP_DEL, old->hwaddr, old->hwlen, old->family, &old->addr);
#endif
    arp = old;
    old = arp->next;
    arp->next = freelist;
    freelist = arp;
    return 1;
}

for (arp = arps; arp; arp = arp->next)
    if (arp->status == ARP_NEW)
        {
            #ifdef HAVE_SCRIPT
            if (option_bool(OPT_SCRIPT_ARP))
                queue_arp(ACTION_ARP, arp->hwaddr, arp->hwlen, arp->family, &arp->addr);
            #endif
            arp->status = ARP_FOUND;
            return 1;
        }
return 0;
}
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Q: Why does dnsmasq open UDP ports >1024 as well as port 53. Is this a security problem/trojan/backdoor?

A: The high ports that dnsmasq opens are for replies from the upstream nameserver(s). Queries from dnsmasq to upstream nameservers are sent from these ports and replies received to them. The reason for doing this is that most firewall setups block incoming packets _to_ port 53, in order to stop DNS queries from the outside world. If dnsmasq sent its queries from port 53 the replies would be _to_ port 53 and get blocked.

This is not a security hole since dnsmasq will only accept replies to that port: queries are dropped. The replies must be to outstanding queries which dnsmasq has forwarded, otherwise they are dropped too.

Addendum: dnsmasq now has the option "query-port" (-Q), which allows you to specify the UDP port to be used for this purpose. If not specified, the operating system will select an available port number just as it did before.
Second addendum: following the discovery of a security flaw in the DNS protocol, dnsmasq from version 2.43 has changed behavior. It now uses a new, randomly selected, port for each query. The old default behaviour (use one port allocated by the OS) is available by setting --query-port=0, and setting the query port to a positive value still works. You should think hard and know what you are doing before using either of these options.

Q: Why doesn't dnsmasq support DNS queries over TCP? Don't the RFC's specify that?

A: Update: from version 2.10, it does. There are a few limitations:
data obtained via TCP is not cached, and source-address
or query-port specifications are ignored for TCP.

Q: When I send SIGUSR1 to dump the contents of the cache, some entries have no IP address and are for names like mymachine.mydomain.com.mydomain.com. What are these?

A: They are negative entries: that's what the N flag means. Dnsmasq asked an upstream nameserver to resolve that address and it replied "doesn't exist, and won't exist for <n> hours" so dnmasq saved that information so that if _it_ gets asked the same question it can answer directly without having to go back to the upstream server again. The strange repeated domains result from the way resolvers search short names. See "man resolv.conf" for details.

Q: Will dnsmasq compile/run on non-Linux systems?

A: Yes, there is explicit support for *BSD and MacOS X and Solaris.
There are start-up scripts for MacOS X Tiger and Panther in /contrib. Dnsmasq will link with uclibc to provide small binaries suitable for use in embedded systems such as routers. (There's special code to support machines with flash filesystems and no battery-backed RTC.)
If you encounter make errors with *BSD, try installing gmake from ports and building dnsmasq with "make MAKE=gmake"
For other systems, try altering the settings in config.h.

Q: My company's nameserver knows about some names which aren't in the public DNS. Even though I put it first in /etc/resolv.conf, it doesn't work: dnsmasq seems not to use the nameservers in the order given. What am I doing wrong?

A: By default, dnsmasq treats all the nameservers it knows about as equal: it picks the one to use using an algorithm designed to avoid nameservers which aren't responding. To make dnsmasq use the
servers in order, give it the -o flag. If you want some queries sent to a special server, think about using the -S flag to give the IP address of that server, and telling dnsmasq exactly which domains to use the server for.

Q: OK, I've got queries to a private nameserver working, now how about reverse queries for a range of IP addresses?

A: Use the standard DNS convention of <reversed address>.in-addr.arpa. For instance to send reverse queries on the range 192.168.0.0 to 192.168.0.255 to a nameserver at 10.0.0.1 do server=/0.168.192.in-addr.arpa/10.0.0.1 Note that the "bogus-priv" option take priority over this option, so the above will not work when the bogus-priv option is set.

Q: Dnsmasq fails to start with an error like this: "dnsmasq: bind failed: Cannot assign requested address". What's the problem?

A: This has been seen when a system is bringing up a PPP interface at boot time: by the time dnsmasq start the interface has been created, but not brought up and assigned an address. The easiest solution is to use --interface flags to specify which interfaces dnsmasq should listen on. Since you are unlikely to want dnsmasq to listen on a PPP interface and offer DNS service to the world, the problem is solved.

Q: I'm running on BSD and dnsmasq won't accept long options on the command line.

A: Dnsmasq when built on some BSD systems doesn't use GNU getopt by default. You can either just use the single-letter options or change config.h and the Makefile to use getopt-long. Note that options in /etc/dnsmasq.conf must always be the long form, on all platforms.

Q: Names on the internet are working fine, but looking up local names from /etc/hosts or DHCP doesn't seem to work.

A: Resolver code sometime does strange things when given names without any dots in. Win2k and WinXP may not use the DNS at all and just try and look up the name using WINS. On unix look at "options ndots:" in "man resolv.conf" for details on this topic. Testing lookups using "nslookup" or "dig" will work, but then attempting to run "ping" will get a lookup failure, appending a dot to the end of the hostname will fix things. (ie "ping myhost" fails, but "ping myhost." works. The solution is to make sure that all your hosts have a domain set ("domain" in resolv.conf, or set a domain in your DHCP server, see below for Windows XP and Mac OS X).
Any domain will do, but "localnet" is traditional. Now when you resolve "myhost" the resolver will attempt to look up "myhost.localnet" so you need to have dnsmasq reply to that name. The way to do that is to include the domain in each name on /etc/hosts and/or to use the --expand-hosts and --domain options.

Q: How do I set the DNS domain in Windows XP or MacOS X (ref: previous question)?

A: for XP, Control Panel > Network Connections > [Connection to gateway / DNS ] > Properties > [Highlight TCP/IP ] > Properties > Advanced > DNS Tab > DNS suffix for this connection:

A: for OS X, System Preferences > Network > {Connection to gateway / DNS } >
Search domains:

Q: Can I get dnsmasq to save the contents of its cache to disk when I shut my machine down and re-load when it starts again?

A: No, that facility is not provided. Very few names in the DNS have their time-to-live set for longer than a few hours so most of the cache entries would have expired after a shutdown. For longer-lived names it's much cheaper to just reload them from the upstream server. Note that dnsmasq is not shut down between PPP sessions so go off-line and then on-line again will not lose the contents of the cache.

Q: Who are Verisign, what do they have to do with the bogus-nxdomain option in dnsmasq and why should I worry about it?

A: [note: this was written in September 2003, things may well change.] Verisign run the .com and .net top-level-domains. They have just changed the configuration of their servers so that unknown .com and .net domains, instead of returning an error code NXDOMAIN, (no such domain) return the address of a host at Verisign which runs a web server showing a search page. Most right-thinking people regard this new behaviour as broken :-). You can test to see if you are suffering Verisign brokenness by run a command like

```bash
host jlsdajkdallld.com
```

If you get "jlsdajkdallld.com" does not exist, then all is fine, if host returns an IP address, then the DNS is broken. (Try a few different unlikely domains, just in case you picked a weird one which really _is_ registered.)

Assuming that your DNS is broken, and you want to fix it, simply note the IP address being returned and pass it to dnsmasq using the
--bogus-nxdomain flag. Dnsmasq will check for results returning that address and substitute an NXDOMAIN instead.

As of writing, the IP address in question for the .com and .net domains is is 64.94.110.11. Various other, less prominent, registries pull the same stunt; there is a list of them all, and the addresses to block, at http://winware.org/bogus-domains.txt

Q: This new DHCP server is well and good, but it doesn't work for me. What's the problem?

A: There are a couple of configuration gotchas which have been encountered by people moving from the ISC dhcpd to the dnsmasq integrated DHCP daemon. Both are related to differences in the way the two daemons bypass the IP stack to do "ground up" IP configuration and can lead to the dnsmasq daemon failing whilst the ISC one works.

The first thing to check is the broadcast address set for the ethernet interface. This is normally the address on the connected network with all ones in the host part. For instance if the address of the ethernet interface is 192.168.55.7 and the netmask is 255.255.255.0 then the broadcast address should be 192.168.55.255. Having a broadcast address which is not on the network to which the interface is connected kills things stone dead.

The second potential problem relates to firewall rules: since the ISC daemon in some configurations bypasses the kernel firewall rules entirely, the ability to run the ISC daemon does not indicate that the current configuration is OK for the dnsmasq daemon. For the dnsmasq daemon to operate it's vital that UDP packets to and from ports 67 and 68 and broadcast packets with source address 0.0.0.0 and destination address 255.255.255.255 are not dropped by iptables/ipchains.

Q: I'm running Debian, and my machines get an address fine with DHCP, but their names are not appearing in the DNS.

A: By default, none of the DHCP clients send the host-name when asking for a lease. For most of the clients, you can set the host-name to send with the "hostname" keyword in /etc/network/interfaces. (See "man interfaces" for details.) That doesn't work for dhclient, were you have to add something like "send host-name daisy" to /etc/dhclient.conf [Update: the latest dhcpcd packages _do_ send the hostname by default.

Q: I'm network booting my machines, and trying to give them static
DHCP-assigned addresses. The machine gets its correct address whilst booting, but then the OS starts and it seems to get allocated a different address.

A: What is happening is this: The boot process sends a DHCP request and gets allocated the static address corresponding to its MAC address. The boot loader does not send a client-id. Then the OS starts and repeats the DHCP process, but it does send a client-id. dnsmasq cannot assume that the two requests are from the same machine (since the client ID's don't match) and even though the MAC address has a static allocation, that address is still in use by the first incarnation of the machine (the one from the boot, without a client ID.) dnsmasq therefore has to give the machine a dynamic address from its pool. There are three ways to solve this: (1) persuade your DHCP client not to send a client ID, or (2) set up the static assignment to the client ID, not the MAC address. The default client-id will be 01:<MAC address>, so change the dhcp-host line from "dhcp-host=11:22:33:44:55:66,1.2.3.4" to "dhcp-host=id:01:11:22:33:44:55:66,1.2.3.4" or (3) tell dnsmasq to ignore client IDs for a particular MAC address, like this: dhcp-host=11:22:33:44:55:66,id:*

Q: What network types are supported by the DHCP server?

A: Ethernet (and 802.11 wireless) are supported on all platforms. On Linux all network types (including FireWire) are supported.

Q: What are these strange "bind-interface" and "bind-dynamic" options?

A: Dnsmasq from v2.63 can operate in one of three different "networking modes". This is unfortunate as it requires users configuring dnsmasq to take into account some rather bizarre constraints and select the mode which best fits the requirements of a particular installation. The origin of these are deficiencies in the Unix networking model and APIs and each mode has different advantages and problems. Just to add to the confusion, not all modes are available on all platforms (due the to lack of supporting network APIs). To further add to the confusion, the rules for the DHCP subsystem on dnsmasq are different to the rules for the DNS and TFTP subsystems.

The three modes are "wildcard", "bind-interfaces" and "bind-dynamic".

In "wildcard" mode, dnsmasq binds the wildcard IP address (0.0.0.0 or ::). This allows it to receive all the packets sent to the server on the relevant port. Access control (--interface, --except-interface, --listen-address, etc) is implemented by dnsmasq: it queries the kernel to determine the interface on which a packet was received and the address to which it was sent, and applies the configured
rules. Wildcard mode is the default if neither of the other modes are specified.

In "bind-interfaces" mode, dnsmasq runs through all the network interfaces available when it starts, finds the set of IP addresses on those interfaces, filters that set using the access control configuration, and then binds the set of IP addresses. Only packets sent to the allowed addresses are delivered by the kernel to dnsmasq.

In "bind-dynamic" mode, access control filtering is done both by binding individual IP addresses, as for bind-interfaces, and by inspecting individual packets on arrival as for wildcard mode. In addition, dnsmasq notices when new interfaces appear or new addresses appear on existing interfaces, and the resulting IP addresses are bound automatically without having to restart dnsmasq.

The mode chosen has four different effects: co-existence with other servers, semantics of --interface access control, effect of new interfaces, and legality of --interface specifications for non-existent interfaces. We will deal with these in order.

A dnsmasq instance running in wildcard mode precludes a machine from running a second instance of dnsmasq or any other DNS, TFTP or DHCP server. Attempts to do so will fail with an "address in use" error. Dnsmasq running in --bind-interfaces or bind-dynamic mode allow other instances of dnsmasq or other servers, as long as no two servers are configured to listen on the same interface address.

The semantics of --interface varies subtly between wildcard or bind-dynamic mode and bind-interfaces mode. The situation where this matters is a request which arrives via one interface (A), but with a destination address of a second interface (B) and when dnsmasq is configured to listen only on B. In wildcard or bind-dynamic mode, such a request will be ignored, in bind-interfaces mode, it will be accepted.

The creation of new network interfaces after dnsmasq starts is ignored by dnsmasq when in --bind-interfaces mode. In wildcard or bind-dynamic mode, such interfaces are handled normally.

An --interface specification for a non-existent interface is a fatal error at start-up when in --bind-interfaces mode, by just generates a warning in wildcard or bind-dynamic mode.

Q: Why doesn't Kerberos work/why can't I get sensible answers to queries for SRV records.

A: Probably because you have the "filterwin2k" option set. Note that
it was on by default in example configuration files included in
versions before 2.12, so you might have it set on without
realising.

Q: Can I get email notification when a new version of dnsmasq is
released?

A: Yes, new releases of dnsmasq are always announced through
freshmeat.net, and they allow you to subscribe to email alerts when
new versions of particular projects are released. New releases are
also announced in the dnmasq-discuss mailing list, subscribe at
http://lists.thekelleys.org.uk/mailman/listinfo/dnmasq-discuss

Q: What does the dhcp-authoritative option do?

A: The DHCP spec says that when a DHCP server receives a renewal request
from a client it has no knowledge of, it should just ignore it.
This is because it's supported to have more than one DHCP server
on a network, and another DHCP server may be dealing with the client.
This has the unfortunate effect that when _no_ DHCP replies to
the client, it takes some time for the client to time-out and start
to get a new lease. Setting this option makes dnsmasq violate the
standard to the extent that it will send a NAK reply to the client,
causing it to immediately start to get a new lease. This improves
behaviour when machines move networks, and in the case that the DHCP
lease database is lost. As long as there are not more tha one DHCP
server on the network, it's safe to enable the option.

Q: Why does my Gentoo box pause for a minute before getting a new
lease?

A: Because when a Gentoo box shuts down, it releases its lease with
the server but remembers it on the client; this seems to be a
Gentoo-specific patch to dhcpcd. On restart it tries to renew
a lease which is long gone, as far as dnsmasq is concerned, and
dnsmasq ignores it until is times out and restarts the process.
To fix this, set the dhcp-authoritative flag in dnsmasq.

Q: My laptop has two network interfaces, a wired one and a wireless
one. I never use both interfaces at the same time, and I'd like the
same IP and configuration to be used irrespective of which
interface is in use. How can I do that?

A: By default, the identity of a machine is determined by using the
MAC address, which is associated with interface hardware. Once an
IP is bound to the MAC address of one interface, it cannot be
associated with another MAC address until after the DHCP lease
expires. The solution to this is to use a client-id as the machine
identity rather than the MAC address. If you arrange for the same
client-id to be sent when either interface is in use, the DHCP server
will recognize the same machine, and use the same address. The
method for setting the client-id varies with DHCP client software,
dhcpcd uses the "-I" flag. Windows uses a registry setting,
see http://www.jsiinc.com/SUFB/TIP2800/rh2845.htm

Addendum:
From version 2.46, dnsmasq has a solution to this which doesn't
involve setting client-IDs. It's possible to put more than one MAC
address in a --dhcp-host configuration. This tells dnsmasq that it
should use the specified IP for any of the specified MAC addresses,
and furthermore it gives dnsmasq permission to summarily abandon a
lease to one of the MAC addresses if another one comes along. Note
that this will work fine only as longer as only one interface is
up at any time. There is no way for dnsmasq to enforce this
constraint: if you configure multiple MAC addresses and violate
this rule, bad things will happen.

Addendum-II: The link above is dead, the former contents of the link are:

How can I keep the same DHCP client reservation, if the MAC address changes?

When you reserve an IP address for a DHCP client, you provide the
MAC address of the client's NIC.

It is possible to use a custom identifier, which is sent as
option 61 in the client's DHCP Discover and Request packet.

The DhcpClientIdentifier is a REG_DWORD value that is located at:

Windows NT 4.0 SP2+

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\<Adapter Name>\Parameters\Tcpip

where <Adapter Name> is the NIC driver name and 'X' is the number of the NIC.

Windows 2000

HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\TcpIp\Parameters\Interfaces\<NIC GUID>

where <NIC GUID> is the GUID of the NIC.

The valid range of data is 0x0 - 0xFFFFFFFF. The custom identifier is sent as 4 bytes,
8 hexadecimal character, in groups of 2 hexadecimal characters, with the groups being
sent in reverse order. If the custom identifier is less than 8 hexadecimal characters,
it is zero padded at the end. Examples:
Q: Can dnsmasq do DHCP on IP-alias interfaces?

A: Yes, from version-2.21. The support is only available running under Linux, on a kernel which provides the RT-netlink facility. All 2.4 and 2.6 kernels provide RT-netlink and it's an option in 2.2 kernels.

If a physical interface has more than one IP address or aliases with extra IP addresses, then any dhcp-ranges corresponding to these addresses can be used for address allocation. So if an interface has addresses 192.168.1.0/24 and 192.168.2.0/24 and there are DHCP ranges 192.168.1.100-192.168.1.200 and 192.168.2.100-192.168.2.200 then both ranges would be used for host connected to the physical interface. A more typical use might be to have one of the address-ranges as static-only, and have known hosts allocated addresses on that subnet using dhcp-host options, while anonymous hosts go on the other.

Q: Dnsmasq sometimes logs "nameserver xxx.xxx.xxx.xxx refused to do a recursive query" and DNS stops working. What's going on?

A: Probably the nameserver is an authoritative nameserver for a particular domain, but is not configured to answer general DNS queries for an arbitrary domain. It is not suitable for use by dnsmasq as an upstream server and should be removed from the configuration. Note that if you have more than one upstream nameserver configured dnsmasq will load-balance across them and it may be some time before dnsmasq gets around to using a particular nameserver. This means that a particular configuration may work for sometime with a broken upstream nameserver configuration.
Q: Does the dnsmasq DHCP server probe addresses before allocating them, as recommended in RFC2131?

A: Yes, dynamically allocated IP addresses are checked by sending an ICMP echo request (ping). If a reply is received, then dnsmasq assumes that the address is in use, and attempts to allocate an different address. The wait for a reply is between two and three seconds. Because the DHCP server is not re-entrant, it cannot serve other DHCP requests during this time. To avoid dropping requests, the address probe may be skipped when dnsmasq is under heavy load.

Q: I'm using dnsmasq on a machine with the Firestarter firewall, and DHCP doesn't work. What's the problem?

A: This a variant on the iptables problem. Explicit details on how to proceed can be found at http://lists.thekelleys.org.uk/pipermail/dnsmasq-discuss/2005q3/000431.html

Q: I'm using dnsmasq on a machine with the shorewall firewall, and DHCP doesn't work. What's the problem?

A: This a variant on the iptables problem. Explicit details on how to proceed can be found at http://lists.thekelleys.org.uk/pipermail/dnsmasq-discuss/2007q4/001764.html

Q: Dnsmasq fails to start up with a message about capabilities. Why did that happen and what can do to fix it?

A: Change your kernel configuration: either deselect CONFIG_SECURITY or select CONFIG_SECURITY_CAPABILITIES. Alternatively, you can remove the need to set capabilities by running dnsmasq as root.

Q: Where can I get .rpms Suitable for openSUSE/SLES?

A: Dnsmasq is in openSUSE itself, and the latest releases are also available at http://download.opensuse.org/repositories/network/

Q: Can I run dnsmasq in a Linux vserver?

A: Yes, as a DNS server, dnsmasq will just work in a vserver. To use dnsmasq's DHCP function you need to give the vserver
extra system capabilities. Please note that doing so will lesser
the overall security of your system. The capabilities
required are NET_ADMIN and NET_RAW. NET_ADMIN is essential, NET_RAW
is required to do an ICMP “ping” check on newly allocated
addresses. If you don't need this check, you can disable it with
--no-ping and omit the NET_RAW capability.
Adding the capabilities is done by adding them, one per line, to
either /etc/vservers/<vservername>/ccapabilities for a 2.4 kernel or
/etc/vservers/<vservername>/bcapabilities for a 2.6 kernel (please
refer to the vserver documentation for more information).

Q: What's the problem with syslog and dnsmasq?

A: In almost all cases: none. If you have the normal arrangement with
local daemons logging to a local syslog, which then writes to disk,
then there's never a problem. If you use network logging, then
there's a potential problem with deadlock: the syslog daemon will
do DNS lookups so that it can log the source of log messages,
these lookups will (depending on exact configuration) go through
dnsmasq, which also sends log messages. With bad timing, you can
arrive at a situation where syslog is waiting for dnsmasq, and
dnsmasq is waiting for syslog; they will both wait forever. This
problem is fixed from dnsmasq-2.39, which introduces asynchronous
logging: dnsmasq no longer waits for syslog and the deadlock is
broken. There is a remaining problem in 2.39, where "log-queries"
is in use. In this case most DNS queries generate two log lines, if
these go to a syslog which is doing a DNS lookup for each log line,
then those queries will in turn generate two more log lines, and a
chain reaction runaway will occur. To avoid this, use syslog-ng
and turn on syslog-ng's dns-cache function.

Q: DHCP doesn't work with windows Vista, but everything else is fine.

A: The DHCP client on windows Vista (and possibly later versions)
demands that the DHCP server send replies as broadcasts. Most other
clients don't do this. The broadcasts are send to
255.255.255.255. A badly configured firewall which blocks such
packets will show exactly these symptoms (Vista fails, others
work).

Q: DHCP doesn't work with windows 7 but everything else is fine.

A: There seems to be a problem if Windows 7 doesn't get a value for
DHCP option 252 in DHCP packets it gets from the server. The
symptoms have been variously reported as continual DHCPINFORM
requests in an attempt to get an option-252, or even ignoring DHCP offers completely (and failing to get an IP address) if there is no option-252 supplied. DHCP option 252 is for WPAD, WWW Proxy Auto Detection and if you don't want or need to use that, then simplest fix seems to be to supply an empty option with:

dhcp-option=252,""
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1.126 bc 1.06

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1.130 efitools
1.7.0+git0649468475d20d8ca5634433c491246
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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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 */

/*
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (WEXITSTATUS(w) ? (_W_INT(w) >> 8) & 0377) : (WTERMSIG(w) & (WIFSIGNALED(w) ? 0177 : 0))
#define WEXITSTATUS(w) ((WIFSIGNALED(w) ? (_W_INT(w) >> 8) & 0377) : (WTERMSIG(w) & (WIFSIGNALED(w) ? 0177 : 0)))
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
#define WCOREFLAG 0x80
#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#error " sys/sys/poll.h"
#endif

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM 0x0080
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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 */
/*
 * Notice to programmers: Do not use this code as an example of how to
 * use the ISC library to perform DNS lookups. Dig and Host both operate
 * on the request level, since they allow fine-tuning of output and are
 * intended as debugging tools. As a result, they perform many of the
 * functions which could be better handled using the dns_resolver
 * functions in most applications.
 */

#include <config.h>
#include <inttypes.h>
#include <stdbool.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#include <limits.h>
#include <errno.h>
#ifdef HAVE_LOCALE_H
#include <locale.h>
#endif
#ifdef WITH_IDN_SUPPORT
#ifdef WITH_IDNKIT
#include <idn/result.h>
#include <idn/log.h>
#include <idn/resconf.h>
#include <idn/api.h>
#endif
#ifdef WITH_LIBIDN2
#include <idn2.h>
#endif
#endif /* WITH_IDN_SUPPORT */
#include <dns/byaddr.h>
#ifdef DIG_SIGCHASE
#include <dns/callbacks.h>
#include <dns/dnssec.h>
#include <dns/ds.h>
#include <dns/master.h>
#include <dns/nsec.h>
#include <isc/random.h>
#include <ctype.h>
#endif
#include <dns/fixedname.h>
#include <dns/log.h>
#include <dns/message.h>
#include <dns/name.h>
#include <dns/rcode.h>
#include <dns/rdata.h>
#include <dns/rdataclass.h>
#include <dns/rdatalist.h>
#include <dns/rdataset.h>
#include <dns/rdatalist.h>
#include <dns/rdatastruct.h>
#include <dns/rdatatype.h>
#include <dns/result.h>
#include <dns/tsig.h>

#include <dst/dst.h>
#include <dst/result.h>

#include <isc/app.h>
#include <isc/base64.h>
#include <isc/entropy.h>
#include <isc/file.h>
#include <isc/hex.h>
#include <isc/lang.h>
#include <isc/log.h>
#include <isc/netaddr.h>
#include <isc/netdb.h>
#include <isc/parseint.h>
#include <isc/print.h>
#include <isc/random.h>
#include <isc/result.h>
#include <isc/safe.h>
#include <isc/serial.h>
#include <isc/sockaddr.h>
#include <isc/string.h>
#include <isc/task.h>
#include <isc/timer.h>
#include <isc/types.h>
#include <isc/util.h>

#include <pk11/site.h>

#include <isccfg/namedconf.h>

#include <lwres/lwres.h>
#include <lwres/net.h>
#include <bind9/getaddresses.h>

#include <dig/dig.h>

#ifdef PKCS11CRYPTO
#include <pk11/result.h>
#endif

#if ! defined(NS_INADDRSZ)
define NS_INADDRSZ 4
#endif

#if ! defined(NS_IN6ADDRSZ)
define NS_IN6ADDRSZ16
#endif

static lwres_context_t *lwctx = NULL;
static lwres_conf_t *lwconf;

dig_lookuplist_t lookup_list;
dig_serverlist_t server_list;
dig_searchlistlist_t search_list;

bool check_ra = false,
have_ipv4 = false,
have_ipv6 = false,
specified_source = false,
free_now = false,
cancel_now = false,
usesearch = false,
showsearch = false,
qr = false,
is_dst_up = false,
keep_open = false,
verbose = false;
in_port_t port = 53;
unsigned int timeout = 0;
unsigned int extrabytes;
isc_mem_t *mctx = NULL;
isc_log_t *lctx = NULL;
isc_taskmgr_t *taskmgr = NULL;
isc_task_t *global_task = NULL;
isc_timermgr_t *timermgr = NULL;
isc_socketmgr_t *socketmgr = NULL;
isc_sockaddr_t bind_address;
isc_sockaddr_t bind_any;
int sendcount = 0;
int recvcount = 0;
int sockcount = 0;
int ndots = -1;
int tries = 3;
int lookup_counter = 0;

static char servercookie[256];

#ifdef WITH_IDN_SUPPORT
static void idn_initialize(void);
static isc_result_t idn_locale_to_ace(const char *from,
char *to,
size_t tolen);
#endif /* WITH_IDN_SUPPORT */

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t idn_ace_to_locale(const char *from,
char *to,
size_t tolen);
static isc_result_t output_filter(isc_buffer_t *buffer,
unsigned int used_org,
bool absolute);
#define MAXDLEN 256
#endif /* WITH_IDN_OUT_SUPPORT */

#ifdef WITH_IDNKIT
int idnoptions = 0;
#endif
#endif /* WITH_IDN_OUT_SUPPORT */

isc_socket_t *keep = NULL;
isc_sockaddr_t keepaddr;

/*%
 * Exit Codes:
 *%
 *\li 0   Everything went well, including things like NXDOMAIN
 *\li 1   Usage error
 *\li 7   Got too many RR's or Names
 *\li 8   Couldn't open batch file
 *\li 9   No reply from server
 *\li 10  Internal error
 */
int exitcode = 0;
int fatalexit = 0;
char keynametext[MXNAME];
char keyfile[MXNAME] = "";
char keysecret[MXNAME] = "";
unsigned char cookie_secret[33];
unsigned char cookie[8];
dns_name_t *hmacname = NULL;
unsigned int digestbits = 0;
isc_buffer_t *namebuf = NULL;
dns_tsigkey_t *tsigkey = NULL;
bool validated = true;
isc_entropy_t *entp = NULL;
isc_mempool_t *commctx = NULL;
bool debugging = false;
bool debugtiming = false;
bool memdebugging = false;
char *progname = NULL;
isc_mutex_t lookup_lock;
dig_lookup_t *current_lookup = NULL;

#ifdef DIG_SIGCHASE

isc_result_t get_trusted_key(void);
dns_rdataset_t * sigchase_scanname(dns_rdatatype_t type,
    dns_rdatatype_t covers,
    bool *lookedup,
    dns_name_t *rdata_name);
dns_rdataset_t *  chase_scanname_section(dns_message_t *msg,
    dns_name_t *name,
    dns_rdatatype_t type,
    dns_rdatatype_t covers,
    int section);
isc_result_t advanced_rrsearch(dns_rdataset_t **rdataset,
    dns_name_t *name,
    dns_rdatatype_t type,
    dns_rdatatype_t covers,
    bool *lookedup);
isc_result_t sigchase_verify_sig_key(dns_name_t *name,
    dns_rdataset_t *rdataset,
    dst_key_t* dnsseckey,
    dns_rdataset_t *sigrdataset);
isc_result_t sigchase_verify_sig(dns_name_t *name,
    dns_rdataset_t *rdataset,
    dns_rdataset_t *keyrdataset,
    dns_rdataset_t *sigrdataset);
isc_result_t sigchase_verify_ds(dns_name_t *name,
    dns_rdataset_t *keyrdataset,
    dns_rdataset_t *dsrdataset);
void sigchase(dns_message_t *msg);
void print_rdata(dns_rdata_t *rdata, isc_mem_t *mctx);
void print_rdataset(dns_name_t *name, dns_rdataset_t *rdataset);
void dup_name(dns_name_t *source, dns_name_t* target);
void free_name(dns_name_t *name);

#endif
void dump_database(void);
void dump_database_section(dns_message_t *msg, int section);
dns_rdataset_t * search_type(dns_name_t *name, dns_rdatatype_t type,
        dns_rdatatype_t covers);
isc_result_t contains_trusted_key(dns_name_t *name,
        dns_rdataset_t *rdataset,
        dns_rdataset_t *sigrdataset);
void print_type(dns_rdatatype_t type);
isc_result_t prove_nx_domain(dns_message_t * msg,
        dns_name_t * name,
        dns_name_t * rdata_name,
        dns_rdataset_t ** rdataset,
        dns_rdataset_t ** sigrdataset);
isc_result_t prove_nx_type(dns_message_t * msg, dns_name_t *name,
        dns_rdataset_t *nsec,
        dns_rdataclass_t rdclass,
        dns_rdatatype_t type,
        dns_name_t * rdata_name,
        dns_rdataset_t ** rdataset,
        dns_rdataset_t ** sigrdataset);
isc_result_t prove_nx(dns_message_t * msg, dns_name_t * name,
        dns_rdataclass_t rdclass,
        dns_rdatatype_t type,
        dns_name_t * rdata_name,
        dns_rdataset_t ** rdataset,
        dns_rdataset_t ** sigrdataset);
static void nameFromString(const char *str, dns_name_t *p_ret);
int inf_name(dns_name_t * name1, dns_name_t * name2);
isc_result_t removetmpkey(const char *file);
void clean_trustedkey(void);
isc_result_t insert_trustedkey(void *arg, dns_name_t *name,
        dns_rdataset_t *rdataset);
#if DIG_SIGCHASE_BU
isc_result_t getneededrr(dns_message_t *msg);
void sigchase_bottom_up(dns_message_t *msg);
void sigchase_bu(dns_message_t *msg);
#endif
#if DIG_SIGCHASE_TD
isc_result_t initialization(dns_name_t *name);
isc_result_t prepare_lookup(dns_name_t *name);
isc_result_t grandfather_pb_test(dns_name_t * zone_name,
        dns_rdataset_t *sigrdataset);
isc_result_t child_of_zone(dns_name_t *name,
        dns_name_t *zone_name,
        dns_name_t *child_name);
void sigchase_td(dns_message_t *msg);
#endif
char trustedkey[MXNAME] = "";
dns_rdataset_t *chase_rdataset = NULL;
dns_rdataset_t *chase_sigrdataset = NULL;
dns_rdataset_t *chase_dsrdataset = NULL;
dns_rdataset_t *chase_sigsrdataset = NULL;
dns_rdataset_t *chase_keyrdataset = NULL;
dns_rdataset_t *chase_sigkeyrdataset = NULL;
dns_rdataset_t *chase_nsrdataset = NULL;

dns_name_t chase_name; /* the query name */
#if DIG_SIGCHASE_TD
/*
 * the current name is the parent name when we follow delegation
 */
dns_name_t chase_current_name;
/*
 * the child name is used for delegation (NS DS responses in AUTHORITY section)
 */
dns_name_t chase_authority_name;
#endif
#if DIG_SIGCHASE_BU

dns_name_t chase_signame;
#endif

bool chase_siglookedup = false;
bool chase_keylookedup = false;
bool chase_sigkeylookedup = false;
bool chase_dslookedup = false;
bool chase_sigslookedup = false;
#if DIG_SIGCHASE_TD
bool chase_nslookedup = false;
bool chase_lookedup = false;
#endif

bool delegation_follow = false;
bool grandfather_pb = false;
bool have_response = false;
bool have_delegation_ns = false;
dns_message_t * error_message = NULL;
#endif

bool dsvalidating = false;
bool chase_name_dup = false;

ISC_LIST(dig_message_t) chase_message_list;
ISC_LIST(dig_message_t) chase_message_list2;
#define MAX_TRUSTED_KEY 5
typedef struct struct_trusted_key_list {
dst_key_t * key[MAX_TRUSTED_KEY];
int nb_tk;
} struct_tk_list;

struct_tk_list tk_list = { {NULL, NULL, NULL, NULL, NULL}, 0};

#endif

#define DIG_MAX_ADDRESSES 20

/*
* Apply and clear locks at the event level in global task.
* Can I get rid of these using shutdown events? XXX
*/
#define LOCK_LOOKUP {
dbg("lock_lookup %s:%d", __FILE__, __LINE__);
check_result(isc_mutex_lock((&lookup_lock)), "isc_mutex_lock");
dbg("success");
}
#define UNLOCK_LOOKUP {
dbg("unlock_lookup %s:%d", __FILE__, __LINE__);
check_result(isc_mutex_unlock((&lookup_lock)),
"isc_mutex_unlock");
}

/* dynamic callbacks */

#ifdef DIG_SIGCHASE
isc_result_t (*dighost_printrdataset)(dns_name_t *owner_name, dns_rdataset_t *rdataset,
isc_buffer_t *target);
#endif

isc_result_t (*dighost_printmessage)(dig_query_t *query, dns_message_t *msg,
bool headers);

void (*dighost_received)(unsigned int bytes, isc_sockaddr_t *from, dig_query_t *query);

void (*dighost_trying)(char *frm, dig_lookup_t *lookup);

void (*dighost_shutdown)(void);
/* forward declarations */

static void
cancel_lookup(dig_lookup_t *lookup);

static void
recv_done(isc_task_t *task, isc_event_t *event);

static void
send_udp(dig_query_t *query);

static void
connect_timeout(isc_task_t *task, isc_event_t *event);

static void
launch_next_query(dig_query_t *query, bool include_question);

static void
check_next_lookup(dig_lookup_t *lookup);

static bool
next_origin(dig_lookup_t *oldlookup);

static void *
mem_alloc(void *arg, size_t size) {
    return (isc_mem_get(arg, size));
}

static void
mem_free(void *arg, void *mem, size_t size) {
    isc_mem_put(arg, mem, size);
}

char *
next_token(char **stringp, const char *delim) {
    char *res;

    do {
        res = strsep(stringp, delim);
        if (res == NULL)
            break;
    } while (*res == '\0');
    return (res);
}

static int
count_dots(char *string) {
char *s;
int i = 0;

s = string;
while (*s != '\0') {
if (*s == '.')
i++;
s++;
}
return (i);

static void
hex_dump(isc_buffer_t *b) {
unsigned int len, i;
isc_region_t r;

isc_buffer_usedregion(b, &r);

printf("%u bytes\n", r.length);
for (len = 0; len < r.length; len++) {
printf("%02x ", r.base[len]);
if (len % 16 == 15) {
fputs(" ", stdout);
for (i = len - 15; i <= len; i++) {
if (r.base[i] >= '!' && r.base[i] <= '}')
putchar(r.base[i]);
else
putchar('.');
}
printf("\n");
}

if (len % 16 != 0) {
for (i = len; (i % 16) != 0; i++)
fputs(" ", stdout);
fputs(" ", stdout);
for (i = ((len>>4)<<4); i < len; i++) {
if (r.base[i] >= '!' && r.base[i] <= '}')
putchar(r.base[i]);
else
putchar('.');
}
printf("\n");
}

/ *
* Append 'len' bytes of 'text' at '*p', failing with
* ISC_R_NOSPACE if that would advance p past 'end'.
*/
static isc_result_t
append(const char *text, size_t len, char **p, char *end) {
if (*p + len > end)
return (ISC_R_NOSPACE);
memmove(*p, text, len);
*p += len;
return (ISC_R_SUCCESS);
}
static isc_result_t
reverse_octets(const char *in, char **p, char *end) {
const char *dot = strchr(in, '.');
size_t len;
if (dot != NULL) {
isc_result_t result;
result = reverse_octets(dot + 1, p, end);
if (result != ISC_R_SUCCESS)
return (result);
result = append(".", 1, p, end);
if (result != ISC_R_SUCCESS)
return (result);
len = (int) (dot - in);
} else {
len = (int) strlen(in);
}
return (append(in, len, p, end));
}
isc_result_t
get_reverse(char *reverse, size_t len, char *value, bool ip6_int,
bool strict)
{
int r;
isc_result_t result;
isc_netaddr_t addr;
addr.family = AF_INET6;
r = inet_pton(AF_INET6, value, &addr.type.in6);
if (r > 0) {
/* This is a valid IPv6 address. */
dns_fixedname_t fname;
dns_name_t *name;
unsigned int options = 0;
if (ip6_int)

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options |= DNS_BYADDRLOPT_IPV6INT;
name = dns_fixedname_initname(&fname);
result = dns_byaddr_createptrname2(&addr, options, name);
if (result != ISC_R_SUCCESS)
    return (result);
dns_name_format(name, reverse, (unsigned int)len);
return (ISC_R_SUCCESS);
} else {
    /*
     * Not a valid IPv6 address. Assume IPv4.
     * If 'strict' is not set, construct the
     * in-addr.arpa name by blindly reversing
     * octets whether or not they look like integers,
     * so that this can be used for RFC2317 names
     * and such.
     */
    char *p = reverse;
    char *end = reverse + len;
    if (strict && inet_pton(AF_INET, value, &addr.type.in) != 1)
        return (DNS_R_BADDOTTEDQUAD);
    result = reverse_octets(value, &p, end);
    if (result != ISC_R_SUCCESS)
        return (result);
    /* Append .in-addr.arpa and a terminating NUL. */
    result = append(".in-addr.arpa.", 15, &p, end);
    if (result != ISC_R_SUCCESS)
        return (result);
    return (ISC_R_SUCCESS);
}

void
fatal(const char *format, ...) {
    va_list args;

    fflush(stdout);
    fprintf(stderr, "%s: ", progname);
    va_start(args, format);
    vfprintf(stderr, format, args);
    va_end(args);
    fprintf(stderr, "\n");
    if (exitcode < 10)
        exitcode = 10;
    if (fatalexit != 0)
        exitcode = fatalexit;
    exit(exitcode);
}
void
dbg(const char *format, ...) {
va_list args;
isc_time_t t;

if (debugging) {
fflush(stdout);
if (debugtiming) {
TIME_NOW(&t);
fprintf(stderr, "%u.%06u: %s", isc_time_seconds(&t),
isc_time_nanoseconds(&t) / 1000);
}
va_start(args, format);
vfprintf(stderr, format, args);
va_end(args);
fprintf(stderr, "n");
}
}

void
crlg(isc_result_t result, const char *msg) {
if (result != ISC_R_SUCCESS) {
fatal("%s: %s", msg, isc_result_totext(result));
}
}

/*%
 * Create a server structure, which is part of the lookup structure.
 * This is little more than a linked list of servers to query in hopes
 * of finding the answer the user is looking for
 */
dig_server_t *
mk_server(const char *servname, const char *userarg) {
dig_server_t *srv;

REQUIRE(servname != NULL);

dbg("mk_server(%s)", servname);
srv = isc_mem_allocate(mctx, sizeof(struct dig_server));
if (srv == NULL)
fatal("memory allocation failure in %s:%d",
__FILE__, __LINE__);
strlcpy(srv->servername, servname, MXNAME);
strlcpy(srv->userarg, userarg, MXNAME);
ISC_LINK_INIT(srv, link);
return (srv);
}
static int
addr2af(int lwresaddrtype)
{
    int af = 0;

    switch (lwresaddrtype) {
    case LWRES_ADDRTYPE_V4:
        af = AF_INET;
        break;
    case LWRES_ADDRTYPE_V6:
        af = AF_INET6;
        break;
    }

    return (af);
}

static void
copy_server_list(lwres_conf_t *confdata, dig_serverlist_t *dest) {
    dig_server_t *newsrv;
    sizeof("%4000000000")];
    int af;
    int i;

    debug("copy_server_list()");
    for (i = 0; i < confdata->nsnext; i++) {
        af = addr2af(confdata->nameservers[i].family);

        if (af == AF_INET && !have_ipv4) continue;
        if (af == AF_INET6 && !have_ipv6) continue;

        lwres_net_ntop(af, confdata->nameservers[i].address,
        tmp, sizeof(tmp));
        if (af == AF_INET6 && confdata->nameservers[i].zone != 0) {
            char buf[sizeof("%4000000000")];
            snprintf(buf, sizeof(buf), "%%%u",
            confdata->nameservers[i].zone);
            strlcat(tmp, buf, sizeof(tmp));
        }
        newsrv = make_server(tmp, tmp);
ISC_LINK_INIT(newsrv, link);
ISC_LIST_ENQUEUE(*dest, newsrv, link);
}
}

void flush_server_list(void) {
  dig_server_t *s, *ps;

dbg("flush_server_list()");
s = ISC_LIST_HEAD(server_list);
while (s != NULL) {
  ps = s;
  s = ISC_LIST_NEXT(s, link);
  ISC_LIST_DEQUEUE(server_list, ps, link);
  isc_mem_free(mctx, ps);
}
}

void set_nameserver(char *opt) {
  isc_result_t result;
  isc_sockaddr_t sockaddrs[DIG_MAX_ADDRESSES];
  isc_netaddr_t netaddr;
  int count, i;
  dig_server_t *srv;
  char tmp[ISC_NETADDR_FORMATSIZE];

  if (opt == NULL)
    return;

  result = bind9_getaddresses(opt, 0, sockaddrs,
                              DIG_MAX_ADDRESSES, &count);
  if (result != ISC_R_SUCCESS)
    fatal("couldn't get address for '%s': %s",
          opt, isc_result_totext(result));

  flush_server_list();

  for (i = 0; i < count; i++) {
    isc_netaddr_fromsockaddr(&netaddr, &sockaddrs[i]);
    isc_netaddr_format(&netaddr, tmp, sizeof(tmp));
    srv = make_server(tmp, opt);
    if (srv == NULL)
      fatal("memory allocation failure");
    ISC_LIST_APPEND(server_list, srv, link);
  }
}
static isc_result_t
add_nameserver(lwres_conf_t *confdata, const char *addr, int af) {

  int i = confdata->nsnext;

  if (confdata->nsnext >= LWRES_CONFMAXNAMESERVERS)
    return (ISC_R_FAILURE);

  switch (af) {
    case AF_INET:
      confdata->nameservers[i].family = LWRES_ADDRTYPE_V4;
      confdata->nameservers[i].length = NS_INADDRSZ;
      break;
    case AF_INET6:
      confdata->nameservers[i].family = LWRES_ADDRTYPE_V6;
      confdata->nameservers[i].length = NS_IN6ADDRSZ;
      break;
    default:
      return (ISC_R_FAILURE);
  }

  if (lwres_net_pton(af, addr, &confdata->nameservers[i].address) == 1) {
    confdata->nsnext++;
    return (ISC_R_SUCCESS);
  }
  return (ISC_R_FAILURE);
}

/*%
 * Produce a cloned server list.  The dest list must have already had
 * ISC_LIST_INIT applied.
 */
void
clone_server_list(dig_serverlist_t src, dig_serverlist_t *dest) {
  dig_server_t *srv, *newsrv;

  debug("clone_server_list()");
  srv = ISC_LIST_HEAD(src);
  while (srv != NULL) {
    newsrv = make_server(srv->servername, srv->userarg);
    ISC_LINK_INIT(newsrv, link);
    ISC_LIST_ENQUEUE(*dest, newsrv, link);
    srv = ISC_LIST_NEXT(srv, link);
  }
}

/*/
* Create an empty lookup structure, which holds all the information needed
* to get an answer to a user's question. This structure contains two
* linked lists: the server list (servers to query) and the query list
* (outstanding queries which have been made to the listed servers).
*/

```c
dig_lookup_t *
make_empty_lookup(void) {
  dig_lookup_t *looknew;

dbg("make_empty_lookup()");

INSIST(!free_now);

looknew = isc_mem_allocate(mctx, sizeof(struct dig_lookup));
if (looknew == NULL)
fatal("memory allocation failure in %s:%d",
    __FILE__, __LINE__);
looknew->pending = true;
looknew->textname[0] = 0;
looknew->cmdline[0] = 0;
looknew->rdtype = dns_rdatatype_a;
looknew->qrdtype = dns_rdatatype_a;
looknew->rdclass = dns_rdataclass_in;
looknew->rdtypeset = false;
looknew->rdclassset = false;
looknew->sendspace = NULL;
looknew->sendmsg = NULL;
looknew->name = NULL;
looknew->oname = NULL;
looknew->xfr_q = NULL;
looknew->current_query = NULL;
looknew->doing_xfr = false;
looknew->ixfr_serial = 0;
looknew->trace = false;
looknew->trace_root = false;
looknew->identify = false;
looknew->identify_previous_line = false;
looknew->ignore = false;
looknew->servfail_stops = true;
looknew->besteffort = true;
looknew->dnssec = false;
looknew->ednsflags = 0;
looknew->opcode = dns_opcode_query;
looknew->expire = false;
looknew->nsid = false;
looknew->header_only = false;
looknew->sendcookie = false;
looknew->seenbadcookie = false;
```
looknew->badcookie = true;
#ifdef WITH_IDN_SUPPORT
looknew->idnin = isatty(1)?(getenv("IDN_DISABLE") == NULL):false;
#else
looknew->idnin = false;
#endif
#ifdef WITH_IDN_OUT_SUPPORT
looknew->idnout = looknew->idnin;
#else
looknew->idnout = false;
#endif
#ifdef DIG_SIGCHASE
looknew->sigchase = false;
#elif DIG_SIGCHASE_TD
looknew->do_topdown = false;
looknew->trace_root_sigchase = false;
looknew->rdtype_sigchaseset = false;
looknew->rdtype_sigchase = dns_rdatatype_any;
looknew->qrdtype_sigchase = dns_rdatatype_any;
looknew->rdclass_sigchase = dns_rdataclass_in;
looknew->rdclass_sigchaseset = false;
#endif
#endif
looknew->udpsize = 0;
looknew->edns = -1;
looknew->recurse = true;
looknew->aannonly = false;
looknew->adflag = false;
looknew->cdflag = false;
looknew->print_unknown_format = false;
looknew->zflag = false;
looknew->ns_search_only = false;
looknew->origin = NULL;
looknew->tsigctx = NULL;
looknew->querysig = NULL;
looknew->retries = tries;
looknew->nsfound = 0;
looknew->tcp_mode = false;
looknew->tcp_mode_set = false;
looknew->ip6_int = false;
looknew->comments = true;
looknew->stats = true;
looknew->section_question = true;
looknew->section_answer = true;
looknew->section_authority = true;
looknew->section_additional = true;
looknew->new_search = false;
looknew->done_as_is = false;
looknew->need_search = false;
looknew->ecs_addr = NULL;
looknew->cookie = NULL;
looknew->ednsopts = NULL;
looknew->ednsoptscnt = 0;
looknew->ednsneg = true;
looknew->mapped = true;
looknew->dscp = -1;
looknew->eoferr = 0;
dns_fixedname_init(&looknew->fdomain);
ISC_LINK_INIT(looknew, link);
ISC_LIST_INIT(looknew->q);
ISC_LIST_INIT(looknew->connecting);
ISC_LIST_INIT(looknew->my_server_list);
return (looknew);
}

#define EDNSOPT_OPTIONS 100U

static void cloneopts(dig_lookup_t *looknew, dig_lookup_t *lookold) {
    size_t len = sizeof(looknew->ednsopts[0]) * EDNSOPT_OPTIONS;
    size_t i;
    looknew->ednsopts = isc_mem_allocate(mctx, len);
    if (looknew->ednsopts == NULL)
fatal("out of memory");
    for (i = 0; i < EDNSOPT_OPTIONS; i++) {
        looknew->ednsopts[i].code = 0;
        looknew->ednsopts[i].length = 0;
        looknew->ednsopts[i].value = NULL;
    }
    looknew->ednsoptscnt = 0;
    if (lookold == NULL || lookold->ednsopts == NULL)
return;

    for (i = 0; i < lookold->ednsoptscnt; i++) {
        len = lookold->ednsopts[i].length;
        if (len != 0) {
            INSIST(lookold->ednsopts[i].value != NULL);
            looknew->ednsopts[i].value =
              isc_mem_allocate(mctx, len);
            if (looknew->ednsopts[i].value == NULL)
fatal("out of memory");
            memmove(looknew->ednsopts[i].value,
                lookold->ednsopts[i].value, len);
        }
        looknew->ednsopts[i].code = lookold->ednsopts[i].code;
        looknew->ednsopts[i].length = len;
    }
}
/*
 * Clone a lookup, perhaps copying the server list. This does not clone
 * the query list, since it will be regenerated by the setup_lookup()
 * function, nor does it queue up the new lookup for processing.
 * Caution: If you don't clone the servers, you MUST clone the server
 * list separately from somewhere else, or construct it by hand.
 */

dig_lookup_t *
clone_lookup(dig_lookup_t *lookold, bool servers) {

dig_lookup_t *looknew;

debug("clone_lookup()");

INSIST(!free_now);

looknew = make_empty_lookup();
INSIST(looknew != NULL);
strlcpy(looknew->textname, lookold->textname, MXNAME);
#if DIG_SIGCHASE_TD
strlcpy(looknew->textnamesigchase, lookold->textnamesigchase, MXNAME);
#endif
strlcpy(looknew->cmdline, lookold->cmdline, MXNAME);
looknew->textname[MXNAME-1] = 0;
looknew->rdtype = lookold->rdtype;
looknew->qrdtype = lookold->qrdtype;
looknew->rdclass = lookold->rdclass;
looknew->rdtypeset = lookold->rdtypeset;
looknew->rdclassset = lookold->rdclassset;
looknew->doing_xfr = lookold->doing_xfr;
looknew->ixfr_serial = lookold->ixfr_serial;
looknew->trace = lookold->trace;
looknew->trace_root = lookold->trace_root;
looknew->identify = lookold->identify;
looknew->identify_previous_line = lookold->identify_previous_line;
looknew->ignore = lookold->ignore;
looknew->servfail_stops = lookold->servfail_stops;
looknew->besteffort = lookold->besteffort;
looknew->dnssec = lookold->dnssec;
looknew->ednsflags = lookold->ednsflags;
looknew->opcode = lookold->opcode;
looknew->expire = lookold->expire;
looknew->nsid = lookold->nsid;
looknew->header_only = lookold->header_only;
looknew->sendcookie = lookold->sendcookie;
looknew->seenbadcookie = lookold->seenbadcookie;
looknew->badcookie = lookold->badcookie;
looknew->cookie = lookold->cookie;
if (lookold->ednsopts != NULL) {
    cloneopts(looknew, lookold);
} else {
    looknew->ednsopts = NULL;
    looknew->ednsoptscnt = 0;
}
looknew->ednsneg = lookold->ednsneg;
looknew->mapped = lookold->mapped;
looknew->idnin = lookold->idnin;
looknew->idnout = lookold->idnout;
#ifdef DIG_SIGCHASE
looknew->sigchase = lookold->sigchase;
#endif
#endif
looknew->do_topdown = lookold->do_topdown;
looknew->trace_root_sigchase = lookold->trace_root_sigchase;
looknew->rdtype_sigchaseset = lookold->rdtype_sigchaseset;
looknew->rdtype_sigchase = lookold->rdtype_sigchase;
looknew->qrdtype_sigchase = lookold->qrdtype_sigchase;
looknew->rdclass_sigchase = lookold->rdclass_sigchase;
looknew->rdclass_sigchaseset = lookold->rdclass_sigchaseset;
looknew->udpsize = lookold->udpsize;
looknew->edns = lookold->edns;
looknew->recurse = lookold->recurse;
looknew->aaonly = lookold->aaonly;
looknew->adflag = lookold->adflag;
looknew->cdflag = lookold->cdflag;
looknew->print_unknown_format = lookold->print_unknown_format;
looknew->zflag = lookold->zflag;
looknew->ns_search_only = lookold->ns_search_only;
looknew->tcp_mode = lookold->tcp_mode;
looknew->tcp_mode_set = lookold->tcp_mode_set;
looknew->comments = lookold->comments;
looknew->stats = lookold->stats;
looknew->section_question = lookold->section_question;
looknew->section_answer = lookold->section_answer;
looknew->section_authority = lookold->section_authority;
looknew->section_additional = lookold->section_additional;
looknew->origin = lookold->origin;
looknew->retries = lookold->retries;
looknew->tsigctx = NULL;
looknew->need_search = lookold->need_search;
looknew->done_as_is = lookold->done_as_is;
looknew->dscp = lookold->dscp;
looknew->eoferr = lookold->eoferr;

if (lookold->ecs_addr != NULL) {
    size_t len = sizeof(isc_sockaddr_t);
    looknew->ecs_addr = isc_mem_allocate(mctx, len);
    if (looknew->ecs_addr == NULL)
        fatal("out of memory");
    memmove(looknew->ecs_addr, lookold->ecs_addr, len);
}

dns_name_copy(dns_fixedname_name(&lookold->fdomain),
              dns_fixedname_name(&looknew->fdomain), NULL);

if (servers)
    clone_server_list(lookold->my_server_list,
                     &looknew->my_server_list);
return (looknew);
}

/*%
 * Requeue a lookup for further processing, perhaps copying the server
 * list. The new lookup structure is returned to the caller, and is
 * queued for processing. If servers are not cloned in the requeue, they
 * must be added before allowing the current event to complete, since the
 * completion of the event may result in the next entry on the lookup
 * queue getting run.
 */

dig_lookup_t *
requeue_lookup(dig_lookup_t *lookold, bool servers) {
    dig_lookup_t *looknew;

ddebug("requeue_lookup()");

    lookup_counter++;
    if (lookup_counter > LOOKUP_LIMIT)
        fatal("too many lookups");

    looknew = clone_lookup(lookold, servers);
    INSIST(looknew != NULL);

    debug("before insertion, init@%p -> %p, new@%p -> %p",
         lookold, lookold->link.next, looknew, looknew->link.next);
    ISC_LIST_PREPEND(lookup_list, looknew, link);
    debug("after insertion, init -> %p, new = %p, new -> %p",
         lookold, looknew, looknew->link.next);
    return (looknew);
}
void
setup_text_key(void) {
    isc_result_t result;
    dns_name_t keyname;
    isc_buffer_t secretbuf;
    unsigned int secretsize;
    unsigned char *secretstore;

deprecated("setup_text_key()");
result = isc_buffer_allocate(mctx, &namebuf, MXNAME);
check_result(result, "isc_buffer_allocate");
dns_name_init(&keyname, NULL);
check_result(result, "dns_name_init");
isc_buffer_putstr(namebuf, keynametext);
secretsize = (unsigned int) strlen(keysecret) * 3 / 4;
secretstore = isc_mem_allocate(mctx, secretsize);
if (secretstore == NULL)
fatal("memory allocation failure in %s:%d",
    __FILE__, __LINE__);        
isc_buffer_init(&secretbuf, secretstore, secretsize);
result = isc_base64_decodestring(keysecret, &secretbuf);
if (result != ISC_R_SUCCESS)
goto failure;
secretsize = isc_buffer_usedlength(&secretbuf);

if (hmacname == NULL) {
    result = DST_R_UNSUPPORTEDALG;
    goto failure;
}
result = dns_name_fromtext(&keyname, namebuf, dns_rootname, 0, namebuf);
if (result != ISC_R_SUCCESS)
goto failure;

result = dns_tsigkey_create(&keyname, hmacname, secretstore,
    (int)secretsize, false, NULL, 0, 0,
    mctx, NULL, &tsigkey);
failure:
if (result != ISC_R_SUCCESS)
printf(";; Couldn't create key %s: %s\n", keynametext, isc_result_totext(result));
else
dst_key_setbits(tsigkey->key, digestbits);

isc_mem_free(mctx, secretstore);
dns_name_invalidate(&keyname);
isc_buffer_free(&namebuf);
}

static isc_result_t
parse_uint_helper(uint32_t *uip, const char *value, uint32_t max,
const char *desc, int base) {
    uint32_t n;
    isc_result_t result = isc_parse_uint32(&n, value, base);
    if (result == ISC_R_SUCCESS && n > max)
        result = ISC_R_RANGE;
    if (result != ISC_R_SUCCESS) {
        printf("invalid %s '%s': %s\n", desc, value, isc_result_totext(result));
        return (result);
    }
    *uip = n;
    return (ISC_R_SUCCESS);
}

isc_result_t
parse_uint(uint32_t *uip, const char *value, uint32_t max,
const char *desc) {
    return (parse_uint_helper(uip, value, max, desc, 10));
}

isc_result_t
parse_xint(uint32_t *uip, const char *value, uint32_t max,
const char *desc) {
    return (parse_uint_helper(uip, value, max, desc, 0));
}

static uint32_t
parse_bits(char *arg, const char *desc, uint32_t max) {
    isc_result_t result;
    uint32_t tmp;
    result = parse_uint(&tmp, arg, max, desc);
    if (result != ISC_R_SUCCESS)
        fatal("couldn't parse digest bits");
    tmp = (tmp + 7) & ~0x7U;
    return (tmp);
}

isc_result_t
parse_netprefix(isc_sockaddr_t **sap, const char *value) {
    isc_result_t result = ISC_R_SUCCESS;
    isc_sockaddr_t *sa = NULL;
    struct in_addr in4;

struct in6_addr in6;
uint32_t prefix_length = 0xffffffff;
char *slash = NULL;
bool parsed = false;
bool prefix_parsed = false;

REQUIRE(sap != NULL && *sap == NULL);

if (strlcpy(buf, value, sizeof(buf)) >= sizeof(buf))
fatal("invalid prefix '%s\n", value);

sa = isc_mem_allocate(mctx, sizeof(*sa));
if (sa == NULL)
fatal("out of memory");
memset(sa, 0, sizeof(*sa));

if (strcmp(buf, "0") == 0) {
  sa->type.sa.sa_family = AF_UNSPEC;
prefix_length = 0;
goto done;
}

slash = strchr(buf, '/');
if (slash != NULL) {
  *slash = '\0';
  result = isc_parse_uint32(&prefix_length, slash + 1, 10);
  if (result != ISC_R_SUCCESS) {
    fatal("invalid prefix length in '%s': %s\n",
         value, isc_result_totext(result));
  }
  prefix_parsed = true;
}

if (inet_pton(AF_INET6, buf, &in6) == 1) {
parsed = true;
isc_sockaddr_fromin6(sa, &in6, 0);
if (prefix_length > 128)
prefix_length = 128;
} else if (inet_pton(AF_INET, buf, &in4) == 1) {
parsed = true;
isc_sockaddr_fromin(sa, &in4, 0);
if (prefix_length > 32)
prefix_length = 32;
} else if (prefix_parsed) {
  int i;
  for (i = 0; i < 3 && strlen(buf) < sizeof(buf) - 2; i++) {
strlcat(buf, ".0", sizeof(buf));
if (inet_pton(AF_INET, buf, &in4) == 1) {
    parsed = true;
    isc_sockaddr_fromin(sa, &in4, 0);
    break;
}
}

if (prefix_length > 32)
prefix_length = 32;
}

if (!parsed)
fatal("invalid address '%s'", value);

done:
    sa->length = prefix_length;
    *sap = sa;

    return (ISC_R_SUCCESS);
}

/*
* Parse HMAC algorithm specification
*/

void
parse_hmac(const char *hmac) {
    char buf[20];
    size_t len;

    REQUIRE(hmac != NULL);
    len = strlen(hmac);
    if (len >= sizeof(buf))
        fatal("unknown key type '%.*s'", (int)len, hmac);
    strlcpy(buf, hmac, sizeof(buf));
    digestbits = 0;

#ifndef PK11_MD5_DISABLE
    if (strcasecmp(buf, "hmac-md5") == 0) {
        hmacname = DNS_TSIG_HMACMD5_NAME;
    } else if (strncasecmp(buf, "hmac-md5-", 9) == 0) {
        hmacname = DNS_TSIG_HMACMD5_NAME;
        digestbits = parse_bits(&buf[9], "digest-bits [0..128]", 128);
    } else
#endif
    if (strcasecmp(buf, "hmac-sha1") == 0) {
hmacname = DNS_TSIG_HMACSHA1_NAME;
digestbits = 0;
} else if (strncasecmp(buf, "hmac-sha1-", 10) == 0) {
  hmacname = DNS_TSIG_HMACSHA1_NAME;
digestbits = parse_bits(&buf[10], "digest-bits [0..160]", 160);
} else if (strcasecmp(buf, "hmac-sha224") == 0) {
  hmacname = DNS_TSIG_HMACSHA224_NAME;
  digestbits = parse_bits(&buf[12], "digest-bits [0..224]", 224);
} else if (strcasecmp(buf, "hmac-sha256") == 0) {
  hmacname = DNS_TSIG_HMACSHA256_NAME;
  digestbits = parse_bits(&buf[12], "digest-bits [0..256]", 256);
} else if (strcasecmp(buf, "hmac-sha384") == 0) {
  hmacname = DNS_TSIG_HMACSHA384_NAME;
  digestbits = parse_bits(&buf[12], "digest-bits [0..384]", 384);
} else if (strcasecmp(buf, "hmac-sha512") == 0) {
  hmacname = DNS_TSIG_HMACSHA512_NAME;
  digestbits = parse_bits(&buf[12], "digest-bits [0..512]", 512);
} else {
  fprintf(stderr, ";; Warning, ignoring "
    "invalid TSIG algorithm %s\n", buf);
}

/*
 * Get a key from a named.conf format keyfile
 */
static isc_result_t
read_confkey(void) {
  cfg_parser_t *ptctx = NULL;
  cfg_obj_t *file = NULL;
  const cfg_obj_t *keyobj = NULL;
  const cfg_obj_t *secretobj = NULL;
  const char *keyname;
  const char *secretstr;
  const char *algorithm;
  isc_result_t result;

  if (! isc_file_exists(keyfile))
    return (ISC_R_FILENOTFOUND);
result = cfg_parser_create(mctx, NULL, &pctx);
if (result != ISC_R_SUCCESS)
goto cleanup;

result = cfg_parse_file(pctx, keyfile, &cfg_type_sessionkey, &file);
if (result != ISC_R_SUCCESS)
goto cleanup;

result = cfg_map_get(file, "key", &keyobj);
if (result != ISC_R_SUCCESS)
goto cleanup;

(void) cfg_map_get(keyobj, "secret", &secretobj);
(void) cfg_map_get(keyobj, "algorithm", &algorithmobj);
if (secretobj == NULL || algorithmobj == NULL)
fatal("key must have algorithm and secret");

keyname = cfg_obj_asstring(cfg_map_getname(keyobj));
secretstr = cfg_obj_asstring(secretobj);
algorithmm = cfg_obj_asstring(algorithmobj);

strlcpy(keynametext, keyname, sizeof(keynametext));
strlcpy(keysecret, secretstr, sizeof(keysecret));
parse_hmac(algorithm);
setup_text_key();

cleanup:
if (pctx != NULL) {
    if (file != NULL)
        cfg_obj_destroy(pctx, &file);
    cfg_parser_destroy(&pctx);
}
return (result);
}

void
setup_file_key(void) {
    isc_result_t result;
    dst_key_t *dstkey = NULL;

dst_key_t *dstkey = NULL;

debug("setup_file_key()");

/* Try reading the key from a K* pair */
result = dst_key_fromnamedfile(keyfile, NULL,
    DST_TYPE_PRIVATE | DST_TYPE_KEY, mctx,
/* If that didn't work, try reading it as a session.key keyfile */
if (result != ISC_R_SUCCESS) {
    result = read_confkey();
    if (result == ISC_R_SUCCESS)
        return;
}

if (result != ISC_R_SUCCESS) {
    fprintf(stderr, "Couldn't read key from %s: %s\n", keyfile, isc_result_totext(result));
    goto failure;
}

switch (dst_key_alg(dstkey)) {
    #ifndef PK11_MD5_DISABLE
    case DST_ALG_HMACMD5:
        hmacname = DNS_TSIG_HMACMD5_NAME;
        break;
    #endif
    case DST_ALG_HMACSHA1:
        hmacname = DNS_TSIG_HMACSHA1_NAME;
        break;
    case DST_ALG_HMACSHA224:
        hmacname = DNS_TSIG_HMACSHA224_NAME;
        break;
    case DST_ALG_HMACSHA256:
        hmacname = DNS_TSIG_HMACSHA256_NAME;
        break;
    case DST_ALG_HMACSHA384:
        hmacname = DNS_TSIG_HMACSHA384_NAME;
        break;
    case DST_ALG_HMACSHA512:
        hmacname = DNS_TSIG_HMACSHA512_NAME;
        break;
    default:
        printf(";; Couldn't create key %s: bad algorithm\n", keynametext);
        goto failure;
    }

    result = dns_tsigkey_createfromkey(dst_key_name(dstkey), hmacname,
        dstkey, false, NULL, 0, 0,
        mctx, NULL, &tsigkey);
    if (result != ISC_R_SUCCESS) {
        printf(";; Couldn't create key %s: %s\n", keynametext, isc_result_totext(result));
        goto failure;
    }
static dig_searchlist_t *
make_searchlist_entry(char *domain) {
    dig_searchlist_t *search;
    search = isc_mem_allocate(mctx, sizeof(*search));
    if (search == NULL)
        fatal("memory allocation failure in %s:%d",
             __FILE__, __LINE__);
    strlcpy(search->origin, domain, MXNAME);
    search->origin[MXNAME-1] = 0;
    ISC_LINK_INIT(search, link);
    return (search);
}

static void
clear_searchlist(void) {
    dig_searchlist_t *search;
    while ((search = ISC_LIST_HEAD(search_list)) != NULL) {
        ISC_LIST_UNLINK(search_list, search, link);
        isc_mem_free(mctx, search);
    }
}

static void
create_search_list(lwres_conf_t *confdata) {
    int i;
    dig_searchlist_t *search;

    debug("create_search_list()");
    clear_searchlist();

    for (i = 0; i < confdata->searchnxt; i++) {
        search = make_searchlist_entry(confdata->search[i]);
        ISC_LIST_APPEND(search_list, search, link);
    }
}

/*%
 * Setup the system as a whole, reading key information and resolv.conf
 * settings.
 */
void
setup_system(bool ipv4only, bool ipv6only) {
}

}
dig_searchlist_t *domain = NULL;
lwres_result_t lwresult;
unsigned int lwresflags;
isc_result_t result;

debug("setup_system()");

if (ipv4only) {
    if (have_ipv4) {
        isc_net_disableipv6();
        have_ipv6 = false;
    } else {
        fatal("can't find IPv4 networking");
    }
}

if (ipv6only) {
    if (have_ipv6) {
        isc_net_disableipv4();
        have_ipv4 = false;
    } else {
        fatal("can't find IPv6 networking");
    }
}

lwresflags = LWRES_CONTEXT_SERVERMODE;
if (have_ipv4)
    lwresflags |= LWRES_CONTEXT_USEIPV4;
if (have_ipv6)
    lwresflags |= LWRES_CONTEXT_USEIPV6;

lwresult = lwres_context_create(&lwctx, mctx, mem_alloc, mem_free,
    lwresflags);
if (lwresult != LWRES_R_SUCCESS)
    fatal("lwres_context_create failed");

lwresult = lwres_conf_parse(lwctx, RESOLV_CONF);
if (lwresult != LWRES_R_SUCCESS && lwresult != LWRES_R_NOTFOUND)
    fatal("parse of %s failed", RESOLV_CONF);

lwconf = lwres_conf_get(lwctx);

/* Make the search list */
if (lwconf->searchnxt > 0)
    create_search_list(lwconf);
else { /* No search list. Use the domain name if any */
    if (lwconf->domainname != NULL) {
        domain = make_searchlist_entry(lwconf->domainname);
ISC_LIST_APPEND(search_list, domain, link);
domain = NULL;
}

if (lwconf->resdebug) {
verbose = true;
dbg("verbose is on");
}
if (ndots == -1) {
ndots = lwconf->ndots;
dbg("ndots is %d., ndots");
}
if (lwconf->attempts) {
tries = lwconf->attempts + 1;
if (tries < 2)
tries = 2;
dbg("tries is %d., tries");
}
if (lwconf->timeout) {
timeout = lwconf->timeout;
dbg("timeout is %d., timeout");
}

/* If user doesn't specify server use nameservers from resolv.conf. */
if (ISC_LIST_EMPTY(server_list))
copy_server_list(lwconf, &server_list);

/* If we don't find a nameserver fall back to localhost */
if (ISC_LIST_EMPTY(server_list)) {
if (have_ipv4) {
lwresult = add_nameserver(lwconf, "127.0.0.1", AF_INET);
if (lwresult != ISC_R_SUCCESS)
fatal("add_nameserver failed");
}
if (have_ipv6) {
lwresult = add_nameserver(lwconf, ":1", AF_INET6);
if (lwresult != ISC_R_SUCCESS)
fatal("add_nameserver failed");
}
copy_server_list(lwconf, &server_list);
}

#ifdef HAVE_SETLOCALE
/* Set locale */
(void) setlocale(LC_ALL, ":");
#endif
#ifdef WITH_IDN_SUPPORT
idn_initialize();
#endif

#if defined WITH_IDN_OUT_SUPPORT
/* Set domain name -> text post-conversion filter. */
result = dns_name_settotextfilter(output_filter);
check_result(result, "dns_name_settotextfilter");
#endif

if (keyfile[0] != 0)
    setup_file_key();
else if (keysecret[0] != 0)
    setup_text_key();
#if defined DIG_SIGCHASE
/* Setup the list of messages for +sigchase */
ISC_LIST_INIT(chase_message_list);
ISC_LIST_INIT(chase_message_list2);
dns_name_init(&chase_name, NULL);
#if defined DIG_SIGCHASE_TD
    dns_name_init(&chase_current_name, NULL);
    dns_name_init(&chase_authority_name, NULL);
#endif
#if defined DIG_SIGCHASE_BU
    dns_name_init(&chase_signame, NULL);
#endif
#endif

result = isc_entropy_getdata(entp, cookie_secret, sizeof(cookie_secret), NULL, 0);
if (result != ISC_R_SUCCESS)
    fatal("unable to generate cookie secret");
}

/*%
* Override the search list derived from resolv.conf by 'domain'.
*/
void
set_search_domain(char *domain) {
    dig_searchlist_t *search;

    clear_searchlist();
    search = make_searchlist_entry(domain);
    ISC_LIST_APPEND(search_list, search, link);
}

/*%
* Setup the ISC and DNS libraries for use by the system.
* /

void
setup_libs(void) {
    isc_result_t result;
    isc_logconfig_t *logconfig = NULL;

    debug("setup_libs()");

#ifdef PKCS11CRYPTO
    pk11_result_register();
#endif
dns_result_register();

    result = isc_net_probeipv4();
    if (result == ISC_R_SUCCESS)
        have_ipv4 = true;

    result = isc_net_probeipv6();
    if (result == ISC_R_SUCCESS)
        have_ipv6 = true;
    if (!have_ipv6 && !have_ipv4)
        fatal("can't find either v4 or v6 networking");

    result = isc_mem_create(0, 0, &mctx);
    check_result(result, "isc_mem_create");
    isc_mem_setname(mctx, "dig", NULL);

    result = isc_log_create(mctx, &lctx, &logconfig);
    check_result(result, "isc_log_create");
    isc_log_setcontext(lctx);
    dns_log_init(lctx);
    dns_log_setcontext(lctx);
    result = isc_log_usechannel(logconfig, "default_debug", NULL, NULL);
    check_result(result, "isc_log_usechannel");
    isc_log_setdebuglevel(lctx, 0);

    result = isc_taskmgr_create(mctx, 1, 0, &taskmgr);
    check_result(result, "isc_taskmgr_create");

    result = isc_task_create(taskmgr, 0, &global_task);
    check_result(result, "isc_task_create");
    isc_task_setname(global_task, "dig", NULL);

    result = isc_timermgr_create(mctx, &timermgr);
check_result(result, "isc_timermgr_create");

result = isc_socketmgr_create(mctx, &socketmgr);
check_result(result, "isc_socketmgr_create");

result = isc_entropy_create(mctx, &entp);
check_result(result, "isc_entropy_create");

result = dst_lib_init(mctx, entp, 0);
check_result(result, "dst_lib_init");
is.dst_up = true;

result = isc_mempool_create(mctx, COMMSIZE, &commctx);
check_result(result, "isc_mempool_create");
isc_mempool_setname(commctx, "COMMPOOL");
/*
 * 6 and 2 set as reasonable parameters for 3 or 4 nameserver
 * systems.
 */
isc_mempool_setfreemax(commctx, 6);
isc_mempool_setfillcount(commctx, 2);

result = isc_mutex_init(&lookup_lock);
check_result(result, "isc_mutex_init");
}

typedef struct dig_ednsoptname {
    uint32_t code;
    const char *name;
} dig_ednsoptname_t;

dig_ednsoptname_t optnames[] = {
    { 3, "NSID" }, /* RFC 5001 */
    { 5, "DAU" }, /* RFC 6975 */
    { 6, "DHU" }, /* RFC 6975 */
    { 7, "N3U" }, /* RFC 6975 */
    { 8, "ECS" }, /* RFC 7871 */
    { 9, "EXPIRE" }, /* RFC 7314 */
    { 10, "COOKIE" }, /* RFC 7873 */
    { 11, "KEEPALIVE" }, /* RFC 7828 */
    { 12, "PADDING" }, /* RFC 7830 */
    { 12, "PAD" }, /* shorthand */
    { 13, "CHAIN" }, /* RFC 7901 */
    { 14, "KEY-TAG" }, /* RFC 8145 */
    { 16, "CLIENT-TAG" }, /* draft-bellis-dnsop-edns-tags */
    { 17, "SERVER-TAG" }, /* draft-bellis-dnsop-edns-tags */
    { 26946, "DEVICEID" }, /* Brian Hartvigsen */
};
#define N_EDNS_OPTNAMES (sizeof(optnames) / sizeof(optnames[0]))

void
save_opt(dig_lookup_t *lookup, char *code, char *value) {
    isc_result_t result;
    uint32_t num = 0;
    isc_buffer_t b;
    bool found = false;
    unsigned int i;

    if (lookup->ednsoptscnt >= EDNSOPT_OPTIONS)
        fatal("too many ednsopts");

    for (i = 0; i < N_EDNS_OPTNAMES; i++) {
        if (strcasecmp(code, optnames[i].name) == 0) {
            num = optnames[i].code;
            found = true;
            break;
        }
    }

    if (!found) {
        result = parse_uint(&num, code, 65535, "ednsopt");
        if (result != ISC_R_SUCCESS)
            fatal("bad edns code point: %s", code);
    }

    if (lookup->ednsopts == NULL) {
        cloneopts(lookup, NULL);
    }

    if (lookup->ednsopts[lookup->ednsoptscnt].value != NULL)
        isc_mem_free(mctx, lookup->ednsopts[lookup->ednsoptscnt].value);

    lookup->ednsopts[lookup->ednsoptscnt].code = num;
    lookup->ednsopts[lookup->ednsoptscnt].length = 0;
    lookup->ednsopts[lookup->ednsoptscnt].value = NULL;

    if (value != NULL) {
        char *buf;
        buf = isc_mem_allocate(mctx, strlen(value)/2 + 1);
        if (buf == NULL)
            fatal("out of memory");
        isc_buffer_init(&b, buf, (unsigned int) strlen(value)/2 + 1);
        result = isc_hex_decodestring(value, &b);
        check_result(result, "isc_hex_decodestring");
        lookup->ednsopts[lookup->ednsoptscnt].value =
isc_buffer_base(&b);
lookup->ednsopts[lookup->ednsoptscnt].length =
isc_buffer_usedlength(&b);
}

lookup->ednsoptscnt++;
}

/*@%* Add EDNS0 option record to a message. Currently, the only supported
* options are UDP buffer size, the DO bit, and EDNS options
* (e.g., NSID, COOKIE, client-subnet)
*/
static void
add_opt(dns_message_t *msg, uint16_t udpsize, uint16_t edns,
unsigned int flags, dns_ednsopt_t *opts, size_t count)
{
dns_rdataset_t *rdataset = NULL;
isc_result_t result;

dump(“add_opt()”);
result = dns_message_buildopt(msg, &rdataset, edns, udpsize, flags,
opts, count);
check_result(result, "dns_message_buildopt()");
result = dns_message_setopt(msg, rdataset);
check_result(result, "dns_message_setopt()");
}

/*@%* Add a question section to a message, asking for the specified name,
* type, and class.
*/
static void
add_question(dns_message_t *message, dns_name_t *name,
dns_rdataclass_t rdclass, dns_rdatatype_t rdtype)
{
dns_rdataset_t *rdataset;
isc_result_t result;

dump(“add_question()”);
rdataset = NULL;
result = dns_message_gettemprdataset(message, &rdataset);
check_result(result, “dns_message_gettemprdataset()”);
dns_rdataset_makequestion(rdataset, rdclass, rdtype);
ISC_LIST_APPEND(name->list, rdataset, link);
}
* Check if we're done with all the queued lookups, which is true iff
* all sockets, sends, and recvs are accounted for (counters == 0),
* and the lookup list is empty.
* If we are done, pass control back out to dighost_shutdown() (which is
* part of dig.c, host.c, or nslookup.c) to either shutdown the system as
* a whole or reseed the lookup list.
*/
static void
check_if_done(void) {
  debug("check_if_done()");
  debug("list %s", ISC_LIST_EMPTY(lookup_list) ? "empty" : "full");
  if (ISC_LIST_EMPTY(lookup_list) && current_lookup == NULL &&
      sendcount == 0) {
    INSIST(sockcount == 0);
    INSIST(recvcount == 0);
    debug("shutting down");
    dighost_shutdown();
    return;
  }
}

/*%
* Clear out a query when we're done with it. WARNING: This routine
* WILL invalidate the query pointer.
*/
static void
clear_query(dig_query_t *query) {
  dig_lookup_t *lookup;

  REQUIRE(query != NULL);
  debug("clear_query(%p)", query);

  if (query->timer != NULL)
    isc_timer_detach(&query->timer);
  lookup = query->lookup;

  if (ISC_LINK_LINKED(query, link))
    ISC_LIST_UNLINK(lookup->q, query, link);
  if (ISC_LINK_LINKED(query, clink))
    ISC_LIST_UNLINK(lookup->connecting, query, clink);
  if (ISC_LINK_LINKED(&query->recvbuf, link))
    ISC_LIST_DEQUEUE(query->recvlist, &query->recvbuf, link);
  if (ISC_LINK_LINKED(&query->lengthbuf, link))
    ISC_LIST_DEQUEUE(query->lengthlist, &query->lengthbuf, link);
}

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INSIST(query->recvspace != NULL);

if (query->sock != NULL) {
    isc_socket_detach(&query->sock);
    sockcount--;
    debug("sockcount=%d", sockcount);
}
isc_mempool_put(commctx, query->recvspace);
isc_buffer_invalidate(&query->recvbuf);
isc_buffer_invalidate(&query->lengthbuf);
if (query->waiting_senddone)
    query->pending_free = true;
else
    isc_mem_free(mctx, query);
}

/*%
 * Try and clear out a lookup if we're done with it. Return true if
 * the lookup was successfully cleared. If true is returned, the
 * lookup pointer has been invalidated.
 */
static bool
try_clear_lookup(dig_lookup_t *lookup) {
    dig_query_t *q;

    REQUIRE(lookup != NULL);

    debug("try_clear_lookup(%p)", lookup);

    if (ISC_LIST_HEAD(lookup->q) != NULL ||
        ISC_LIST_HEAD(lookup->connecting) != NULL)
    {
        if (debugging) {
            q = ISC_LIST_HEAD(lookup->q);
            while (q != NULL) {
                debug("query to %s still pending", q->servname);
                q = ISC_LIST_NEXT(q, link);
            }
        }
        q = ISC_LIST_HEAD(lookup->connecting);
        while (q != NULL) {
            debug("query to %s still connecting", q->servname);
            q = ISC_LIST_NEXT(q, clink);
        }
        q = ISC_LIST_HEAD(lookup->connecting);
        while (q != NULL) {
            debug("query to %s still connecting", q->servname);
            q = ISC_LIST_NEXT(q, clink);
        }
    }
    return (false);
/*
 * At this point, we know there are no queries on the lookup,
 * so can make it go away also.
 */
destroy_lookup(lookup);
return (true);
}

void
destroy_lookup(dig_lookup_t *lookup) {
dig_server_t *s;
void *ptr;

debug("destroy");
s = ISC_LIST_HEAD(lookup->my_server_list);
while (s != NULL) {
  debug("freeing server %p belonging to %p", s, lookup);
  ptr = s;
  s = ISC_LIST_NEXT(s, link);
  ISC_LIST_DEQUEUE(lookup->my_server_list,
                   (dig_server_t *)ptr, link);
  isc_mem_free(mctx, ptr);
}
if (lookup->sendmsg != NULL)
dns_message_destroy(&lookup->sendmsg);
if (lookup->querysig != NULL) {
  debug("freeing buffer %p", lookup->querysig);
  isc_buffer_free(&lookup->querysig);
}
if (lookup->sendspace != NULL)
isc_mempool_put(commctx, lookup->sendspace);
if (lookup->tsigctx != NULL)
dst_context_destroy(&lookup->tsigctx);
if (lookup->ecs_addr != NULL)
isc_mem_free(mctx, lookup->ecs_addr);
if (lookup->ednsopts != NULL) {
  size_t i;
  for (i = 0; i < EDNSOPT_OPTIONS; i++) {
    if (lookup->ednsopts[i].value != NULL)
      isc_mem_free(mctx, lookup->ednsopts[i].value);
  }
  isc_mem_free(mctx, lookup->ednsopts);
}
isc_mem_free(mctx, lookup);
}

/*%
 * If we can, start the next lookup in the queue running.
 * This assumes that the lookup on the head of the queue hasn't been
 * started yet. It also removes the lookup from the head of the queue,
 * setting the current_lookup pointer pointing to it.
 */
void
start_lookup(void) {
  debug("start_lookup()");
  if (cancel_now)
    return;

  /*
   * If there's a current lookup running, we really shouldn't get
   * here.
   */
  INSIST(current_lookup == NULL);

  current_lookup = ISC_LIST_HEAD(lookup_list);
  /*
   * Put the current lookup somewhere so cancel_all can find it
   */
  if (current_lookup != NULL) {
    ISC_LIST_DEQUEUE(lookup_list, current_lookup, link);
    #if DIG_SIGCHASE_TD
      if (current_lookup->do_topdown &&
          !current_lookup->rdtype_sigchaseset) {
        dst_key_t *dstkey = NULL;
        isc_buffer_t *b = NULL;
        isc_region_t r;
        isc_result_t result;
        dns_name_t query_name;
        dns_name_t *key_name;
        int i;

        result = get_trusted_key();
        if (result != ISC_R_SUCCESS) {
          printf("\n; No trusted key, "+sigchase option is disabled\n");
          current_lookup->sigchase = false;
          goto novalidation;
        }
        dns_name_init(&query_name, NULL);
        nameFromString(current_lookup->textname, &query_name);
      }
    }
  }
  nameFromString(current_lookup->textname, &query_name);
  if (cancel_now)
    return;

  /*
   * This assumes that the lookup on the head of the queue hasn't been
   * started yet. It also removes the lookup from the head of the queue,
   * setting the current_lookup pointer pointing to it.
   */
   void
start_lookup(void) {
for (i = 0; i < tk_list.nb_tk; i++) {
    key_name = dst_key_name(tk_list.key[i]);

    if (dns_name_issubdomain(query_name, key_name) == true)
        dstkey = tk_list.key[i];
    /*
     * Verify temp is really the lowest
     * WARNING
     */
    }
    if (dstkey == NULL) {
        printf("\n ;; The queried zone: ");
        dns_name_print(&query_name, stdout);
        printf(" isn't a subdomain of any Trusted Keys" \
               "; +sigchase option is disable\n");
        current_lookup->sigchase = false;
        free_name(&query_name);
        goto novalidation;
    }
    free_name(&query_name);

    current_lookup->rdtype_sigchase
        = current_lookup->rdtype;
    current_lookup->rdtype_sigchaseset
        = current_lookup->rdtypeset;
    current_lookup->rdtype = dns_rdatatype_ns;

    current_lookup->qrdtype_sigchase
        = current_lookup->qrdtype;
    current_lookup->qrdtype = dns_rdatatype_ns;

    current_lookup->rdclass_sigchase
        = current_lookup->rdclass;
    current_lookup->rdclass_sigchaseset
        = current_lookup->rdclassset;
    current_lookup->rdclass = dns_rdataclass_in;

    strlcpy(current_lookup->textnamesigchase,
            current_lookup->textname, MXNAME);
    current_lookup->trace_root_sigchase = true;

    result = isc_buffer_allocate(mctx, &b, BUFSIZE);
    check_result(result, "isc_buffer_allocate");
    result = dns_name_totext(dst_key_name(dstkey),
                             false, b);
check_result(result, "dns_name_totext");
isc_buffer_usedregion(b, &r);
r.base[r.length] = '\0';
strlcpy(current_lookup->textname, (char*)r.base, MXNAME);
isc_buffer_free(&b);

nameFromString(current_lookup->textnamesigchase,
    &chase_name);

dns_name_init(&chase_authority_name, NULL);
}
novalidation:
#endif
if (setup_lookup(current_lookup))
do_lookup(current_lookup);
else if (next_origin(current_lookup))
check_next_lookup(current_lookup);
} else {
check_if_done();
}

/*%
* If we can, clear the current lookup and start the next one running.
* This calls try_clear_lookup, so may invalidate the lookup pointer.
*/
static void
check_next_lookup(dig_lookup_t *lookup) {

INSIST(!free_now);

dbg("check_next_lookup(%p)", lookup);

if (ISC_LIST_HEAD(lookup->q) != NULL) {
    dbg("still have a worker");
    return;
}
if (try_clear_lookup(lookup)) {
    current_lookup = NULL;
    start_lookup();
}

/*%
* Create and queue a new lookup as a followup to the current lookup,
* based on the supplied message and section. This is used in trace and
* name server search modes to start a new lookup using servers from
static int followup_lookup(dns_message_t *msg, dig_query_t *query, dns_section_t section)
{
    dig_lookup_t *lookup = NULL;
    dig_server_t *srv = NULL;
    dns_rdataset_t *rdataset = NULL;
    dns_rdata_t rdata = DNS_RDATA_INIT;
    dns_name_t *name = NULL;
    isc_result_t result;
    bool success = false;
    int numLookups = 0;
    int num;
    isc_result_t lresult, addresses_result;
    char bad_namestr[DNS_NAME_FORMATSIZE];
    dns_name_t *domain;
    bool horizontal = false, bad = false;

    INSIST(!free_now);

    debug("following up %s", query->lookup->textname);

    addresses_result = ISC_R_SUCCESS;
    bad_namestr[0] = '\0';
    for (result = dns_message_firstname(msg, section);
        result == ISC_R_SUCCESS;
        result = dns_message_nextname(msg, section)) {
        name = NULL;
        dns_message_currentname(msg, section, &name);
        if (section == DNS_SECTION_AUTHORITY) {
            rdataset = NULL;
            result = dns_message_findtype(name, dns_rdatatype_soa,
                0, &rdataset);
            if (result == ISC_R_SUCCESS)
                return (0);
        }
        rdataset = NULL;
        result = dns_message_findtype(name, dns_rdatatype_ns, 0,
            &rdataset);
        if (result != ISC_R_SUCCESS)
            continue;
        debug("found NS set");

        if (query->lookup->trace && !query->lookup->trace_root) {
            dns_namereln_t namereln;

            if (query->lookup->tracer & & !query->lookup->trace_root) {
                dns_namereln_t namereln;

                /* NS records in a reply. Returns the number of followup lookups made.
*/
unsigned int nlabels;
int order;

domain = dns_fixedname_name(&query->lookup->fdomain);
namereln = dns_name_fullcompare(name, domain, &order, &nlabels);
if (namereln == dns_namereln_equal) {
if (!horizontal)
printf(";; BAD (HORIZONTAL) REFERRAL\n");
horizontal = true;
} else if (namereln != dns_namereln_subdomain) {
if (!bad)
printf(";; BAD REFERRAL\n");
bad = true;
continue;
}
}

for (result = dns_rdataset_first(rdataset);
result == ISC_R_SUCCESS;
result = dns_rdataset_next(rdataset)) {
char namestr[DNS_NAME_FORMATSIZE];
dns_rdata_ns_t ns;

if (query->lookup->trace_root &&
    query->lookup->nsfound >= MXSERV)
break;

dns_rdataset_current(rdataset, &rdata);

query->lookup->nsfound++;
result = dns_rdata_tostruct(&rdata, &ns, NULL);
check_result(result, "dns_rdata_tostruct");
dns_name_format(&ns.name, namestr, sizeof(namestr));
dns_rdata_freestruct(&ns);

/* Initialize lookup if we've not yet */
debug("found NS %s", namestr);
if (!success) {
    success = true;
    lookup_counter++;
    lookup = requeue_lookup(query->lookup, false);
    cancel_lookup(query->lookup);
    lookup->doing_xfr = false;
    if (!lookup->trace_root &&
        section == DNS_SECTION_ANSWER)
        lookup->trace = false;
else
lookup->trace = query->lookup->trace;
lookup->ns_search_only =
query->lookup->ns_search_only;
lookup->trace_root = false;
if (lookup->ns_search_only)
lookup->recurse = false;
domain = dns_fixedname_name(&lookup->fdomain);
dns_name_copy(name, domain, NULL);
}
#else
lookup->trace = query->lookup->trace;
lookup->ns_search_only =
query->lookup->ns_search_only;
lookup->trace_root = false;
if (lookup->ns_search_only)
lookup->recurse = false;
#endif
domain = dns_fixedname_name(&lookup->fdomain);
dns_name_copy(name, domain, NULL);
}
#endif
desc("adding server %s", namestr);
num = getaddresses(lookup, namestr, &result);
if (result != ISC_R_SUCCESS) {
printf("couldn't get address for '%s': %s\n",
namestr, isc_result_totext(result));
if (addresses_result == ISC_R_SUCCESS) {
addresses_result = result;
strlcpy(bad_namestr, namestr,
sizeof(bad_namestr));
}
}
numLookups += num;
dns_rdata_reset(&rdata);
}
}
}
#endif
if (numLookups == 0 && addresses_result != ISC_R_SUCCESS) {
fatal("couldn't get address for '%s': %s",
bad_namestr, isc_result_totext(result));
}
if (lookup == NULL &&
    section == DNS_SECTION_ANSWER &&
    (query->lookup->trace || query->lookup->ns_search_only))
return (followup_lookup(msg, query, DNS_SECTION_AUTHORITY));

/*
 * Randomize the order the nameserver will be tried.
 */
if (numLookups > 1) {
uint32_t i, j;
dig_serverlist_t my_server_list;
dig_server_t *next;
ISC_LIST_INIT(my_server_list);
i = numLookups;
for (srv = ISC_LIST_HEAD(lookup->my_server_list);
    srv != NULL;
    i--;
    if (i > 0)
        next = ISC_LIST_NEXT(srv);
    else
        next = NULL;
    if (next)
        srv = next;
    else
        srv = ISC_LIST_HEAD(lookup->my_server_list);

srv = ISC_LIST_HEAD(lookup->my_server_list) {
    INSIST(i > 0);
    isc_random_get(&j);
    j %= i;
    next = ISC_LIST_NEXT(srv, link);
    while (j-- > 0 && next != NULL) {
        srv = next;
        next = ISC_LIST_NEXT(srv, link);
    }
    ISC_LIST_DEQUEUE(lookup->my_server_list, srv, link);
    ISC_LIST_APPEND(my_server_list, srv, link);
    i--;
}
ISC_LIST_APPENDLIST(lookup->my_server_list,
    my_server_list, link);
}
return (numLookups);
}

/*%*/
* Create and queue a new lookup using the next origin from the search
* list, read in setup_system().
*
* Return true iff there was another searchlist entry.
*/
static bool
next_origin(dig_lookup_t *oldlookup) {
    dig_lookup_t *newlookup;
    dig_searchlist_t *search;
    dns_fixedname_t fixed;
    dns_name_t *name;
    isc_result_t result;
    INSIST(!free_now);

dbg("next_origin()");

debug("following up %s", oldlookup->textname);

if (!usesearch)
/*
* We're not using a search list, so don't even think
* about finding the next entry.
*/
    return (false);

/*
* Check for a absolute name or ndots being met.
*/
name = dns_fixedname_initname(&fixed);
result = dns_name_fromstring2(name, oldlookup->textname, NULL,
0, NULL);
if (result == ISC_R_SUCCESS &&
    (dns_name_isabsolute(name) ||
     (int)dns_name_countlabels(name) > ndots))
    return (false);

if (oldlookup->origin == NULL && !oldlookup->need_search)
  /*
  * Then we just did rootorg; there's nothing left.
  */
  return (false);
if (oldlookup->origin == NULL && oldlookup->need_search) {
    newlookup = requeue_lookup(oldlookup, true);
    newlookup->origin = ISC_LIST_HEAD(search_list);
    newlookup->need_search = false;
} else {
    search = ISC_LIST_NEXT(oldlookup->origin, link);
    if (search == NULL && oldlookup->done_as_is)
      return (false);
    newlookup = requeue_lookup(oldlookup, true);
    newlookup->origin = search;
    } else {
    cancel_lookup(oldlookup);
    return (true);
    }

static void
insert_soa(dig_lookup_t *lookup) {
  isc_result_t result;
  dns_rdata_soa_t soa;
  dns_rdata_t *rdata = NULL;
  dns_rdatalist_t *rdatalist = NULL;
  dns_rdataset_t *rdataset = NULL;
  dns_name_t *soaname = NULL;
  debug("insert_soa()");
  soa.mctx = mctx;
  soa.serial = lookup->ixfr_serial;
  soa.refresh = 0;
  soa.retry = 0;
  soa.expire = 0;
  /*% * Insert an SOA record into the sendmessage in a lookup. Used for
  * creating IXFR queries.
  */
  isc_result_t result;
  dns_rdata_soa_t soa;
  dns_rdata_t *rdata = NULL;
  dns_rdatalist_t *rdatalist = NULL;
  dns_rdataset_t *rdataset = NULL;
  dns_name_t *soaname = NULL;
  debug("insert_soa()");
  soa.mctx = mctx;
  soa.serial = lookup->ixfr_serial;
  soa.refresh = 0;
  soa.retry = 0;
  soa.expire = 0;
soa.minimum = 0;
soa.common.rdclass = lookup->rdclass;
soa.common.rdtype = dns_rdatatyp Soa;

dns_name_init(&soa.origin, NULL);
dns_name_init(&soa.contact, NULL);

dns_name_clone(dns_rootname, &soa.origin);
dns_name_clone(dns_rootname, &soa.contact);

isc_buffer_init(&lookup->rdbuf, lookup->datastore,
sizeof(lookup->datastore));

result = dns_message_gettempdata(lookup->sendmsg, &rdata);
check_result(result, "dns_message_gettempdata");

result = dns_rdata_fromstruct(rdata, lookup->rdclass,
    dns_rdatatyp Soa, &soa,
    &lookup->rdbuf);
check_result(result, "isc_rdata_fromstruct");

result = dns_message_gettempdatalist(lookup->sendmsg, &rdatalist);
check_result(result, "dns_message_gettempdatalist");

result = dns_message_gettempdataset(lookup->sendmsg, &rdataset);
check_result(result, "dns_message_gettempdataset");

dns_rdatalist_init(rdatalist);
rdatalist->type = dns_rdatatyp Soa;
rdatalist->rdclass = lookup->rdclass;
ISC_LIST_APPEND(rdatalist->rdata, rdata, link);

dns_rdatalist_tordataset(rdatalist, rdataset);

result = dns_message_gettempname(lookup->sendmsg, &soaname);
check_result(result, "dns_message_gettempname");
dns_name_init(soaname, NULL);
dns_name_clone(lookup->name, soaname);
ISC_LIST_INIT(soaname->list);
ISC_LIST_APPEND(soaname->list, rdataset, link);
dns_message_addname(lookup->sendmsg, soaname, DNS_SECTION_AUTHORITY);
}

static void
compute_cookie(unsigned char *clientcookie, size_t len) {
    /* XXXMPA need to fix, should be per server. */
    INSIST(len >= 8U);
    memmove(clientcookie, cookie_secret, 8);
/*%
 * Setup the supplied lookup structure, making it ready to start sending
 * queries to servers. Create and initialize the message to be sent as
 * well as the query structures and buffer space for the replies. If the
 * server list is empty, clone it from the system default list.
 */

bool setup_lookup(dig_lookup_t *lookup) {
    isc_result_t result;
    uint32_t id;
    unsigned int len;
    dig_server_t *serv;
    dig_query_t *query;
    isc_buffer_t b;
    dns_compress_t cctx;
    char store[MXNAME];
    char ecsbuf[20];
    char cookiebuf[256];
    char *origin = NULL;
    char *textname = NULL;
#ifdef WITH_IDN_SUPPORT
    char idn_origin[MXNAME], idn_textname[MXNAME];
#endif
#ifdef WITH_IDN_OUT_SUPPORT
    result = dns_name_settotextfilter(lookup->idnout ? output_filter : NULL);
    check_result(result, "dns_name_settotextfilter");
#endif

    REQUIRE(lookup != NULL);
    INSIST(!free_now);
    debug("setup_lookup(%p)", lookup);

    result = dns_message_create(mctx, DNS_MESSAGE_INTENTRENDER, &lookup->sendmsg);
    check_result(result, "dns_message_create");

    if (lookup->new_search) {
        debug("resetting lookup counter.");
        lookup_counter = 0;
    }

    if (ISC_LIST_EMPTY(lookup->my_server_list)) {
        debug("cloning server list");
    }
}
clone_server_list(server_list, &lookup->my_server_list);
}
result = dns_message_gettempname(lookup->sendmsg, &lookup->name);
check_result(result, "dns_message_gettempname");
dns_name_init(lookup->name, NULL);
isc_buffer_init(&lookup->namebuf, lookup->name_space,
sizeof(lookup->name_space));
isc_buffer_init(&lookup->onamebuf, lookup->oname_space,
sizeof(lookup->oname_space));

/*
 * We cannot convert `textname' and `origin' separately.
 * `textname' doesn't contain TLD, but local mapping needs
 * TLD.
 */
textname = lookup->textname;
#ifdef WITH_IDN_SUPPORT
if (lookup->idnin) {
    result = idn_locale_to_ace(textname, idn_textname, sizeof(idn_textname));
    check_result(result, "convert textname to IDN encoding");
    debug("idn_textname: %s", idn_textname);
    textname = idn_textname;
}
#endif

/*
 * If the name has too many dots, force the origin to be NULL
 * (which produces an absolute lookup). Otherwise, take the origin
 * we have if there's one in the struct already. If it's NULL,
 * take the first entry in the searchlist iff either usesearch
 * is TRUE or we got a domain line in the resolv.conf file.
 */
if (lookup->new_search) {
    if ((count_dots(textname) >= ndots) || !usesearch) {
        lookup->origin = NULL; /* Force abs lookup */
        lookup->done_as_is = true;
        lookup->need_search = usesearch;
    } else if (lookup->origin == NULL && usesearch) {
        lookup->origin = ISC_LIST_HEAD(search_list);
        lookup->need_search = false;
    }
}

if (lookup->origin != NULL) {
    debug("trying origin %s", lookup->origin->origin);
    result = dns_message_gettempname(lookup->sendmsg,
&lookup->oname);
check_result(result, "dns_message_gettempname");
dns_name_init(lookup->oname, NULL);
/* XXX Helper funct to conv char* to name? */
origin = lookup->origin->origin;
#endif WITH_IDN_SUPPORT
if (lookup->idnin) {
result = idn_locale_to_ace(origin, idn_origin, sizeof(idn_origin));
check_result(result, "convert origin to IDN encoding");
dbg("trying idn origin %s", idn_origin);
origin = idn_origin;
}
len = (unsigned int) strlen(origin);
isc_buffer_init(&b, origin, len);
isc_buffer_add(&b, len);
result = dns_name_fromtext(lookup->oname, &b, dns_rootname,
0, &lookup->onamebuf);
if (result != ISC_R_SUCCESS) {
dns_message_puttempname(lookup->sendmsg,
&lookup->name);
dns_message_puttempname(lookup->sendmsg,
&lookup->oname);
fatal("'%s' is not in legal name syntax (%s)",
origin,
isc_result_totext(result));
}
if (lookup->trace && lookup->trace_root) {
dns_name_clone(dns_rootname, lookup->name);
} else {
dns_fixedname_t fixed;
dns_name_t *name;
name = dns_fixedname_initname(&fixed);
len = (unsigned int) strlen(textname);
isc_buffer_init(&b, textname, len);
isc_buffer_add(&b, len);
result = dns_name_fromtext(name, &b, NULL, 0, NULL);
if (result == ISC_R_SUCCESS &&
!dns_name_isabsolute(name))
result = dns_name_concatenate(name,
lookup->oname,
lookup->name,
&lookup->namebuf);
else if (result == ISC_R_SUCCESS)
result = dns_name_copy(name, lookup->name,
&lookup->namebuf);
if (result != ISC_R_SUCCESS) {

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dns_message_puttempname(lookup->sendmsg, &lookup->name);
dns_message_puttempname(lookup->sendmsg, &lookup->oname);
if (result == DNS_R_NAMETOOLONG)
  return (false);
fatal("%s' is not in legal name syntax (%s)",
    lookup->textname,
    isc_result_totext(result));
}
}
dns_message_puttempname(lookup->sendmsg, &lookup->oname);
} else {
  debug("using root origin");
  if (lookup->trace && lookup->trace_root)
    dns_name_clone(dns_rootname, lookup->name);
  else {
    len = (unsigned int) strlen(textname);
    isc_buffer_init(&b, textname, len);
    isc_buffer_add(&b, len);
    result = dns_name_fromtext(lookup->name, &b,
      dns_rootname, 0,
      &lookup->namebuf);
  }
  if (result != ISC_R_SUCCESS) {
    dns_message_puttempname(lookup->sendmsg, &lookup->name);
    fatal("%s' is not a legal name "
      
      "(%s)", lookup->textname,
      isc_result_totext(result));
  }
}
dns_name_format(lookup->name, store, sizeof(store));
dighost_trying(store, lookup);
INSIST(dns_name_isabsolute(lookup->name));

isc_random_get(&id);
lookup->sendmsg->id = (unsigned short)id & 0xFFFF;
lookup->sendmsg->opcode = lookup->opcode;
lookup->msgcounter = 0;

/*
 * If this is a trace request, completely disallow recursion after
 * looking up the root name servers, since it's meaningless for traces.
 */
if ((lookup->trace || lookup->ns_search_only) && !lookup->trace_root) {
  lookup->recurse = false;
}
if (lookup->recurse &&
    lookup->rdtype != dns_rdatatype_axfr &&
    lookup->rdtype != dns_rdatatype_ixfr) {
    debug("recursive query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_RD;
}

/* XXX aaflag */
if (lookup->aaonly) {
    debug("AA query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_AA;
}

if (lookup->adflag) {
    debug("AD query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_AD;
}

if (lookup->cdflag) {
    debug("CD query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_CD;
}

if (lookup->zflag) {
    debug("Z query");
    lookup->sendmsg->flags |= 0x0040U;
}

dns_message_addname(lookup->sendmsg, lookup->name,
                    DNS_SECTION_QUESTION);

if (lookup->trace && lookup->trace_root) {
    lookup->qrdtype = lookup->rdtype;
    lookup->rdtype = dns_rdatatype_ns;
}

if ((lookup->rdtype == dns_rdatatype_axfr) ||
    (lookup->rdtype == dns_rdatatype_ixfr)) {
    /*
     * Force TCP mode if we're doing an axfr.
     */
    if (lookup->rdtype == dns_rdatatype_axfr) {
        lookup->doing_xfr = true;
        lookup->tcp_mode = true;
    } else if (lookup->tcp_mode) {
        lookup->doing_xfr = true;
    }
if (!lookup->header_only)
add_question(lookup->sendmsg, lookup->name, lookup->rdclass,
        lookup->rdtype);

/* add soa */
if (lookup->rdtype == dns_rdatatype_ixfr)
insert_soa(lookup);

/* XXX Insist this? */
lookup->tsigctx = NULL;
lookup->querysig = NULL;
if (tsigkey != NULL) {
    debug("initializing keys");
    result = dns_message_settsigkey(lookup->sendmsg, tsigkey);
    check_result(result, "dns_message_settsigkey");
}

lookup->sendspace = isc_mempool_get(commctx);
if (lookup->sendspace == NULL)
fatal("memory allocation failure");

result = dns_compress_init(&cctx, -1, mctx);
check_result(result, "dns_compress_init");

db ug("starting to render the message");
isc_buffer_init(&lookup->renderbuf, lookup->sendspace, COMMSIZE);
result = dns_message_renderbegin(lookup->sendmsg, &cctx,
        &lookup->renderbuf);
check_result(result, "dns_message_renderbegin");
if (lookup->udpsize > 0 || lookup->dnssec ||
    lookup->edns > -1 || lookup->ecs_addr != NULL)
{
#define MAXOPTS (EDNSOPT_OPTIONS + DNS_EDNSOPTIONS)
    dns_ednsopt_t opts[MAXOPTS];
    unsigned int flags;
    unsigned int i = 0;

    if (lookup->udpsize == 0)
        lookup->udpsize = 4096;
    if (lookup->edns < 0)
        lookup->edns = 0;

    if (lookup->nsid) {
        INSIST(i < MAXOPTS);
        opts[i].code = DNS_OPT_NSID;
        opts[i].length = 0;
    }
opts[i].value = NULL;
i++;
}

if (lookup->ecs_addr != NULL) {
  uint8_t addr[16];
  uint16_t family = 0;
  uint32_t plen;
  struct sockaddr *sa;
  struct sockaddr_in *sin;
  struct sockaddr_in6 *sin6;
  size_t addrl;

  sa = &lookup->ecs_addr->type.sa;
  plen = lookup->ecs_addr->length;

  /* Round up prefix len to a multiple of 8 */
  addrl = (plen + 7) / 8;

  INSIST(i < MAXOPTS);
  opts[i].code = DNS_OPT_CLIENT_SUBNET;
  opts[i].length = (uint16_t) addrl + 4;
  check_result(result, "isc_buffer_allocate");

  /*
   * XXXMUKS: According to RFC7871, "If there is
   * no ADDRESS set, i.e., SOURCE PREFIX-LENGTH is
   * set to 0, then FAMILY SHOULD be set to the
   * transport over which the query is sent."
   *
   * However, at this point we don't know what
   * transport(s) we'll be using, so we can't
   * set the value now. For now, we're using
   * IPv4 as the default the +subnet option
   * used an IPv4 prefix, or for +subnet=0,
   * and IPv6 if the +subnet option used an
   * IPv6 prefix.
   *
   * (For future work: preserve the offset into
   * the buffer where the family field is;
   * that way we can update it in send_udp()
   * or send_tcp_connect() once we know
   * what it ought to be.)
   */
  switch (sa->sa_family) {
    case AF_UNSPEC:
      INSIST(plen == 0);
      family = 1;
break;
case AF_INET:
    INSIST(plen <= 32);
    family = 1;
    sin = (struct sockaddr_in *) sa;
    memmove(addr, &sin->sin_addr, addrl);
    break;
case AF_INET6:
    INSIST(plen <= 128);
    family = 2;
    sin6 = (struct sockaddr_in6 *) sa;
    memmove(addr, &sin6->sin6_addr, addrl);
    break;
default:
    INSIST(0);
    ISC_UNREACHABLE();
    }

isc_buffer_init(&b, ecsbuf, sizeof(ecsbuf));
/* family */
isc_buffer_putuint16(&b, family);
/* source prefix-length */
isc_buffer_putuint8(&b, plen);
/* scope prefix-length */
isc_buffer_putuint8(&b, 0);

/* address */
if (addrl > 0) {
/* Mask off last address byte */
    if ((plen % 8) != 0)
        addr[addrl - 1] &= ~0U << (8 - (plen % 8));
    isc_buffer_putmem(&b, addr,
        (unsigned)addrl);
}

opts[i].value = (uint8_t *) ecsbuf;
i++;
}

if (lookup->sendcookie) {
    INSIST(i < MAXOPTS);
    opts[i].code = DNS_OPT_COOKIE;
    if (lookup->cookie != NULL) {
        isc_buffer_init(&b, cookiebuf,
            sizeof(cookiebuf));
        result = isc_hex_decodestring(lookup->cookie,
            &b);
    }
}
check_result(result, "isc_hex_decodestring");
opts[i].value = isc_buffer_base(&b);
opts[i].length = isc_buffer_usedlength(&b);
} else {
    compute_cookie(cookie, sizeof(cookie));
opts[i].value = cookie;
}
i++;
}

if (lookup->expire) {
    INSIST(i < MAXOPTS);
opts[i].code = DNS_OPT_EXPIRE;
opts[i].length = 0;
opts[i].value = NULL;
i++;
}
if (lookup->ednsoptscnt != 0) {
    INSIST(i + lookup->ednsoptscnt <= MAXOPTS);
    memmove(&opts[i], lookup->ednsopts,
sizeof(dns_ednsopt_t) * lookup->ednsoptscnt);
i += lookup->ednsoptscnt;
}

flags = lookup->ednsflags;
flags &= ~DNS_MESSAGEEXTFLAG_DO;
if (lookup->dnssec)
    flags |= DNS_MESSAGEEXTFLAG_DO;
add_opt(lookup->sendmsg, lookup->udpsize,
lookup->edns, flags, opts, i);
}

result = dns_message_rendersection(lookup->sendmsg,
        DNS_SECTION_QUESTION, 0);
check_result(result, "dns_message_rendersection");
result = dns_message_rendersection(lookup->sendmsg,
        DNS_SECTION_AUTHORITY, 0);
check_result(result, "dns_message_rendersection");
result = dns_message_renderend(lookup->sendmsg);
check_result(result, "dns_message_renderend");
dump(lookup->sendmsg);

/*
 * Force TCP mode if the request is larger than 512 bytes.
if (isc_buffer_usedlength(&lookup->renderbuf) > 512)
lookup->tcp_mode = true;

lookup->pending = false;

for (serv = ISC_LIST_HEAD(lookup->my_server_list);
serv != NULL;
serv = ISC_LIST_NEXT(serv, link)) {
    query = isc_mem_allocate(mctx, sizeof(dig_query_t));
    if (query == NULL)
fatal("memory allocation failure in %s:%d",
         __FILE__, __LINE__);
    debug("create query %p linked to lookup %p",
          query, lookup);
    query->lookup = lookup;
    query->timer = NULL;
    query->waiting_connect = false;
    query->waiting_senddone = false;
    query->pending_free = false;
    query->recv_made = false;
    query->first_pass = true;
    query->first_soa_rcvd = false;
    query->second_rr_rcvd = false;
    query->first_repeat_rcvd = false;
    query->warn_id = true;
    query->timedout = false;
    query->first_rr_serial = 0;
    query->second_rr_serial = 0;
    query->servname = serv->servername;
    query->userarg = serv->userarg;
    query->rr_count = 0;
    query->msg_count = 0;
    query->byte_count = 0;
    query->ixfr_axfr = false;
    ISC_LIST_INIT(query->recvlist);
    ISC_LIST_INIT(query->lengthlist);
    query->sock = NULL;
    query->recvspace = isc_mempool_get(commctx);
    if (query->recvspace == NULL)
fatal("memory allocation failure");

    isc_buffer_init(&query->recvbuf, query->recvspace, COMMSIZE);
    isc_buffer_init(&query->lengthbuf, query->lengthspace, 2);
    isc_buffer_init(&query->slbuf, query->slspace, 2);
    query->sendbuf = lookup->renderbuf;

    ISC_LINK_INIT(query, clink);
ISC_LINK_INIT(query, link);
ISC_LIST_ENQUEUE(lookup->q, query, link);
}

/* XXX qrflag, print_query, etc... */
if (!ISC_LIST_EMPTY(lookup->q) && qr) {
extrabytes = 0;
dighost_printmessage(ISC_LIST_HEAD(lookup->q), lookup->sendmsg,
true);
if (lookup->stats)
printf(";; QUERY SIZE: %u

",
isc_buffer_usedlength(&lookup->renderbuf));
}
return (true);
}

/*%
* Event handler for send completion.  Track send counter, and clear out
* the query if the send was canceled.
*/
static void
send_done(isc_task_t *task, isc_event_t *event) {
isc_socketevent_t *sevent = (isc_socketevent_t *)event;
isc_buffer_t *b = NULL;
dig_query_t *query, *next;
dig_lookup_t *l;

REQUIRE(event->ev_type == ISC_SOCKEVENT_SENDDONE);

UNUSED(task);

LOCK_LOOKUP;

debug("send_done()");
sendcount--;
debug("sendcount=%d", sendcount);
INSIST(sendcount >= 0);

for (b = ISC_LIST_HEAD(sevent->bufferlist);
b != NULL;
b = ISC_LIST_HEAD(sevent->bufferlist)) {
ISC_LIST_DEQUEUE(sevent->bufferlist, b, link);
isc_mem_free(mctx, b);
}

query = event->ev_arg;
query->waiting_senddone = false;
l = query->lookup;

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if (l->ns_search_only && !l->trace_root && !l->tcp_mode) {
    debug("sending next, since searching");
    next = ISC_LIST_NEXT(query, link);
    if (next != NULL)
        send_udp(next);
}

isc_event_free(&event);

if (query->pending_free)
    isc_mem_free(mctx, query);

cHECK_IF_DONE;
UNLOCK_LOOKUP;
}

/*%
 * Cancel a lookup, sending isc_socket_cancel() requests to all outstanding
 * IO sockets. The cancel handlers should take care of cleaning up the
 * query and lookup structures
 */
static void
cancel_lookup(dig_lookup_t *lookup) {
    dig_query_t *query, *next;

dDEBUG("cancel_lookup()");
    query = ISC_LIST_HEAD(lookup->q);
    while (query != NULL) {
        next = ISC_LIST_NEXT(query, link);
        if (query->sock != NULL) {
            isc_socket_cancel(query->sock, global_task,
                ISC_SOCKCANCEL_ALL);
            check_if_done();
        } else {
            clear_query(query);
        }
        query = next;
    }
    lookup->pending = false;
    lookup->retries = 0;
}

static void
bringup_timer(dig_query_t *query, unsigned int default_timeout) {
    diglookup_t *l;
    unsigned int local_timeout;
    isc_result_t result;

debug("bringup_timer()");
/*
 * If the timer already exists, that means we're calling this
 * a second time (for a retry). Don't need to recreate it,
 * just reset it.
 */
l = query->lookup;
if (ISC_LINK_LINKED(query, link) && ISC_LIST_NEXT(query, link) != NULL)
   local_timeout = SERVER_TIMEOUT;
else {
   if (timeout == 0)
      local_timeout = default_timeout;
   else
      local_timeout = timeout;
}
ddebug("have local timeout of %d", local_timeout);
isc_interval_set(&l->interval, local_timeout, 0);
if (query->timer != NULL)
   isc_timer_detach(&query->timer);
result = isc_timer_create(timermgr, isc_timertype_once, NULL,
   &l->interval, global_task, connect_timeout,
   query, &query->timer);
check_result(result, "isc_timer_create");
}

static void
force_timeout(dig_query_t *query) {
   isc_event_t *event;

   debug("force_timeout ()");
   event = isc_event_allocate(mctx, query, ISC_TIMEREVENT_IDLE,
      &l->interval, query,
      sizeof(isc_event_t));
   if (event == NULL) {
      fatal("isc_event_allocate: %s",
         isc_result_totext(ISC_R_NOMEMORY));
   }
   isc_task_send(global_task, &event);

   /*
   * The timer may have expired if, for example, get_address() takes
   * long time and the timer was running on a different thread.
   * We need to cancel the possible timeout event not to confuse
   * ourselves due to the duplicate events.
   */
   if (query->timer != NULL)
      isc_timer_detach(&query->timer);
static void
connect_done(isc_task_t *task, isc_event_t *event);

/*%
 * Unlike send_udp, this can't be called multiple times with the same
 * query. When we retry TCP, we requeue the whole lookup, which should
 * start anew.
 */
static void
send_tcp_connect(dig_query_t *query) {
    isc_result_t result;
    dig_query_t *next;
    dig_lookup_t *l;

    debug("send_tcp_connect(%p)", query);

    l = query->lookup;
    query->waiting_connect = true;
    query->lookup->current_query = query;
    result = get_address(query->servname, port, &query->sockaddr);
    if (result != ISC_R_SUCCESS) {
        /*
         * This servname doesn't have an address. Try the next server
         * by triggering an immediate 'timeout' (we lie, but the effect
         * is the same).
         */
        force_timeout(query);
        return;
    }

    if (!l->mapped && isc_sockaddr_pf(&query->sockaddr) == AF_INET6 &&
        IN6_IS_ADDR_V4MAPPED(&query->sockaddr.type.sin6.sin6_addr)) {
        isc_netaddr_t netaddr;
        char buf[ISC_NETADDR_FORMATSIZE];

        isc_netaddr_fromsockaddr(&netaddr, &query->sockaddr);
        isc_netaddr_format(&netaddr, buf, sizeof(buf));
        printf(";; Skipping mapped address '%s\n", buf);

        query->waiting_connect = false;
        if (ISC_LINK_LINKED(query, link))
            next = ISC_LIST_NEXT(query, link);
        else
            next = NULL;
        l = query->lookup;
    }
}
clear_query(query);
if (next == NULL) {
    printf(";; No acceptable nameservers\n");
    check_next_lookup();
    return;
}
send_tcp_connect(next);
return;
}

INSIST(query->sock == NULL);

if (keep != NULL && &isc_sockaddr_equal(&keepaddr, &query->sockaddr)) {
    sockcount++;
    isc_socket_attach(keep, &query->sock);
    query->waiting_connect = false;
    launch_next_query(query, true);
    goto search;
}

result = isc_socket_create(socketmgr, isc_sockaddr_pf(&query->sockaddr), isc_sockettype_tcp, &query->sock);
check_result(result, "isc_socket_create");
sockcount++;
debug("sockcount=%d", sockcount);
if (query->lookup->dscp != -1)
    isc_socket_dscp(query->sock, query->lookup->dscp);
    isc_socket_ipv6only(query->sock, !query->lookup->mapped);
if (specified_source)
    result = isc_socket_bind(query->sock, &bind_address, ISC_SOCKET_REUSEADDRESS);
else {
    if ((isc_sockaddr_pf(&query->sockaddr) == AF_INET) && have_ipv4)
        isc_sockaddr_any(&bind_any);
    else
        isc_sockaddr_any6(&bind_any);
    result = isc_socket_bind(query->sock, &bind_any, 0);
}
check_result(result, "isc_socket_bind");
bringup_timer(query, TCP_TIMEOUT);
result = isc_socket_connect(query->sock, &query->sockaddr, global_task, connect_done, query);
check_result(result, "isc_socket_connect");
search:
/*
 * If we're at the endgame of a nameserver search, we need to
* immediately bring up all the queries. Do it here.
 */
if (l->ns_search_only && !l->trace_root) {
    debug("sending next, since searching");
    if (ISC_LINK_LINKED(query, link)) {
        next = ISC_LIST_NEXT(query, link);
        ISC_LIST_DEQUEUE(l->q, query, link);
    } else
        next = NULL;
    ISC_LIST_ENQUEUE(l->connecting, query, clink);
    if (next != NULL)
        send_tcp_connect(next);
}
}

static isc_buffer_t *
clone_buffer(isc_buffer_t *source) {
    isc_buffer_t *buffer;
    buffer = isc_mem_allocate(mctx, sizeof(*buffer));
    if (buffer == NULL)
        fatal("memory allocation failure in %s:%d",
             __FILE__, __LINE__);
    *buffer = *source;
    return (buffer);
}

/*%
 * Send a UDP packet to the remote nameserver, possible starting the
 * recv action as well. Also make sure that the timer is running and
 * is properly reset.
 */
static void
send_udp(dig_query_t *query) {
    dig_lookup_t *l = NULL;
    isc_result_t result;
    isc_buffer_t *sendbuf;
    dig_query_t *next;
    debug("send_udp(%p)", query);

    l = query->lookup;
    bringup_timer(query, UDP_TIMEOUT);
    l->current_query = query;
    debug("working on lookup %p, query %p", query->lookup, query);
    if (!query->recv_made) {
        /* XXX Check the sense of this, need assertion? */
        debug("sending next, since searching");
        if (ISC_LINK_LINKED(query, link)) {
            next = ISC_LIST_NEXT(query, link);
            ISC_LIST_DEQUEUE(l->q, query, link);
        } else
            next = NULL;
        ISC_LIST_ENQUEUE(l->connecting, query, clink);
        if (next != NULL)
            send_tcp_connect(next);
    }

    sendbuf = clone_buffer(query->query_buffer);
    sendbuf->is_response = false;
    sendbuf->in_response_to = query;
    sendbuf->udp_send = true;
    sendbuf->flags &= ~ISC_UDP_FLAG_RESERVED;
    debug("sending UDP %p", sendbuf);
    result = send_udp(query, sendbuf);
    if (result == isc_result_ok)
        debug("UDP request %p sent", sendbuf);
    else
        debug("UDP request %p failed", sendbuf);
    free(sendbuf);
}

/*%
 */

if (result != ISC_R_SUCCESS) {
/* This servname doesn't have an address. */
force_timeout(query);
return;
}

if (!l->mapped &&
    isc_sockaddr_pf(&query->sockaddr) == AF_INET6 &&
    IN6_IS_ADDR_V4MAPPED(&query->sockaddr.type.sin6.sin6_addr)) {
    isc_netaddr_t netaddr;
    char buf[ISC_NETADDR_FORMATSIZE];

    isc_netaddr_fromsockaddr(&netaddr, &query->sockaddr);
    isc_netaddr_format(&netaddr, buf, sizeof(buf));
    printf(";; Skipping mapped address '%s\n", buf);

    next = ISC_LIST_NEXT(query, link);
    l = query->lookup;
    clear_query(query);
    if (next == NULL) {
        printf(";; No acceptable nameservers\n");
        check_next_lookup(l);
    } else {
        send_udp(next);
    }
    return;
}

result = isc_socket_create(socketmgr,
    isc_sockaddr_pf(&query->sockaddr),
    isc_sockettype_udp, &query->sock);
check_result(result, "isc_socket_create");
sockcount++;
debug("sockcount=%d", sockcount);
if (query->lookup->dscp != -1)
    isc_socket_dscp(query->sock, query->lookup->dscp);
    isc_socket_ipv6only(query->sock, !query->lookup->mapped);
if (specified_source) {
    result = isc_socket_bind(query->sock, &bind_address,
        ISC_SOCKET_REUSEADDRESS);
} else {
    isc_sockaddr_anyofpf(&bind_any,
        isc_sockaddr_pf(&query->sockaddr));
    result = isc_socket_bind(query->sock, &bind_any, 0);
}
check_result(result, "isc_socket_bind");
query->recv_made = true;
ISC_LINK_INIT(&query->recvbuf, link);
ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
d debug("recving with lookup=%p, query=%p, sock=%p",
   query->lookup, query, query->sock);
result = isc_socket_recv(query->sock, &query->recvlist, 1,
   global_task, recv_done, query);
check_result(result, "isc_socket_recv");
recvcount++;
d debug("recvcount=%d", recvcount);
}
ISC_LIST_INIT(query->sendlist);
sendbuf = clone_buffer(&query->sendbuf);
ISC_LIST_ENQUEUE(query->sendlist, sendbuf, link);
d debug("sending a request");
TIME_NOW(&query->time_sent);
INSIST(query->sock != NULL);
query->waiting_senddone = true;
result = isc_socket_sendtov2(query->sock, &query->sendlist,
   global_task, send_done, query,
   &query->sockaddr, NULL,
   ISC_SOCKFLAG_NORETRY);
check_result(result, "isc_socket_sendtov");
sendcount++;
}

/*%
 * If there are more servers available for querying within 'lookup', initiate a
 * TCP or UDP query to the next available server and return true; otherwise,
 * return false.
 */
static bool
try_next_server(dig_lookup_t *lookup) {
dig_query_t *current_query, *next_query;

current_query = lookup->current_query;
if (current_query == NULL || ISC_LINK.Linked(current_query, link)) {
   return (false);
}

next_query = ISC_LIST.NEXT(current_query, link);
if (next_query == NULL) {
   return (false);
}

d debug("trying next server...");
if (lookup->tcp_mode) {
    send_tcp_connect(next_query);
} else {
    send_udp(next_query);
}

return (true);
}

/*%
 * IO timeout handler, used for both connect and recv timeouts. If
 * retries are still allowed, either resend the UDP packet or queue a
 * new TCP lookup. Otherwise, cancel the lookup.
 */
static void
connect_timeout(isc_task_t *task, isc_event_t *event) {
    dig_lookup_t *l = NULL;
    dig_query_t *query = NULL;
    UNUSED(task);
    REQUIRE(event->ev_type == ISC_TIMEREVENT_IDLE);
    debug("connect_timeout()");

    LOCK_LOOKUP;
    query = event->ev_arg;
    l = query->lookup;
    isc_event_free(&event);

    INSIST(!free_now);
    if (cancel_now) {
        UNLOCK_LOOKUP;
        return;
    }

    if (try_next_server(l)) {
        if (l->tcp_mode) {
            if (query->sock != NULL) {
                isc_socket_cancel(query->sock, NULL,
                                   ISC_SOCKCANCEL_ALL);
            } else {
                clear_query(query);
            }
        }
        UNLOCK_LOOKUP;
        return;
    }

    unlock_lookup(l);
    isc_socket_free(query->sock);
    UNLOCK_LOOKUP;
    return;
}

/*%
 * IO timeout handler, used for both connect and recv timeouts. If
 * retries are still allowed, either resend the UDP packet or queue a
 * new TCP lookup. Otherwise, cancel the lookup.
 */
static void
connect_timeout(isc_task_t *task, isc_event_t *event) {
    dig_lookup_t *l = NULL;
    dig_query_t *query = NULL;
    UNUSED(task);
    REQUIRE(event->ev_type == ISC_TIMEREVENT_IDLE);

    debug("connect_timeout()");

    LOCK_LOOKUP;
    query = event->ev_arg;
    l = query->lookup;
    isc_event_free(&event);

    INSIST(!free_now);

    if (cancel_now) {
        UNLOCK_LOOKUP;
        return;
    }

    if (try_next_server(l)) {
        if (l->tcp_mode) {
            if (query->sock != NULL) {
                isc_socket_cancel(query->sock, NULL,
                                   ISC_SOCKCANCEL_ALL);
            } else {
                clear_query(query);
            }
        }
        UNLOCK_LOOKUP;
        return;
    }

    unlock_lookup(l);
    isc_socket_free(query->sock);
    UNLOCK_LOOKUP;
    return;
}
if (l->tcp_mode && query->sock != NULL) {
    query->timedout = true;
    isc_socket_cancel(query->sock, NULL, ISC_SOCKCANCEL_ALL);
}

if (l->retries > 1) {
    if (!l->tcp_mode) {
        l->retries--;
        debug("resending UDP request to first server");
        send_udp(ISC_LIST_HEAD(l->q));
    } else {
        debug("making new TCP request, %d tries left",
              l->retries);
        l->retries--;
        requeue_lookup(l, true);
        cancel_lookup(l);
        check_next_lookup(l);
    }
} else {
    if (!l->ns_search_only) {
        fputs(l->cmdline, stdout);
        printf(";; connection timed out; no servers could be "
               "reached\n");
    }
    cancel_lookup(l);
    check_next_lookup(l);
    if (exitcode < 9)
        exitcode = 9;
}
UNLOCK_LOOKUP;

/*
 * Event handler for the TCP recv which gets the length header of TCP
 * packets. Start the next recv of length bytes.
 */
static void
tcp_length_done(isc_task_t *task, isc_event_t *event) {
    isc_socketevent_t *sevent;
    isc_buffer_t *b = NULL;
    isc_result_t result;
    dig_query_t *query = NULL;
    dig_lookup_t *l, *n;
    uint16_t length;

    REQUIRE(event->ev_type == ISC_SOCKEVENT_RECVDONE);
    INSIST(!free_now);

    if (l->tcp_mode && query->sock != NULL) {
        query->timedout = true;
        isc_socket_cancel(query->sock, NULL, ISC_SOCKCANCEL_ALL);
    }

    if (l->retries > 1) {
        if (!l->tcp_mode) {
            l->retries--;
            debug("resending UDP request to first server");
            send_udp(ISC_LIST_HEAD(l->q));
        } else {
            debug("making new TCP request, %d tries left",
                  l->retries);
            l->retries--;
            requeue_lookup(l, true);
            cancel_lookup(l);
            check_next_lookup(l);
        }
    } else {
        if (!l->ns_search_only) {
            fputs(l->cmdline, stdout);
            printf(";; connection timed out; no servers could be "
                   "reached\n");
        }
        cancel_lookup(l);
        check_next_lookup(l);
        if (exitcode < 9)
            exitcode = 9;
    }
    UNLOCK_LOOKUP;
}
UNUSED(task);

debug("tcp_length_done()");

LOCK_LOOKUP;
sevent = (isc_socketevent_t *)event;
query = event->ev_arg;

recvcount--;
INSIST(recvcount >= 0);

b = ISC_LIST_HEAD(sevent->bufferlist);
INSIST(b == &query->lengthbuf);
ISC_LIST_DEQUEUE(sevent->bufferlist, b, link);

if (sevent->result == ISC_R_CANCELED) {
    isc_event_free(&event);
l = query->lookup;
clear_query(query);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
if (sevent->result != ISC_R_SUCCESS) {
    char sockstr[ISC_SOCKADDR_FORMATSIZE];
    isc_sockaddr_format(&query->sockaddr, sockstr,
sizeof(sockstr));
    printf(";; communications error to %s: %s\n",
sockstr, isc_result_totext(sevent->result));
    if (keep != NULL)
isc_socket_detach(&keep);
l = query->lookup;
isc_socket_detach(&query->sock);
sockcount--;
debug("sockcount=%d", sockcount);
INSIST(sockcount >= 0);
if (sevent->result == ISC_R_EOF && l->eoferr == 0U) {
n = requeue_lookup(l, true);
n->eoferr++;
}
isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
length = isc_buffer_getuint16(b);
if (length == 0) {
    isc_event_free(&event);
    launch_next_query(query, false);
    UNLOCK_LOOKUP;
    return;
}

    /*
     * Even though the buffer was already init'ed, we need
     * to redo it now, to force the length we want.
     */
    isc_buffer_invalidate(&query->recvbuf);
    isc_buffer_init(&query->recvbuf, query->recvspace, length);
    ENSURE(ISC_LIST_EMPTY(query->recvlist));
    ISC_LINK_INIT(&query->recvbuf, link);
    ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
    debug("recving with lookup=%p, query=%p", query->lookup, query);
    result = isc_socket_recvv(query->sock, &query->recvlist, length, task,
                             recv_done, query);
    check_result(result, "isc_socket_recvv");
    recvcount++;
    debug("resubmitted recv request with length %d, recvcount=%d",
          length, recvcount);
    isc_event_free(&event);
    UNLOCK_LOOKUP;
}

    /*%
     * For transfers that involve multiple recvs (XFR's in particular),
     * launch the next recv.
     */
    static void
    launch_next_query(dig_query_t *query, bool include_question) {
        isc_result_t result;
        dig_lookup_t *l;
        isc_buffer_t *buffer;

        INSIST(!free_now);

        debug("launch_next_query()");

        if (!query->lookup->pending) {
            debug("ignoring launch_next_query because !pending");
            isc_socket_detach(&query->sock);
            sockcount--;
            debug("sockcount=%d", sockcount);
            INSIST(sockcount >= 0);
        }
Open Source Used In Viptela 20.1.11479

query->waiting_connect = false;
l = query->lookup;
clear_query(query);
check_next_lookup(l);
return;
}

isc_buffer_clear(&query->slbuf);
isc_buffer_clear(&query->lengthbuf);
isc_buffer_putuint16(&query->slbuf, (uint16_t) query->sendbuf.used);
ISC_LIST_INIT(query->sendlist);
ISC_LINK_INIT(&query->slbuf, link);
if (!query->first_soarcvd) {
    buffer = clone_buffer(&query->slbuf);
    ISC_LIST_ENQUEUE(query->sendlist, buffer, link);
    if (include_question) {
        buffer = clone_buffer(&query->sendbuf);
        ISC_LIST_ENQUEUE(query->sendlist, buffer, link);
    }
}

ISC_LINK_INIT(&query->lengthbuf, link);
ISC_LIST_ENQUEUE(query->lengthlist, &query->lengthbuf, link);

result = isc_socket_recvv(query->sock, &query->lengthlist, 0,
    global_task, tcp_length_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
debug("recvcount=%d", recvcount);
if (!query->first_soarcvd) {
    debug("sending a request in launch_next_query");
    TIME_NOW(&query->time_sent);
    query->waiting_senddone = true;
    result = isc_socket_sendv(query->sock, &query->sendlist,
        global_task, send_done, query);
    check_result(result, "isc_socket_sendv");
    sendcount++;
    debug("sendcount=%d", sendcount);
}
query->waiting_connect = false;
#if 0
check_next_lookup(query->lookup);
#endif
return;

/\%
* Event handler for TCP connect complete. Make sure the connection was
static void
connect_done(isc_task_t *task, isc_event_t *event) {
char sockstr[ISC_SOCKADDR_FORMATSIZE];
isc_socketevent_t *sevent = NULL;
dig_query_t *query = NULL, *next;
dig_lookup_t *l;

UNUSED(task);

REQUIRE(event->ev_type == ISC_SOCKEVENT_CONNECT);
INSIST(!free_now);

debug("connect_done()");

LOCK_LOOKUP;
sevent = (isc_socketevent_t *)event;
query = sevent->ev_arg;

INSIST(query->waiting_connect);

query->waiting_connect = false;

if (sevent->result == ISC_R_CANCELED) {
    debug("in cancel handler");
    isc_sockaddr_format(&query->sockaddr, sockstr, sizeof(sockstr));
    if (query->timedout)
        printf(";; Connection to %s(%s) for %s failed: %s.\n", 
               sockstr, query->servname,
               query->lookup->textname,
               isc_result_totext(ISC_R_TIMEDOUT));
    isc_socket_detach(&query->sock);
    INSIST(sockcount > 0);
    sockcount--;
    debug("sockcount=%d", sockcount);
    query->waiting_connect = false;
    isc_event_free(&event);
    l = query->lookup;
    clear_query(query);
    check_next_lookup(l);
    UNLOCK_LOOKUP;
    return;
}
if (sevent->result != ISC_R_SUCCESS) {
    debug("unsuccessful connection: %s", 

isc_result_totext(sevent->result);
ish_sockaddr_format(&query->sockaddr, sockstr, sizeof(sockstr));
if (sevent->result != ISC_R_CANCELED)
    printf(";; Connection to %s(%s) for %s failed: 
           "%s\n", sockstr,
        query->servname, query->lookup->textname,
        isc_result_totext(sevent->result));
isc_socketDetach(&query->sock);
INSIST(sockcount > 0);
sockcount--;
/* XXX Clean up exitcodes */
if (exitcode < 9)
    exitcode = 9;
ddebug("sockcount=%d", sockcount);
query->waiting_connect = false;
isc_eventFree(&event);
l = query->lookup;
if ((l->current_query != NULL) &&
    (ISC_LINK_LINKED(l->current_query, link)))
    next = ISC_LIST_NEXT(l->current_query, link);
else
    next = NULL;
clear_query(query);
if (next != NULL) {
    bringup_timer(next, TCP_TIMEOUT);
    send_tcp_connect(next);
} else
    check_next_lookup(l);
UNLOCK_LOOKUP;
return;
} 
exiitcode = 0;
if (keep_open) {
    if (keep != NULL)
        isc_socketDetach(&keep);
    isc_socketAttach(query->sock, &keep);
    keepaddr = query->sockaddr;
}
launch_next_query(query, true);
isc_eventFree(&event);
UNLOCK_LOOKUP;
}
/*%
 * Check if the ongoing XFR needs more data before it's complete, using
 * the semantics of IXFR and AXFR protocols. Much of the complexity of
 * this routine comes from determining when an IXFR is complete.
 * false means more data is on the way, and the recv has been issued.
static bool check_for_more_data(dig_query_t *query, dns_message_t *msg, 
    isc_socketevent_t *sevent) 
{ 
    dns_rdataset_t *rdataset = NULL;
    dns_rdata_t rdata = DNS_RDATA_INIT;
    dns_rdata_soa_t soa;
    uint32_t ixfr_serial = query->lookup->ixfr_serial, serial;
    isc_result_t result;
    bool ixfr = query->lookup->rdtype == dns_rdatatype_ixfr;
    bool axfr = query->lookup->rdtype == dns_rdatatype_axfr;

    if (ixfr)
        axfr = query->ixfr_axfr;

    debug("check_for_more_data()");

    /*
     * By the time we're in this routine, we know we're doing
     * either an AXFR or IXFR. If there's no second_rr_type,
     * then we don't yet know which kind of answer we got back
     * from the server. Here, we're going to walk through the
     * rr's in the message, acting as necessary whenever we hit
     * an SOA rr.
     */

    query->msg_count++;
    query->byte_count += sevent->n;
    result = dns_message_firstname(msg, DNS_SECTION_ANSWER);
    if (result != ISC_R_SUCCESS) 
        { puts("; Transfer failed.");
          return (true);
        }
    do {
        dns_name_t *name;
        name = NULL;
        dns_message_currentname(msg, DNS_SECTION_ANSWER, 
            &name);
        for (rdataset = ISC_LIST_HEAD(name->list);
            rdataset != NULL;
            rdataset = ISC_LIST_NEXT(rdataset, link)) 
        { result = dns_rdataset_first(rdataset);
            if (result != ISC_R_SUCCESS)
                continue;
        
            do {
                query->rr_count++;
                dns_rdata_reset(&rdata);

            } while (result == ISC_R_CONTINUE);
        
    } while (result == ISC_R_CONTINUE);
}
/*
 * If this is the first rr, make sure
 * it's an SOA
 */
if (!query->first_soa_rcvd &&
    (rdata.type != dns_rdatatype_soa)) {
    puts("; Transfer failed.  
    "  "Didn't start with SOA answer.");
    return (true);
}
if (!query->second_rr_rcvd &&
    (rdata.type != dns_rdatatype_soa)) {
    query->second_rr_rcvd = true;
    query->second_rr_serial = 0;
    debug("got the second rr as nonsoa");
    axfr = query->ixfr_axfr = true;
    goto next_rdata;
}

/*
 * If the record is anything except an SOA
 * now, just continue on...
 */
if (rdata.type != dns_rdatatype_soa)
goto next_rdata;

/* Now we have an SOA.  Work with it. */
dbg("got an SOA");
result = dns_rdata_tostruct(&rdata, &soa, NULL);
check_result(result, "dns_rdata_tostruct");
serial = soa.serial;
dns_rdata_freestruct(&soa);
if (!query->first_soa_rcvd) {
    query->first_soa_rcvd = true;
    query->first_rr_serial = serial;
    debug("this is the first serial %u",
          serial);
    if (ixfr && isc_serial_ge(ixfr_serial,
                               serial)) {
        dbg("got up to date 
        "  "response");
        goto doexit;
    }
    goto next_rdata;
} else if (axfr) {
    debug("doing axfr, got second SOA");
goto doexit;
}
if (!query->second_rr_rcvd) {
    if (query->first_rr_serial == serial) {
        debug("doing ixfr, got "
              "empty zone");
        goto doexit;
    }
    debug("this is the second serial %u",
          serial);
    query->second_rr_rcvd = true;
    query->second_rr_serial = serial;
    goto next_rdata;
}
/*
 * If we get to this point, we're doing an
 * IXFR and have to start really looking
 * at serial numbers.
 */
if (query->first_rr_serial == serial) {
    debug("got a match for ixfr");
    if (!query->first_repeat_rcvd) {
        query->first_repeat_rcvd =
true;
        goto next_rdata;
    }
    debug("done with ixfr");
    goto doexit;
}
debug("meaningless soa %u", serial);
next_rdata:
    result = dns_rdataset_next(rdataset);
} while (result == ISC_R_SUCCESS);

result = dns_message_nextname(msg, DNS_SECTION_ANSWER);
} while (result == ISC_R_SUCCESS);
launch_next_query(query, false);
return (false);
doexit:
dighost_received(sevent->n, &sevent->address, query);
return (true);
}

static void
process_cookie(dig_lookup_t *l, dns_message_t *msg,
                isc_buffer_t *optbuf, size_t optlen)
{
    char bb[256];
isc_buffer_t hexbuf;
size_t len;
const unsigned char *sent;
bool copy = true;
isc_result_t result;

if (l->cookie != NULL) {
    isc_buffer_init(&hexbuf, bb, sizeof(bb));
    result = isc_hex_decodestring(l->cookie, &hexbuf);
    check_result(result, "isc_hex_decodestring");
    sent = isc_buffer_base(&hexbuf);
    len = isc_buffer_usedlength(&hexbuf);
} else {
    sent = cookie;
    len = sizeof(cookie);
}

INSIST(msg->cc_ok == 0 && msg->cc_bad == 0);
if (len >= 8 && optlen >= 8U) {
    if (isc_safe_memequal(isc_buffer_current(optbuf), sent, 8)) {
        msg->cc_ok = 1;
    } else {
        printf(";; Warning: Client COOKIE mismatch\n");
        msg->cc_bad = 1;
        copy = false;
    }
} else {
    printf(";; Warning: COOKIE bad token (too short)\n");
    msg->cc_bad = 1;
    copy = false;
}
if (copy) {
    isc_region_t r;

    r.base = isc_buffer_current(optbuf);
    r.length = (unsigned int)optlen;
    isc_buffer_init(&hexbuf, servercookie, sizeof(servercookie));
    result = isc_hex_totext(&r, 2, ",", &hexbuf);
    check_result(result, "isc_hex_totext");
    if (isc_buffer_availablelength(&hexbuf) > 0) {
        isc_buffer_putuint8(&hexbuf, 0);
        l->cookie = servercookie;
    }
}
isc_buffer_forward(optbuf, (unsigned int)optlen);

static void
process_opt(dig_lookup_t *l, dns_message_t *msg) {
    dns_rdata_t rdata;
    isc_result_t result;
    isc_buffer_t optbuf;
    uint16_t optcode, optlen;
    dns_rdataset_t *opt = msg->opt;
    bool seen_cookie = false;

    result = dns_rdataset_first(opt);
    if (result == ISC_R_SUCCESS) {
        dns_rdata_init(&rdata);
        dns_rdataset_current(opt, &rdata);
        isc_buffer_init(&optbuf, rdata.data, rdata.length);
        isc_buffer_add(&optbuf, rdata.length);
        while (isc_buffer_remaininglength(&optbuf) >= 4) {
            optcode = isc_buffer_getuint16(&optbuf);
            optlen = isc_buffer_getuint16(&optbuf);
            switch (optcode) {
            case DNS_OPT_COOKIE:
                /*
                 * Only process the first cookie option.
                 */
                if (seen_cookie) {
                    isc_buffer_forward(&optbuf, optlen);
                    break;
                }
                process_cookie(l, msg, &optbuf, optlen);
                seen_cookie = true;
                break;
            default:
                isc_buffer_forward(&optbuf, optlen);
                break;
            }
        }
    }

    static int
    ednsvers(dns_rdataset_t *opt) {
        return ((opt->ttl >> 16) & 0xff);
    }

    /*%
    * Event handler for recv complete. Perform whatever actions are necessary,
    * based on the specifics of the user's request.
    */
    static void
    recv_done(isc_task_t *task, isc_event_t *event) {
isc_socketevent_t *sevent = NULL;
dig_query_t *query = NULL;
isc_buffer_t *b = NULL;
dns_message_t *msg = NULL;
#endif

dig_message_t *chase_msg = NULL;
dig_message_t *chase_msg2 = NULL;
#endif

isc_result_t result;
dig_lookup_t *n, *l;
bool docancel = false;
bool match = true;
bool done_process_opt = false;
unsigned int parseflags;
dns_messageid_t id;
unsigned int msgflags;
#endif

dig_result_t do_sigchase = false;

dns_message_t *msg_temp = NULL;
isc_region_t r;
isc_buffer_t *buf = NULL;
#endif

int newedns;

UNUSED(task);
INSIST(!free_now);

dehug("recv done() ");

LOCK_LOOKUP;
recvcnt--; debug("recvcnt=%d", recvcnt);
INSIST(recvcnt >= 0);

query = event->ev_arg;
TIME_NOW(&query->time_recv);
dehug("lookup=%p, query=%p", query->lookup, query);

l = query->lookup;
REQUIRE(event->ev_type == ISC_SOCKEVENT_RECV DONE);
sevent = (isc_socketevent_t *)event;

b = ISC_LIST_HEAD(sevent->bufferlist);
INSIST(b == &query->recvbuf);
ISC_LIST DEQUEUE(sevent->bufferlist, &query->recvbuf, link);
if ((l->tcp_mode) && (query->timer != NULL))
   isc_timer_touch(query->timer);
if (!l->pending && !l->ns_search_only || cancel_now) {
   debug("no longer pending. Got %s",
   isc_result_totext(sevent->result));
   query->waiting_connect = false;
}
isc_event_free(&event);
clear_query(query);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;

if (sevent->result != ISC_R_SUCCESS) {
   if (sevent->result == ISC_R_CANCELED) {
      debug("in recv cancel handler");
      query->waiting_connect = false;
   } else {
      printf(";; communications error: %s\n",
      isc_result_totext(sevent->result));
      if (keep != NULL)
         isc_socket_detach(&keep);
      isc_socket_detach(&query->sock);
      sockcount--;
      debug("sockcount=%d", sockcount);
      INSIST(sockcount >= 0);
   }
   if (sevent->result == ISC_R_EOF && l->eoferr == 0U) {
      n = requeue_lookup(l, true);
      n->eoferr++;
   }
   isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
if (!l->tcp_mode &&
   !isc_sockaddr_compare(&sevent->address, &query->sockaddr,
   ISC_SOCKADDR_CMPADDR|
   ISC_SOCKADDR_CMPPORT|
   ISC_SOCKADDR_CMPSCOPE|
   ISC_SOCKADDR_CMPSCOPEZERO)) {
   char buf1[ISC_SOCKADDR_FORMATSIZE];
   char buf2[ISC_SOCKADDR_FORMATSIZE];
isc_sockaddr_t any;

if (isc_sockaddr_pf(&query->sockaddr) == AF_INET)
    isc_sockaddr_any(&any);
else
    isc_sockaddr_any6(&any);

/*
 * We don't expect a match when the packet is
 * sent to 0.0.0.0, :: or to a multicast addresses.
 * XXXMPA broadcast needs to be handled here as well.
 */
if (!isc_sockaddr_eqaddr(&query->sockaddr, &any) &&
    !isc_sockaddr_ismulticast(&query->sockaddr) ||
    isc_sockaddr_getport(&query->sockaddr) !=
    isc_sockaddr_getport(&sevent->address)) {
    isc_sockaddr_format(&sevent->address, buf1,
            sizeof(buf1));
    isc_sockaddr_format(&query->sockaddr, buf2,
            sizeof(buf2));
    printf(";; reply from unexpected source: %s,
" "expected %s\n", buf1, buf2);
    match = false;
}

result = dns_message_peekheader(b, &id, &msgflags);
if (result != ISC_R_SUCCESS || l->sendmsg->id != id) {
    match = false;
    if (l->tcp_mode) {
        bool fail = true;
        if (result == ISC_R_SUCCESS) {
            if (!query->first_soa_rcvd ||
                query->warn_id)
                printf(";; WARNING: ID mismatch: ".
                        "expected ID %u, got %u\n",
                        query->first_soa_rcvd ?
                        "ERROR",
                        l->sendmsg->id, id);
            if (query->first_soa_rcvd)
                fail = false;
            query->warn_id = false;
        } else
            printf(";; ERROR: short ".
                    "(< header size) message\n%");
        if (fail) {
            isc_event_free(&event);
            clear_query(query);
        }
    } else
        printf(";; ERROR: short ".
            "(< header size) message\n%");
        if (fail) {
            isc_event_free(&event);
            clear_query(query);
        }
}
cancel_lookup(l);
    check_next_lookup(l);
    UNLOCK_LOOKUP;
    return;
}
match = true;
} else if (result == ISC_R_SUCCESS)
    println(";; Warning: ID mismatch:
    "expected ID %u, got %u\n", l->sendmsg->id, id);
else
    println(";; Warning: short "
    "(< header size) message received\n");
}
if (result == ISC_R_SUCCESS && (msgflags & DNS_MESSAGEFLAG_QR) == 0)
    println(";; Warning: query response not set\n");
if (!match)
    goto udp_mismatch;
result = dns_messagecreate(mctx, DNS_MESSAGE_INTENTPARSE, &msg);
check_result(result, "dns_messagecreate");

if (tsigkey != NULL) {
    if (l->querysig == NULL) {
        debug("getting initial querysig");
        result = dns_message_getquerytsig(l->sendmsg, mctx,
            &l->querysig);
        check_result(result, "dns_message_getquerytsig");
    }
    result = dns_message_setquerytsig(msg, l->querysig);
    check_result(result, "dns_message_setquerytsig");
    result = dns_message_settsigkey(msg, tsigkey);
    check_result(result, "dns_message_settsigkey");
    msg->tsigctx = l->tsigctx;
    l->tsigctx = NULL;
    if (l->msgcounter != 0)
        msg->tcp_continuation = 1;
    l->msgcounter++;
}

    debug("before parse starts");
    parseflags = DNS_MESSAGEPARSE_PRESERVEORDER;
    #ifdef DIG_SIGCHASE
    if (!l->sigchase) {
        do_sigchase = false;
    } else {
        parseflags = 0;
    }
do_sigchase = true;

#endif
if (l->besteffort) {
    parseflags |= DNS_MESSAGEPARSE_BESTEFFORT;
    parseflags |= DNS_MESSAGEPARSE_IGNORETRUNCATION;
} result = dns_message_parse(msg, b, parseflags);
if (result == DNS_R_RECOVERABLE) {
    printf(";; Warning: Message parser reports malformed "
        "message packet\n");
    result = ISC_R_SUCCESS;
}
if (result != ISC_R_SUCCESS) {
    printf(";; Got bad packet: %s\n", isc_result_totext(result));
    hex_dump(b);
    query->waiting_connect = false;
    dns_message_destroy(&msg);
    isc_event_free(&event);
    clear_query(query);
    cancel_lookup(l);
    check_next_lookup(l);
    UNLOCK_LOOKUP;
    return;
}
if (msg->counts[DNS_SECTION_QUESTION] != 0) {
    match = true;
    for (result = dns_message_firstname(msg, DNS_SECTION_QUESTION);
        result == ISC_R_SUCCESS && match;
        result = dns_message_nextname(msg, DNS_SECTION_QUESTION)) {
        dns_name_t *name = NULL;
        for (rdataset = ISC_LIST_HEAD(name->list);
            rdataset != NULL;
            rdataset = ISC_LIST_NEXT(rdataset, link)) {
            if (l->rdtype != rdataset->type ||
                l->rdclass != rdataset->rdclass ||
                !dns_name_equal(l->name, name)) {
                char namestr[DNS_NAME_FORMATSIZE];
                char typebuf[DNS_RDATATYPE_FORMATSIZE];
                char classbuf[DNS_RDATACLASS_FORMATSIZE];
                dns_name_format(name, namestr,
                    sizeof(namestr));
                dns_rdatatype_format(rdataset->type,
                    typebuf,
sizeof(typebuf));
dns_rdataclass_format(rdataset->rdclass,
    classbuf,
    sizeof(classbuf));
printf(";; Question section mismatch: ",
    "got %s/%s/%s
",
    namestr, typebuf, classbuf);
m_match = false;
}
}
}
if (!m_match) {
dns_message_destroy(&msg);
if (l->tcp_mode) {
    isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
} else
    goto udp_mismatch;
}
}
if (msg->rcode == dns_rcode_badvers && msg->opt != NULL &&
    (newedns = ednsvers(msg->opt)) < l->edns && l->ednsneg) {
/*
 * Add minimum EDNS version required checks here if needed.
 */
if (l->comments)
    printf(";; BADVERS, retrying with EDNS version %u\n",
        (unsigned int)newedns);
    l->edns = newedns;
n = requeue_lookup(l, true);
if (l->trace && l->trace_root)
    n->rdtype = l->qrdtype;
dns_message_destroy(&msg);
isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
if ((msg->flags & DNS_MESSAGEFLAG_TC) != 0 &&
    !l->ignore && !l->tcp_mode) {
    if (l->cookie == NULL && l->sendcookie && msg->opt != NULL)
        process_opt(l, msg);
if (l->comments)
    printf(";; Truncated, retrying in TCP mode\n");
n = requeue_lookup(l, true);
n->tcp_mode = true;
if (l->trace & l->trace_root)
    n->rdtype = l->qrdtype;
dns_message_destroy(&msg);
isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
if (msg->rcode == dns_rcode_badcookie & !l->tcp_mode &
    l->sendcookie & !l->badcookie) {
    process_opt(l, msg);
    if (msg->cc_ok) {
        if (l->comments)
            printf(";; BADCOOKIE, retrying\n", l->seenbadcookie ? " in TCP mode" : "");
        n = requeue_lookup(l, true);
        if (l->seenbadcookie)
            n->tcp_mode = true;
        n->seenbadcookie = true;
        if (l->trace & l->trace_root)
            n->rdtype = l->qrdtype;
dns_message_destroy(&msg);
isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
done_process_opt = true;
}
if ((msg->rcode == dns_rcode_servfail & !l->servfail_stops) ||
    (check_ra & (msg->flags & DNS_MESSAGEFLAG_RA) == 0 & l->recurse))
{
    dig_query_t *next = ISC_LIST_NEXT(query, link);
    if (l->current_query == query)
        l->current_query = NULL;
    if (next != NULL) {
        debug("sending query \p\n", next);
        if (l->tcp_mode)
            send_tcp_connect(next);
    } else
send_udp(next);
}
/*
* If our query is at the head of the list and there
* is no next, we're the only one left, so fall
* through to print the message.
*/
if ((ISC_LIST_HEAD(l->q) != query) ||
    (ISC_LIST_NEXT(query, link) != NULL)) {
    if (l->comments)
        printf("; Got %s from %s, 
" "trying next server\n",
        msg->rcode == dns_rcode_servfail ?
        "SERVFAIL reply" :
        "recursion not available",
        query->servname);
    clear_query(query);
    check_next_lookup(l);
    dns_message_destroy(&msg);
    isc_event_free(&event);
    UNLOCK_LOOKUP;
    return;
}

if (tsigkey != NULL) {
    result = dns_tsig_verify(&query->recvbuf, msg, NULL, NULL);
    if (result != ISC_R_SUCCESS) {
        printf("; Couldn't verify signature: %s\n",
            isc_result_totext(result));
        validated = false;
    }
    l->tsigctx = msg->tsigctx;
    msg->tsigctx = NULL;
    if (l->querysig != NULL) {
        debug("freeing querysig buffer \%p", l->querysig);
        isc_buffer_free(&l->querysig);
    }
    result = dns_message_getquerytsig(msg, mctx, &l->querysig);
    check_result(result,"dns_message_getquerytsig");
}
extrabytes = isc_buffer_remaininglength(b);

dbg("after parse");
if (l->doing_xfr && l->xfr_q == NULL) {
    l->xfr_q = query;
/*

if (timeout != INT_MAX && query->timer != NULL) {
unsigned int local_timeout;

if (timeout == 0) {
if (l->tcp_mode)
local_timeout = TCP_TIMEOUT * 4;
else
local_timeout = UDP_TIMEOUT * 4;
} else {
if (timeout < (INT_MAX / 4))
local_timeout = timeout * 4;
else
local_timeout = INT_MAX;
}

d Debug("have local timeout of %d", local_timeout);
isc_interval_set(&l->interval, local_timeout, 0);
result = isc_timer_reset(query->timer,
isc_timertype_once,
NULL,
&l->interval,
false);
check_result(result, "isc_timer_reset");
}

if (!done_process_opt) {
if (l->cookie != NULL) {
if (msg->opt == NULL) {
printf(";; expected opt record in response\n");
} else {
process_opt(l, msg);
}
} else if (l->sendcookie && msg->opt != NULL) {
process_opt(l, msg);
}
}

if (!l->doing_xfr || l->xfr_q == query) {
if (msg->rcode == dns_rcode_nxdomain &&
(l->origin != NULL || l->need_search)) {
if (!next_origin(query->lookup) || showsearch) {
dighost_printmessage(query, msg, true);
dighost_received(b->used, &sevent->address, query);
}
} else if (!l->trace && !l->ns_search_only) {

}
ifdef DIG_SIGCHASE
if (!do_sigchase)
endif
dighost_printmessage(query, msg, true);
} else if (l->trace) {
    int nl = 0;
    int count = msg->counts[DNS_SECTION_ANSWER];
    debug("in TRACE code");
    if (!l->ns_search_only)
        dighost_printmessage(query, msg, true);
    l->rdtype = l->qrdtype;
    if (l->trace_root || (l->ns_search_only && count > 0)) {
        if (!l->trace_root)
            l->rdtype = dns_rdatatype_soa;
        nl = followup_lookup(msg, query,
            DNS_SECTION_ANSWER);
        l->trace_root = false;
    } else if (count == 0)
        nl = followup_lookup(msg, query,
            DNS_SECTION_AUTHORITY);
    if (nl == 0)
        docancel = true;
} else {
    debug("in NSSEARCH code");
    if (l->trace_root) {
        /*
         * This is the initial NS query.
         */
        int nl;
        l->rdtype = dns_rdatatype_soa;
        nl = followup_lookup(msg, query,
            DNS_SECTION_ANSWER);
        if (nl == 0)
            docancel = true;
        l->trace_root = false;
        usesearch = false;
    } else
        ifdef DIG_SIGCHASE
        if (!do_sigchase)
            endif
dighost_printmessage(query, msg, true);
    } endif
    ifdef DIG_SIGCHASE
    if (do_sigchase) {
chase_msg = isc_mem_allocate(mctx, sizeof(dig_message_t));
if (chase_msg == NULL) {
fatal("Memory allocation failure in %s:%d",
        __FILE__, __LINE__);}
ISC_LIST_INITANDAPPEND(chase_message_list, chase_msg, link);
if (dns_message_create(mctx, DNS_MESSAGE_INTENTPARSE, &msg_temp) != ISC_R_SUCCESS) {
fatal("dns_message_create in %s:%d",
        __FILE__, __LINE__);}
isc_buffer_usedregion(b, &r);
result = isc_buffer_allocate(mctx, &buf, r.length);
check_result(result, "isc_buffer_allocate");
result = isc_buffer_copyregion(buf, &r);
check_result(result, "isc_buffer_copyregion");
result = dns_message_parse(msg_temp, buf, 0);
isc_buffer_free(&buf);
chase_msg->msg = msg_temp;

chase_msg2 = isc_mem_allocate(mctx, sizeof(dig_message_t));
if (chase_msg2 == NULL) {
fatal("Memory allocation failure in %s:%d",
        __FILE__, __LINE__);}
ISC_LIST_INITANDAPPEND(chase_message_list2, chase_msg2, link);
chase_msg2->msg = msg;
}
#endif

#define DIG_SIGCHASE
if (l->sigchase && ISC_LIST_EMPTY(lookup_list)) {
sigchase(msg_temp);
}
#endif

if (l->pending) {
ddebug("still pending.");
if (l->doing_xfr) {


if (query != l->xfr_q) {
    dns_message_destroy(&msg);
    isc_event_free(&event);
    query->waiting_connect = false;
    UNLOCK_LOOKUP;
    return;
}
if (!docancel)
    docancel = check_for_more_data(query, msg, sevent);
if (docancel) {
    dns_message_destroy(&msg);
    clear_query(query);
    cancel_lookup(l);
    check_next_lookup(l);
} else {

    if (msg->rcode == dns_rcode_noerror || l->origin == NULL) {

#ifdef DIG_SIGCHASE
    if (!l->sigchase)
#endif
        dighost_received(b->used, &sevent->address, query);
    }

    if (!query->lookup->ns_search_only)
        query->lookup->pending = false;
    if (!query->lookup->ns_search_only ||
        query->lookup->trace_root || docancel) {
#ifdef DIG_SIGCHASE
    if (!do_sigchase)
#endif
        dns_message_destroy(&msg);
    cancel_lookup(l);
    clear_query(query);
    check_next_lookup(l);
} else {
    if (msg != NULL) {
#ifdef DIG_SIGCHASE
    if (do_sigchase)
#endif
        msg = NULL;
    else
        #endif
        dns_message_destroy(&msg);
    }
    isc_event_free(&event);
UNLOCK_LOOKUP;
return;

dig_event_t ev;
isc_socket_mutex_t *mutex = NULL;

udp_mismatch:
isc_buffer_invalidate(&query->recvbuf);
isc_buffer_init(&query->recvbuf, query->recvspace, COMMSIZE);
ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
result = isc_socket_recvv(query->sock, &query->recvlist, 1,
   global_task, recv_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
isc_event_free(&event);
UNLOCK_LOOKUP;
return;

/*%*/
/* Turn a name into an address, using system-supplied routines. This is
* used in looking up server names, etc... and needs to use system-supplied
* routines, since they may be using a non-DNS system for these lookups.
*/
isc_result_t
get_address(char *host, in_port_t myport, isc_sockaddr_t *sockaddr) {
    int count;
    isc_result_t result;
    bool is_running;

    is_running = isc_app_isrunning();
    if (is_running)
        isc_app_block();
    result = bind9_getaddresses(host, myport, sockaddr, 1, &count);
    if (is_running)
        isc_app_unblock();
    if (result != ISC_R_SUCCESS)
        return (result);
    INSIST(count == 1);

    return (ISC_R_SUCCESS);
}

int
getaddresses(dig_lookup_t *lookup, const char *host, isc_result_t *resultp) {
isc_result_t result;
isc_sockaddr_t sockaddr[2][DIG_MAX_ADDRESSES];
isc_netaddr_t netaddr;
int count, i;

dig_server_t *srv;
char tmp[ISC_NETADDR_FORMATSIZE];

result = bind9_getaddresses(host, 0, sockaddr,
   DIG_MAX_ADDRESSES, &count);
if (resultp != NULL)
  *resultp = result;
if (result != ISC_R_SUCCESS) {
  if (resultp == NULL)
    fatal("couldn't get address for '%s': %s",
        host, isc_result_totext(result));
  return (0);
}

for (i = 0; i < count; i++) {
  isc_netaddr_fromsockaddr(&netaddr, &sockaddr[i]);
  isc_netaddr_format(&netaddr, tmp, sizeof(tmp));
  srv = make_server(tmp, host);
  ISC_LIST_APPEND(lookup->my_server_list, srv, link);
}
return (count);
}

/*%
* Initiate either a TCP or UDP lookup
*/
void
do_lookup(dig_lookup_t *lookup) {
  dig_query_t *query;
  REQUIRE(lookup != NULL);

debug("do_lookup()");
  lookup->pending = true;
  query = ISC_LIST_HEAD(lookup->q);
  if (query != NULL) {
    if (lookup->tcp_mode)
      send_tcp_connect(query);
    else
      send_udp(query);
  }
}

/*%
* Start everything in action upon task startup.
*/
void
onrun_callback(isc_task_t *task, isc_event_t *event) {
UNUSED(task);

isc_event_free(&event);
LOCK_LOOKUP;
start_lookup();
UNLOCK_LOOKUP;
}

/*%
 * Make everything on the lookup queue go away. Mainly used by the
 * SIGINT handler.
 */
void cancel_all(void) {
  dig_lookup_t *l, *n;
  dig_query_t *q, *nq;

dbglue("cancel_all()"):

  LOCK_LOOKUP;
  if (free_now) {
    UNLOCK_LOOKUP;
    return;
  }
  cancel_now = true;
  if (current_lookup != NULL) {
    for (q = ISC_LIST_HEAD(current_lookup->q);
        q != NULL;
        q = nq)
      {
        nq = ISC_LIST_NEXT(q, link);
        debug("canceling pending query %p, belonging to %p",
            q, current_lookup);
        if (q->sock != NULL)
          isc_socket_cancel(q->sock, NULL,
              ISC_SOCKCANCEL_ALL);
        else
          clear_query(q);
      }
    for (q = ISC_LIST_HEAD(current_lookup->connecting);
        q != NULL;
        q = nq)
      {
        nq = ISC_LIST_NEXT(q, clink);
        debug("canceling connecting query %p, belonging to %p",
            q, current_lookup);
        if (q->sock != NULL)
          isc_socket_cancel(q->sock, NULL,
              ISC_SOCKCANCEL_ALL);
ISC_SOCKCANCEL_ALL);
else
clear_query(q);
}
}
l = ISC_LIST_HEAD(lookup_list);
while (l != NULL) {
    n = ISC_LIST_NEXT(l, link);
    ISC_LIST_DEQUEUE(lookup_list, l, link);
    try_clear_lookup(l);
l = n;
}
UNLOCK_LOOKUP;
}
/*%
 * Destroy all of the libs we are using, and get everything ready for a
 * clean shutdown.
 */
void
destroy_libs(void) {
#ifdef DIG_SIGCHASE
void * ptr;
dig_message_t *chase_msg;
#endif
#ifdef WITH_IDN_SUPPORT
isc_result_t result;
#endif
if (keep != NULL)
    isc_socket_detach(&keep);
debug("destroy_libs()");
if (global_task != NULL) {
    debug("freeing task");
    isc_task_detach(&global_task);
}
/*
 * The taskmgr_destroy() call blocks until all events are cleared
 * from the task.
 */
if (taskmgr != NULL) {
    debug("freeing taskmgr");
    isc_taskmgr_destroy(&taskmgr);
}
LOCK_LOOKUP;
REQUIRE(sockcount == 0);
REQUIRE(recvcount == 0);
REQUIRE(sendcount == 0);
INSIST(ISC_LIST_HEAD(lookup_list) == NULL);
INSIST(current_lookup == NULL);
INSIST(!free_now);

free_now = true;

lwres_conf_clear(lwctx);
lwres_context_destroy(&lwctx);

flush_server_list();

clear_searchlist();

#ifdef WITH_IDN_SUPPORT
result = dns_name_settotextfilter(NULL);
check_result(result, "dns_name_settotextfilter");
#endif
dns_name_destroy();

if (commctx != NULL) {
    debug("freeing commctx");
    isc_mempool_destroy(&commctx);
}
if (socketmgr != NULL) {
    debug("freeing socketmgr");
    isc_socketmgr_destroy(&socketmgr);
}
if (timermgr != NULL) {
    debug("freeing timermgr");
    isc_timermgr_destroy(&timermgr);
}
if (tsigkey != NULL) {
    debug("freeing key %p", tsigkey);
    dns_tsigkey_detach(&tsigkey);
}
if (namebuf != NULL)
    isc_buffer_free(&namebuf);

if (is_dst_up) {
    debug("destroy DST lib");
    dst_lib_destroy();
    is_dst_up = false;
}
if (entp != NULL) {
    debug("detach from entropy");
    isc_entropy_detach(&entp);
}
UNLOCK_LOOKUP;
DESTROYLOCK(&lookup_lock);
#endif DIG_SIGCHASE

dbg("Destroy the messages kept for sigchase");
/* Destroy the messages kept for sigchase */
chase_msg = ISC_LIST_HEAD(chase_message_list);

while (chase_msg != NULL) {
    INSIST(chase_msg->msg != NULL);
    dns_message_destroy(&chase_msg->msg);
    ptr = chase_msg;
    chase_msg = ISC_LIST_NEXT(chase_msg, link);
    isc_mem_free(mctx, ptr);
}

chase_msg = ISC_LIST_HEAD(chase_message_list2);

while (chase_msg != NULL) {
    INSIST(chase_msg->msg != NULL);
    dns_message_destroy(&chase_msg->msg);
    ptr = chase_msg;
    chase_msg = ISC_LIST_NEXT(chase_msg, link);
    isc_mem_free(mctx, ptr);
}
#if DIG_SIGCHASE_TD
if (dns_name_dynamic(&chase_current_name))
    free_name(&chase_current_name);
#endif
#if DIG_SIGCHASE_BU
if (dns_name_dynamic(&chase_authority_name))
    free_name(&chase_authority_name);
#endif

#endif

dbg("Removing log context");
isc_log_destroy(&lctx);

dbg("Destroy memory");
if (memdebugging != 0)
    isc_mem_stats(mctx, stderr);
if (mctx != NULL)
    isc_mem_destroy(&mctx);
ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t
output_filter(isc_buffer_t *buffer, unsigned int used_org,
    bool absolute)
{
    char tmp1[MAXDLEN], tmp2[MAXDLEN];
    size_t fromlen, tolen;
    bool end_with_dot;
    isc_result_t result;

    /*
     * Copy contents of 'buffer' to 'tmp1', supply trailing dot
     * if 'absolute' is true, and terminate with NUL.
     */
    fromlen = isc_buffer_usedlength(buffer) - used_org;
    if (fromlen >= MAXDLEN)
        return (ISC_R_SUCCESS);
    memmove(tmp1, (char *)isc_buffer_base(buffer) + used_org, fromlen);
    end_with_dot = (tmp1[fromlen - 1] == '.') ? true : false;
    if (absolute && !end_with_dot) {
        fromlen++;
        if (fromlen >= MAXDLEN)
            return (ISC_R_SUCCESS);
        tmp1[fromlen - 1] = '.';
    }
    tmp1[fromlen] = '\0';

    /*
     * Convert contents of 'tmp1' to local encoding.
     */
    result = idn_ace_to_locale(tmp1, tmp2, sizeof(tmp2));
    if (result != ISC_R_SUCCESS) {
        return (ISC_R_SUCCESS);
    }

    /*
     * Copy the converted contents in 'tmp1' back to 'buffer'.
     * If we have appended trailing dot, remove it.
     */
    tolen = strlen(tmp2);
    if (absolute && !end_with_dot && tmp2[tolen - 1] == '.
        tolen--;

    if (isc_buffer_length(buffer) < used_org + tolen)
        return (ISC_R_NOSPACE);

}
isc_buffer_subtract(buffer, isc_buffer_usedlength(buffer) - used_org);
memmove(isc_buffer_used(buffer), tmp2, tolen);
isc_buffer_add(buffer, (unsigned int)tolen);

return (ISC_R_SUCCESS);
}
#endif

#ifdef WITH_IDN_SUPPORT
#ifdef WITH_IDNKIT
static void
idnkit_check_result(idn_result_t result, const char *msg) {
if (result != idn_success) {
fatal("%s: %s", msg, idn_result_tostring(result));
}
}

static void
idn_initialize(void) {
idn_result_t result;

/* Create configuration context. */
result = idn_nameinit(1);
idnkit_check_result(result, "idnkit api initialization failed");
return (ISC_R_SUCCESS);
}

static isc_result_t
idn_locale_to_ace(const char *from, char *to, size_t tolen) {
char utf8_textname[MXNAME];

result = idn_encodename(IDN_LOCALCONV | IDN_DELIMMAP, from,
utf8_textname, sizeof(utf8_textname));
idnkit_check_result(result, "idnkit idn_encodename to utf8 failed");

result = idn_encodename(idnoptions | IDN_LOCALMAP | IDN_NAMEPREP |
IDN_IDNCONV | IDN_LENCHECK,
utf8_textname, to, tolen);
idnkit_check_result(result, "idnkit idn_encodename to idn failed");
return (ISC_R_Success);
}

static isc_result_t
idn_ace_to_locale(const char *from, char *to, size_t tolen) {
idn_result_t result;
result = idn_decodename(IDN_DECODE_APP, from, to, tolen);
if (result != idn_success) {
    debug("idnkit idn_decodename failed: %s",
            idn_result_tostring(result));
    return (ISC_R_FAILURE);
}
return (ISC_R_SUCCESS);
}
#endif /* WITH_IDNKIT */

#ifdef WITH_LIBIDN2
static void
idn_initialize(void) {
}

static isc_result_t
idn_locale_to_ace(const char *from, char *to, size_t tolen) {
    int res;
    char *tmp_str = NULL;
    res = idn2_to_ascii_lz(from, &tmp_str, IDN2_NONTRANSITIONAL|IDN2_NFC_INPUT);
    if (res == IDN2_DISALLOWED) {
        res = idn2_to_ascii_lz(from, &tmp_str, IDN2_TRANSITIONAL|IDN2_NFC_INPUT);
    }
    if (res == IDN2_OK) {
        /* idn2_to_ascii_lz() normalizes all strings to lowerl case,
        * but we generally don't want to lowercase all input strings;
        * make sure to return the original case if the two strings
        * differ only in case
        */
        if (!strcasecmp(from, tmp_str)) {
            if (strlen(from) >= tolen) {
                debug("from string is too long");
                idn2_free(tmp_str);
                return ISC_R_NOSPACE;
            }
            idn2_free(tmp_str);
            (void) strlcpy(to, from, tolen);
            return ISC_R_SUCCESS;
        }
        /* check the length */
        if (strlen(tmp_str) >= tolen) {
            debug("ACE string is too long");
            idn2_free(tmp_str);
            return ISC_R_NOSPACE;
        }
    }
}
#endif
strlcpy(to, tmp_str, tolen);
idn2_free(tmp_str);
return ISC_R_SUCCESS;
}

fatal("'%s' is not a legal IDN name (%s), use +noidnin", from, idn2_strerror(res));
return ISC_R_FAILURE;
}

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t
idn_ace_to_locale(const char *from, char *to, size_t tolen) {
  int res;
  char *utf8_src, *tmp_str = NULL;

  /*
   * 1) check whether 'from' is a valid IDNA2008 name,
   * 2) if it is, output it in the current locale's character encoding.
   * Unlike idn2_to_ascii_*(), idn2_to_unicode_*() functions are unable
   * to perform IDNA2008 validity checks. Thus, we need to decode any
   * Punycode in 'from', check if the resulting name is a valid IDNA2008
   * name, and only once we ensure it is, output that name in the current
   * locale's character encoding.
   * We could just use idn2_to_unicode_8zlz() + idn2_to_ascii_lz(), but
   * then we would not be able to universally tell invalid names and
   * character encoding errors apart (if the current locale uses ASCII
   * for character encoding, the former function would fail even for a
   * valid IDNA2008 name, as long as it contained any non-ASCII
   * character). Thus, we need to take a longer route.
   * First, convert 'from' to UTF-8, ignoring the current locale.
   */
  res = idn2_to_unicode_8z8z(from, &utf8_src, 0);
  if (res != IDN2_OK) {
    fatal("Bad ACE string '%s' (%s), use +noidnout", from, idn2_strerror(res));
  }

  /*
   * Then, check whether decoded 'from' is a valid IDNA2008 name.
   */
  res = idn2_to_asciid_8zutf8_src, NULL, IDN2_NONTRANSITIONAL);
  if (res != IDN2_OK) {
fatal("%s' is not a legal IDNA2008 name (%s), use +noidnout", from, idn2_strerror(res));
}

/*
 * Finally, try converting the decoded 'from' into the current locale's
 * character encoding.
 */
res = idn2_to_unicode_8zlz(utf8_src, &tmp_str, 0);
if (res != IDN2_OK) {
fatal("Cannot represent '%s' in the current locale (%s), "
    "use +noidnout or a different locale",
    from, idn2_strerror(res));
}

/* Free the interim conversion result. */
idn2_free(utf8_src);

/* check the length */
if (strlen(tmp_str) >= tolen) {
    debug("encoded ASC string is too long");
    idn2_free(tmp_str);
    return (ISC_R_FAILURE);
}

(void) strlcpy(to, tmp_str, tolen);
idn2_free(tmp_str);
return (ISC_R_SUCCESS);
}
#endif /* WITH_IDN_OUT_SUPPORT */
#endif /* WITH_LIBIDN2 */
#endif /* WITH_IDN_SUPPORT */
#endif /* DIG_SIGCHASE */

#ifdef DIG_SIGCHASE
void
print_type(dns_rdatatype_t type)
{
    isc_buffer_t * b = NULL;
    isc_result_t result;
    isc_region_t r;

    result = isc_buffer_allocate(mctx, &b, 4000);
    check_result(result, "isc_buffer_allocate");

    result = dns_rdatatype_totext(type, b);
    check_result(result, "print_type");

    /*
isc_buffer_usedregion(b, &r);
    r.base[r.length] = '\0';

    printf("%s", r.base);

    isc_buffer_free(&b);
}

void
dump_database_section(dns_message_t *msg, int section)
{
    dns_name_t *msg_name=NULL;

    dns_rdataset_t *rdataset;

    do {
        dns_message_currentname(msg, section, &msg_name);

        for (rdataset = ISC_LIST_HEAD(msg_name->list); rdataset != NULL;
            rdataset = ISC_LIST_NEXT(rdataset, link)) {
            dns_name_print(msg_name, stdout);
            printf("\n");
            print_rdataset(msg_name, rdataset);
            printf("end\n");
        }
        msg_name = NULL;
    } while (dns_message_nextname(msg, section) == ISC_R_SUCCESS);
}

void
dump_database(void) {
    dig_message_t * msg;

    for (msg = ISC_LIST_HEAD(chase_message_list);  msg != NULL;
        msg = ISC_LIST_NEXT(msg, link)) {
        if (dns_message_firstname(msg->msg, DNS_SECTION_ANSWER)
            == ISC_R_SUCCESS)
            dump_database_section(msg->msg, DNS_SECTION_ANSWER);

        if (dns_message_firstname(msg->msg, DNSSECTION_AUTHORITY)
            == ISC_R_SUCCESS)
            dump_database_section(msg->msg, DNSSECTION_AUTHORITY);

        if (dns_message_firstname(msg->msg, DNSSECTION_ADDITIONAL)
            == ISC_R_SUCCESS)
            dump_database_section(msg->msg, DNSSECTION_ADDITIONAL);
    }
dns_rdataset_t *
search_type(dns_name_t *name, dns_rdatatype_t type, dns_rdatatype_t covers) {
  dns_rdataset_t *rdataset;
  dns_rdata_sig_t siginfo;
  dns_rdata_t sigdata = DNS_RDATA_INIT;
  isc_result_t result;
  for (rdataset = ISC_LIST_HEAD(name->list); rdataset != NULL;
    rdataset = ISC_LIST_NEXT(rdataset, link)) {
    if (type == dns_rdatatype_any) {
      if (rdataset->type != dns_rdatatype_rrsig)
        return (rdataset);
    } else if ((type == dns_rdatatype_rrsig) &&
      (rdataset->type == dns_rdatatype_rrsig)) {
      result = dns_rdataset_first(rdataset);
      check_result(result, "empty rdataset");
      dns_rdataset_current(rdataset, &sigrdata);
      result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
      check_result(result, "sigrdata tostruct siginfo");
      if ((siginfo.covered == covers) ||
      (covers == dns_rdatatype_any)) {
        dns_rdata_reset(&sigrdata);
        dns_rdata_freestruct(&siginfo);
        return (rdataset);
      }
      dns_rdata_reset(&sigrdata);
      dns_rdata_freestruct(&siginfo);
    } else if (rdataset->type == type)
      return (rdataset);
  }
  return (NULL);
}

chase_scanname_section(dns_message_t *msg, dns_name_t *name,
  dns_rdatatype_t type, dns_rdatatype_t covers,
  int section)
{
  dns_rdataset_t *rdataset;
  dns_name_t *msg_name = NULL;
  if (msg->counts[section] == 0)
    return (NULL);
do {
    dns_message_currentname(msg, section, &msg_name);
    if (dns_name_compare(msg_name, name) == 0) {
        rdataset = search_type(msg_name, type, covers);
        if (rdataset != NULL)
            return (rdataset);
    }
    msg_name = NULL;
} while (dns_message_nextname(msg, section) == ISC_R_SUCCESS);

return (NULL);
}

dns_rdataset_t *
chase_scannamex(dns_name_t *name, dns_rdatatype_t type, dns_rdatatype_t covers)
{
    dns_rdataset_t *rdataset = NULL;
    dig_message_t * msg;

    for (msg = ISC_LIST_HEAD(chase_message_list2);  msg != NULL;
        msg = ISC_LIST_NEXT(msg, link)) {
        if (dns_message_firstname(msg->msg, DNS_SECTION_ANSWER)
            == ISC_R_SUCCESS)
            rdataset = chase_scannamex_section(msg->msg, name, type, covers,
                DNS_SECTION_ANSWER);
        if (rdataset != NULL)
            return (rdataset);
    }
    if (dns_message_firstname(msg->msg, DNS_SECTION_AUTHORITY)
        == ISC_R_SUCCESS)
        rdataset =
            chase_scannamex_section(msg->msg, name, type, covers,
                DNS_SECTION_AUTHORITY);
    if (rdataset != NULL)
        return (rdataset);
    }
    if (dns_message_firstname(msg->msg, DNS_SECTION_ADDITIONAL)
        == ISC_R_SUCCESS)
        rdataset =
            chase_scannamex_section(msg->msg, name, type, covers,
                DNS_SECTION_ADDITIONAL);

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if (rdataset != NULL)
    return (rdataset);
}
}

return (NULL);
}

dns_rdataset_t *
sigchase_scanname(dns_rdatatype_t type, dns_rdatatype_t covers,
    bool * lookedup, dns_name_t *rdata_name)
{
    dig_lookup_t *lookup;
    isc_buffer_t *b = NULL;
    isc_region_t r;
    isc_result_t result;
    dns_rdataset_t * temp;
    dns_rdatatype_t querytype;

    temp = chase_scanname(rdata_name, type, covers);
    if (temp != NULL)
        return (temp);
    if (*lookedup == true)
        return (NULL);

    lookup = clone_lookup(current_lookup, true);
    lookup->trace_root = false;
    lookup->new_search = true;

    result = isc_buffer_allocate(mctx, &b, BUFSIZE);
    check_result(result, "isc_buffer_allocate");
    result = dns_name_totext(rdata_name, false, b);
    check_result(result, "dns_name_totext");
    isc_buffer_usedregion(b, &r);
    r.base[r.length] = '\0';
    strlcpy(lookup->textname, (char*)r.base, sizeof(lookup->textname));
    isc_buffer_free(&b);

    if (type == dns_rdatatype_rrsig)
        querytype = covers;
    else
        querytype = type;

    if (querytype == 0 || querytype == 255) {
        printf("Error in the queried type: %d\n", querytype);
        return (NULL);
    }
lookup->rdtype = querytype;
lookup->rdtypeset = true;
lookup->qrdtype = querytype;
*lookedup = true;

ISC_LIST_APPEND(lookup_list, lookup, link);
printf("\n\nLaunch a query to find a RRset of type ");
print_type(type);
printf(" for zone: %s", lookup->textname);
return (NULL);
}

isc_result_t
insert_trustedkey(void *arg, dns_name_t *name, dns_rdataset_t *rdataset)
{
    isc_result_t result;
    dst_key_t *dstkey;

    UNUSED(arg);

    if (rdataset == NULL || rdataset->type != dns_rdatatype_dnskey)
        return (ISC_R_SUCCESS);

    for (result = dns_rdataset_first(rdataset);
         result == ISC_R_SUCCESS;
         result = dns_rdataset_next(rdataset)) {
        dns_rdata_t rdata = DNS_RDATA_INIT;
        isc_buffer_t b;

        dns_rdataset_current(rdataset, &rdata);
        isc_buffer_init(&b, rdata.data, rdata.length);
        isc_buffer_add(&b, rdata.length);
        if (tk_list.nb_tk >= MAX_TRUSTED_KEY)
            return (ISC_R_SUCCESS);
        dstkey = NULL;
        result = dst_key_fromdns(name, rdata.rdclass, &b, mctx, &dstkey);
        if (result != ISC_R_SUCCESS)
            continue;
        tk_list.key[tk_list.nb_tk++] = dstkey;
    }
    return (ISC_R_SUCCESS);
}

void
clean_trustedkey()
{
    int i = 0;

for (i= 0; i < MAX_TRUSTED_KEY; i++) {
    if (tk_list.key[i] != NULL) {
        dst_key_free(&tk_list.key[i]);
        tk_list.key[i] = NULL;
    } else
        break;
}
tk_list.nb_tk = 0;
return;
}

char alphnum[] =
    "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";

isc_result_t
removetmpkey(const char *file) {
    char *tempnamekey = NULL;
    int tempnamekeylen;
    isc_result_t result;

    tempnamekeylen = strlen(file)+10;

    tempnamekey = isc_mem_allocate(mctx, tempnamekeylen);
    if (tempnamekey == NULL)
        return (ISC_R_NOMEMORY);
    memset(tempnamekey, 0, tempnamekeylen);
    strcat(tempnamekey, file);
    strcat(tempnamekey,".key");
    isc_file_remove(tempnamekey);

    result = isc_file_remove(tempnamekey);
    isc_mem_free(mctx, tempnamekey);
    return (result);
}

isc_result_t
get_trusted_key(void) { 
    isc_result_t result;
    isc_result_t result_t;
    const char *filename = NULL;
    dns_rdatacallbacks_t callbacks;

    result = isc_file_exists(trustedkey);
    if (result != true) {
        result = isc_file_exists("/etc/trusted-key.key");
        if (result != true) {
            /* handle error */
        }
    }
}

Open Source Used In Viptela 20.1.11515
if (result != true) {
    result = isc_file_exists("./trusted-key.key");
    if (result != true)
        return (ISC_R_FAILURE);
    else
        filename = "/trusted-key.key";
    } else
        filename = "/etc/trusted-key.key";
} else
    filename = trustedkey;

if (filename == NULL) {
    printf("No trusted key\n");
    return (ISC_R_FAILURE);
}

dns_rdatacallbacks_init_stdio(&callbacks);
callbacks.add = insert_trustedkey;
return (dns_master_loadfile(filename, dns_rootname, dns_rootname,
    current_lookup->rdclass, DNS_MASTER_NOTTL,
    &callbacks, mctx));

static void
nameFromString(const char *str, dns_name_t *p_ret) {
    size_t len = strlen(str);
    isc_result_t result;
    isc_buffer_t buffer;
    dns_fixedname_t fixedname;

    REQUIRE(p_ret != NULL);
    REQUIRE(str != NULL);

    isc_buffer_constinit(&buffer, str, len);
    isc_buffer_add(&buffer, len);
    dns_fixedname_init(&fixedname);

    result = dns_name_fromtext(dns_fixedname_name(&fixedname), &buffer,
        dns_rootname, DNS_NAME_DOWNCASE, NULL);
    check_result(result, "nameFromString");

    if (dns_name_dynamic(p_ret))
        free_name(p_ret);

    result = dns_name_dup(dns_fixedname_name(&fixedname), mctx, p_ret);
    check_result(result, "nameFromString");
}
#if DIG_SIGCHASE_TD
isc_result_t prepare_lookup(dns_name_t *name)
{
isc_result_t result;
dig_lookup_t *lookup = NULL;
dig_server_t *s;
void *ptr;

lookup = clone_lookup(current_lookup, true);
lookup->trace_root = false;
lookup->new_search = true;
lookup->trace_root_sigchase = false;

strlcpy(lookup->textname, lookup->textnamesigchase, MXNAME);

lookup->rdtype = lookup->rdtype_sigchase;
lookup->rdtypeset = true;
lookup->qrdtype = lookup->qrdtype_sigchase;

s = ISC_LIST_HEAD(lookup->my_server_list);
while (s != NULL) {
    debug("freeing server %p belonging to %p", 
            s, lookup);
    ptr = s;
    s = ISC_LIST_NEXT(s, link);
    ISC_LIST_DEQUEUE(lookup->my_server_list, 
            (dig_server_t *)ptr, link);
    isc_mem_free(mctx, ptr);
}

for (result = dns_rdataset_first(chase_nsrdataset);
    result == ISC_R_SUCCESS;
    result = dns_rdataset_next(chase_nsrdataset)) {
char namestr[DNS_NAME_FORMATSIZE];
dns_rdata_ns_t ns;
dns_rdata_t rdata = DNS_RDATA_INIT;
dig_server_t * srv = NULL;
#define __FOLLOW_GLUE__
#ifdef __FOLLOW_GLUE__
isc_buffer_t *b = NULL;
isc_region_t r;
dns_rdataset_t *rdataset = NULL;
bool t = true;
#endif

memset(namestr, 0, DNS_NAME_FORMATSIZE);

dns_rdataset_current(chase_nsrdataset, &rdata);

result = dns_rdata_tostruct(&rdata, &ns, NULL);
check_result(result, "dns_rdata_tostruct");

#ifdef __FOLLOW_GLUE__

result = advanced_rrsearch(&rdataset, &ns.name,
   dns_rdatatype_aaaa,
   dns_rdatatype_any, &t);
if (result == ISC_R_SUCCESS) {
   for (result = dns_rdataset_first(rdataset);
       result == ISC_R_SUCCESS;
       result = dns_rdataset_next(rdataset)) {
      dns_rdata_t aaaa = DNS_RDATA_INIT;
      dns_rdataset_current(rdataset, &aaaa);

      result = isc_buffer_allocate(mctx, &b, 80);
      check_result(result, "isc_buffer_allocate");

      dns_rdata_totext(&aaaa, &ns.name, b);
      isc_buffer_usedregion(b, &r);
      r.base[r.length] = '\0';
      strlcpy(namestr, (char*)r.base,
         DNS_NAME_FORMATSIZE);
      isc_buffer_free(&b);
      dns_rdata_reset(&aaaa);

      srv = make_server(namestr, namestr);

      ISC_LIST_APPEND(lookup->my_server_list,
         srv, link);
   }
}
#endif

rdataset = NULL;
result = advanced_rrsearch(&rdataset, &ns.name, dns_rdatatype_a,
   dns_rdatatype_any, &t);
if (result == ISC_R_SUCCESS) {
   for (result = dns_rdataset_first(rdataset);
       result == ISC_R_SUCCESS;
       result = dns_rdataset_next(rdataset)) {
      dns_rdata_t a = DNS_RDATA_INIT;
      dns_rdataset_current(rdataset, &a);

      srv = make_server(namestr, namestr);

      ISC_LIST_APPEND(lookup->my_server_list,
         srv, link);
   }
}
result = isc_buffer_allocate(mctx, &b, 80);
check_result(result, "isc_buffer_allocate");

dns_rdata_totext(&a, &ns.name, b);
isc_buffer_usedregion(b, &r);
r.base[r.length] = '0';
strlcpy(namestr, (char*)r.base,
DNS_NAME_FORMATSIZE);
isc_buffer_free(&b);
dns_rdata_reset(&a);
printf("ns name: %s\n", namestr);

srv = make_server(namestr, namestr);

ISC_LIST_APPEND(lookup->my_server_list,
srv, link);
}
#endif

dns_name_format(&ns.name, namestr, sizeof(namestr));
printf("ns name: ");
dns_name_print(&ns.name, stdout);
printf("\n");
srv = make_server(namestr, namestr);

ISC_LIST_APPEND(lookup->my_server_list, srv, link);

#endif
dns_rdata_freestruct(&ns);
dns_rdata_reset(&rdata);

}

ISC_LIST_APPEND(lookup_list, lookup, link);
printf("\nLaunch a query to find a RRset of type ");
print_type(lookup->rdtype);
printf(" for zone: %s", lookup->textname);
printf(" with nameservers:");
printf("\n");
print_rdataset(name, chase_nsrdataset);
return (ISC_R_SUCCESS);
}

isc_result_t
child_of_zone(dns_name_t * name, dns_name_t * zone_name, 
   dns_name_t * child_name)
{
   dns_namereln_t name_reln;
   int orderp;
   unsigned int nlabelsp;

   name_reln = dns_name_fullcompare(name, zone_name, &orderp, &nlabelsp);
   if (name_reln != dns_namereln_subdomain ||
       dns_name_countlabels(name) < dns_name_countlabels(zone_name) + 1) {
       printf("\n;\nERROR : ");
       dns_name_print(name, stdout);
       printf(" is not a subdomain of: ");
       dns_name_print(zone_name, stdout);
       printf(" FAILED\n\n");
       return (ISC_R_FAILURE);
   }

   dns_name_getlabelsequence(name, 
      dns_name_countlabels(name) -
      dns_name_countlabels(zone_name) -1, 
      dns_name_countlabels(zone_name) +1,
      child_name);
   return (ISC_R_SUCCESS);
}

isc_result_t
grandfather_pb_test(dns_name_t *zone_name, dns_rdataset_t  *sigrdataset) 
{
   dns_rdata_sig_t siginfo;
   dns_rdataset_t mysigrdataset;
   isc_result_t result;

   dns_rdataset_init(&mysigrdataset);
   dns_rdataset_clone(sigrdataset, &mysigrdataset);

   result = dns_rdataset_first(&mysigrdataset);
   check_result(result, "empty RRSIG dataset");

   do {
      dns_rdata_t sigrdata = DNS_RDATA_INIT;

      dns_rdataset_current(&mysigrdataset, &sigrdata);

      result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
      check_result(result, "sigrdata tostruct siginfo");

      if (dns_name_compare(&siginfo.signer, zone_name) == 0) 
     { 
         result = ISC_R_SUCCESS;
     
      }

      
   }
goto cleanup;
}
} while (dns_rdataset_next(&mysigrdataset) == ISC_R_SUCCESS);

result = ISC_R_FAILURE;
cleanup:
    dns_rdataset_disassociate(&mysigrdataset);
    return (result);
}

isc_result_t
initialization(dns_name_t *name)
{
    isc_result_t result;
    bool t = true;

    chase_nsrdataset = NULL;
    result = advanced_rrsearch(&chase_nsrdataset, name, dns_rdatatype_ns, 
                                dns_rdatatype_any, &t);
    if (result != ISC_R_SUCCESS) {
        printf("\n;; NS RRset is missing to continue validation:
               " FAILED\n\n";)
        return (ISC_R_FAILURE);
    }
    INSIST(chase_nsrdataset != NULL);
    prepare_lookup(name);

    dup_name(name, &chase_current_name);

    return (ISC_R_SUCCESS);
}
#endif

void
print_rdataset(dns_name_t *name, dns_rdataset_t *rdataset)
{
    isc_buffer_t *b = NULL;
    isc_result_t result;
    isc_region_t r;

    result = isc_buffer_allocate(mctx, &b, 9000);
    check_result(result, "isc_buffer_allocate");

dighost_printrdataset(name, rdataset, b);

    isc_buffer_usedregion(b, &r);
r.base[r.length] = '0';

printf("%s\n", r.base);

cache_clear(hm);
isc_buffer_free(&b);
}

void
dup_name(dns_name_t *source, dns_name_t *target) {
isc_result_t result;

if (dns_name_dynamic(target))
free_name(target);
result = dns_name_dup(source, mctx, target);
check_result(result, "dns_name_dup");
}

void
free_name(dns_name_t *name) {

dns_name_free(name, mctx);

dns_name_init(name, NULL);
}

/*
 *
 * take a DNSKEY RRset and the RRSIG RRset corresponding in parameter
 * return ISC_R_SUCCESS if the DNSKEY RRset contains a trusted_key
 * and the RRset is valid
 * return ISC_R_NOTFOUND if not contains trusted key
 * or if the RRset isn't valid
 * return ISC_R_FAILURE if problem
 *
 */
isc_result_t
contains_trusted_key(dns_name_t *name, dns_rdataset_t *rdataset,
dns_rdataset_t *sigrdataset)
{
dns_rdataset_t myrdataset;
dst_key_t *dnsseckey = NULL;
int i;
isc_result_t result;

if (name == NULL || rdataset == NULL)
return (ISC_R_FAILURE);

if (sigrdataset != NULL)
  isc_result_t result;

...
dns_rdataset_clone(rdataset, &myrdataset);
result = dns_rdataset_first(&myrdataset);
check_result(result, "empty rdataset");

do {
    dns_rdata_t rdata = DNS_RDATA_INIT;

dns_rdataset_current(&myrdataset, &rdata);
    INSIST(rdata.type == dns_rdatatype_dnskey);

    result = dns_dnssec_keyfromrdata(name, &rdata,
        mctx, &dnsseckey);
    check_result(result, "dns_dnssec_keyfromrdata");

    for (i = 0; i < tk_list.nb_tk; i++) {
        if (dst_key_compare(tk_list.key[i], dnsseckey)
            == true) {
            dns_rdata_reset(&rdata);

            printf(";; Ok, find a Trusted Key in the "
                "DNSKEY RRset: %d
            dst_key_id(dnsseckey));
            result = sigchase_verify_sig_key(name, rdataset,
                dnsseckey,
                sigrdataset);
            if (result == ISC_R_SUCCESS)
                goto cleanup;
        }
    }
    dst_key_free(&dnsseckey);
} while (dns_rdataset_next(&myrdataset) == ISC_R_SUCCESS);

result = ISC_R_NOTFOUND;

cleanup:
    if (dnsseckey != NULL)
        dst_key_free(&dnsseckey);
    dns_rdataset_disassociate(&myrdataset);

    return (result);
}

isc_result_t
sigchase_verify_sig(dns_name_t *name, dns_rdataset_t *rdataset,
    dns_rdataset_t *keyrdataset,
    dns_rdataset_t *sigrdataset)
{
dns_rdataset_t mykeyrdataset;
dst_key_t *dnsseckey = NULL;
isc_result_t result;

dns_rdataset_init(&mykeyrdataset);
dns_rdataset_clone(keyrdataset, &mykeyrdataset);

result = dns_rdataset_first(&mykeyrdataset);
check_result(result, "empty DNSKEY dataset");

do {
    dns_rdata_t keyrdata = DNS_RDATA_INIT;

    dns_rdataset_current(&mykeyrdataset, &keyrdata);
    INSIST(keyrdata.type == dns_rdatatype_dnskey);

    result = dns_dnssec_keyfromrdata(name, &keyrdata,
            mctx, &dnsseckey);
    check_result(result, "dns_dnssec_keyfromrdata");

    result = sigchase_verify_sig_key(name, rdataset, dnsseckey,
            sigrdataset);
    if (result == ISC_R_SUCCESS)
        goto cleanup;
    dst_key_free(&dnsseckey);
} while (dns_rdataset_next(&mykeyrdataset) == ISC_R_SUCCESS);

result = ISC_R_NOTFOUND;

cleanup:
if (dnsseckey != NULL)
    dst_key_free(&dnsseckey);
    dns_rdataset_disassociate(&mykeyrdataset);

return (result);
}

isc_result_t
sigchase_verify_sig_key(dns_name_t *name, dns_rdataset_t *rdataset,
dst_key_t *dnsseckey, dns_rdataset_t *sigrdataset)
{
    dns_rdata_sig_t siginfo;
    dns_rdataset_t myrdataset;
    dns_rdataset_t mysigrdataset;
    isc_result_t result;

    dns_rdataset_init(&myrdataset);
    dns_rdataset_clone(rdataset, &myrdataset);
dns_rdataset_init(&mysigrdataset);
dns_rdataset_clone(sigrdataset, &mysigrdataset);

result = dns_rdataset_first(&mysigrdataset);
check_result(result, "empty RRSIG dataset");

do {
    dns_rdata_t sigrdata = DNS_RDATA_INIT;

dns_rdataset_current(&mysigrdataset, &sigrdata);

result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
check_result(result, "sigrdata tostruct siginfo");

/*
 * Test if the id of the DNSKEY is
 * the id of the DNSKEY signer's
 */
if (siginfo.keyid == dst_key_id(dnsseckey)) {

result = dns_rdataset_first(&myrdataset);
check_result(result, "empty DS dataset");

result = dns_dnssec_verify(name, &myrdataset, dnsseckey,
false, mctx, &sigrdata);

printf(";; VERIFYING ");
print_type(rdataset->type);
printf(" RRset for ");
dns_name_print(name, stdout);
printf(" with DNSKEY: %d: %s\n", dst_key_id(dnsseckey),
    isc_result_totext(result));

if (result == ISC_R_SUCCESS)
goto cleanup;
}
} while (dns_rdataset_next(&mysigrdataset) == ISC_R_SUCCESS);

result = ISC_R_NOTFOUND;

cleanup:
dns_rdataset_disassociate(&myrdataset);
dns_rdataset_disassociate(&mysigrdataset);

return (result);
}
isc_result_t
sigchase_verify_ds(dns_name_t *name, dns_rdataset_t *keyrdataset,
          dns_rdataset_t *dsrdataset)
{
    dns_rdata_ds_t dsinfo;
    dns_rdataset_t mydsrdataset;
    dns_rdataset_t mykeyrdataset;
    dst_key_t *dnsseckey = NULL;
    isc_result_t result;
    unsigned char dsbuf[DNS_DS_BUFFERSIZE];

    dns_rdataset_init(&mydsrdataset);
    dns_rdataset_clone(dsrdataset, &mydsrdataset);
    dns_rdataset_init(&mykeyrdataset);
    dns_rdataset_clone(keyrdataset, &mykeyrdataset);

    result = dns_rdataset_first(&mydsrdataset);
    check_result(result, "empty DSset dataset");
    do {
        dns_rdata_t dsrdata = DNS_RDATA_INIT;

        dns_rdataset_current(&mydsrdataset, &dsrdata);

        result = dns_rdata_tostruct(&dsrdata, &dsinfo, NULL);
        check_result(result, "dns_rdata_tostruct for DS");

        result = dns_rdataset_first(&mykeyrdataset);
        check_result(result, "empty KEY dataset");
    }

    do {
        dns_rdata_t keyrdata = DNS_RDATA_INIT;

        dns_rdataset_current(&mykeyrdataset, &keyrdata);
        INSIST(keyrdata.type == dns_rdatatype_dnskey);

        result = dns_dnssec_keyfromrdata(name, &keyrdata,
                        &dsinfo, mctx, &dnsseckey);
        check_result(result, "dns_dnssec_keyfromrdata");

        /*
         * Test if the id of the DNSKEY is the
         * id of DNSKEY referenced by the DS
         */
        if (dsinfo.key_tag == dst_key_id(dnsseckey)) {
            dns_rdata_t newdsrdata = DNS_RDATA_INIT;

            result = dns_ds_buildrdata(name, &keyrdata,
                                &dsinfo.digest_type,
                                &dsrdata, &dsinfo, &newdsrdata,
                                &dsinfo, &dsinfo.digest_type,
                                &dsinfo, mctx, &newdsrdata);
        }
    }

    return result;
}
dsbuf, &newdsrdata);
dns_rdata_freestruct(&dsinfo);
if (result != ISC_R_SUCCESS) {
    printf("Oops: impossible to build\n"
" new DS rdata\n");
goto cleanup;
}
if (dns_rdata_compare(&dsrdata,
    &newdsrdata) == 0) {
    printf(";; OK a DS valids a DNSKEY"\n" in the RRset\n");
    printf(";; Now verify that this"\n" DNSKEY validates the"\n"DNSKEY RRset\n");
    result = sigchase_verify_sig_key(name,
        keyrdataset,
        dnsseckey,
        chase_sigkeyrdataset);
    if (result == ISC_R_SUCCESS)
        goto cleanup;
} else {
    printf(";; This DS is NOT the DS for"\n" the chasing KEY: FAILED\n");
}
dst_key_free(&dnsseckey);
} while (dns_rdataset_next(&mykeyrdataset) == ISC_R_SUCCESS);
} while (dns_rdataset_next(&mydsrdataset) == ISC_R_SUCCESS);
result = ISC_R_NOTFOUND;
cleanup:
if (dnsseckey != NULL)
dst_key_free(&dnsseckey);
dns_rdataset_disassociate(&mydsrdataset);
dns_rdataset_disassociate(&mykeyrdataset);
return (result);
}

/*
 *
* take a pointer on a rdataset in parameter and try to resolv it.
* the searched rrset is a rrset on 'name' with type 'type'
* (and if the type is a rrsig the signature cover 'covers').
* the lookedup is to known if you have already done the query on the net.
* ISC_R_SUCCESS: if we found the rrsig
* ISC_R_NOTFOUND: we do not found the rrsig in cache
* and we do a query on the net
* ISC_R_FAILURE: rrsig not found
*/

isc_result_t
advanced_rrssearch(dns_rdataset_t **rdataset, dns_name_t *name,
                dns_rdatatype_t type, dns_rdatatype_t covers,
                bool *lookedup)
{
    bool tmplookedup;

    INSIST(rdataset != NULL);

    if (*rdataset != NULL)
        return (ISC_R_SUCCESS);

    tmplookedup = *lookedup;
    if ((*rdataset = sigchase_scanname(type, covers,
                lookedup, name)) == NULL) {
        if (tmplookedup)
            return (ISC_R_FAILURE);
        return (ISC_R_NOTFOUND);
    }
    *lookedup = false;
    return (ISC_R_SUCCESS);
}

#if DIG_SIGCHASE_TD
void
sigchase_td(dns_message_t *msg)
{
    isc_result_t result;
    dns_name_t *name = NULL;
    bool have_answer = false;
    bool t = true;

    if (msg->rcode != dns_rcode_noerror &&
        msg->rcode != dns_rcode_nxdomain) {
        char buf[20];
        isc_buffer_t b;

        isc_buffer_init(&b, buf, sizeof(buf));
        result = dns_rcode_totext(msg->rcode, &b);

        have_answer = true;

        if (have_answer) {
            t = true;

            if (t)
                result = dns_rcode_totext(msg->rcode, &b);
        }
    }

    if (t)
        have_answer = true;
#endif
check_result(result, "dns_rcode_totext failed");
printf("error response code %.*s\n",
    (int)isc_buffer_usedlength(&b), buf);
error_message = msg;
return;
}

if ((result = dns_message_firstname(msg, DNS_SECTION_ANSWER)) == ISC_R_SUCCESS) {
dns_message_currentname(msg, DNS_SECTION_ANSWER, &name);
if (current_lookup->trace_root_sigchase) {
    initialization(name);
    return;
}
    have_answer = true;
} else {
    if (!current_lookup->trace_root_sigchase) {
        result = dns_message_firstname(msg, DNS_SECTION_AUTHORITY);
        if (result != ISC_R_SUCCESS) {
            printf("no answer or authority section\n");
            error_message = msg;
            return;
        }
        dns_message_currentname(msg, DNS_SECTION_AUTHORITY, &name);
        chase_nsrdataset = chase_scanname_section(msg, name,
            dns_rdatatype_ns,
            dns_rdatatype_any,
            DNS_SECTION_AUTHORITY);
        dup_name(name, &chase_authority_name);
        if (chase_nsrdataset != NULL) {
            have_delegation_ns = true;
            printf("no response but there is a delegation" 
                " in authority section: ");
            dns_name_print(name, stdout);
            printf("\n");
        } else {
            printf("no response and no delegation in " 
                "authority section but a reference" 
                " to: ");
            dns_name_print(name, stdout);
            error_message = msg;
        }
    } else {
        printf(":: NO ANSWERS: %s\n", 

isc_result_tonetext(result));
free_name(&chase_name);
clean_trustedkey();
return;
}
}

if (have_answer) {
    chase_rdataset
    = chase_scanname_section(msg, &chase_name,
        current_lookup
        ->rdtype_sigchase,
        dns_rdatatype_any,
        DNS_SECTION_ANSWER);
    if (chase_rdataset != NULL)
        have_response = true;
}

result = advanced_rrsearch(&chase_keyrdataset,
    &chase_current_name,
    dns_rdatatype_dnskey,
    dns_rdatatype_any,
    &chase_keylookedup);
if (result == ISC_R_FAILURE) {
    printf(";; DNSKEY is missing to continue validation:
        " FAILED\n\n");
goto cleanandgo;
}
if (result == ISC_R_NOTFOUND)
    return;
INSIST(chase_keyrdataset != NULL);
printf(";; DNSKEYset:\n");
print_rdataset(&chase_current_name, chase_keyrdataset);

result = advanced_rrsearch(&chase_sigkeyrdataset,
    &chase_current_name,
    dns_rdatatype_rrsig,
    dns_rdatatype_dnskey,
    &chase_sigkeylookedup);
if (result == ISC_R_FAILURE) {
    printf(";; RRSIG of DNSKEY is missing to continue validation:
        " FAILED\n\n");
goto cleanandgo;
}
if (result == ISC_R_NOTFOUND)
    return;
INSIST(chase_sigkeyrdataset != NULL);
printf(";; RRSIG of the DNSKEYset:
");
print_rdataset(&chase_current_name, chase_sigkeyrdataset);

if (!chase_dslookedup && !chase_nslookedup) {
if (!delegation_follow) {
result = contains_trusted_key(&chase_current_name,
    chase_keyrdataset,
    chase_sigkeyrdataset);
} else {
INSIST(chase_dsrdataset != NULL);
INSIST(chase_sigsrdataset != NULL);
result = sigchase_verify_ds(&chase_current_name,
    chase_keyrdataset,
    chase_dsrdataset);
}

if (result != ISC_R_SUCCESS) {
printf(";; chain of trust can't be validated:"
    " FAILED\n\n");
goto cleanandgo;
} else {
    chase_dsrdataset = NULL;
    chase_sigsrdataset = NULL;
}
}

if (have_response || (!have_delegation_ns && !have_response)) {
/* test if it's a grand father case */

if (have_response) {
result = advanced_rrsearch(&chase_sigrdataset,
    &chase_authority_name,
    dns_rdatatype_rrsig,
    current_lookup
        ->rdtype_sigchase,
    &t);
if (result == ISC_R_FAILURE) {
printf(";; RRset is missing to continue"
    " validation SHOULD NOT APPEND:"
    " FAILED\n\n");
goto cleanandgo;
}
else {
    result = advanced_rrsearch(&chase_sigrdataset,
        &chase_authority_name,
        &t);
    if (result == ISC_R_FAILURE) {
printf(";; RRset is missing to continue"
    " validation SHOULD NOT APPEND:"
    " FAILED\n\n");
        goto cleanandgo;
    }
}
}
Open Source Used In Viptela 20.1.11532

dns_rdatatype_rrsig,
dns_rdatatype_any,
&t);
if (result == ISC_R_FAILURE) {
    printf("\n;; RRSIG is missing to continue"
        " validation SHOULD NOT APPEND:"
        " FAILED\n\n");
goto cleanandgo;
}
}
result = grandfather_pb_test(&chase_current_name,
    chase_sigrdataset);
if (result != ISC_R_SUCCESS) {
dns_name_t tmp_name;
    printf("\n;; We are in a Grand Father Problem:
        " See 2.2.1 in RFC 3658\n");
    chase_rdataset = NULL;
    chase_sigrdataset = NULL;
    have_response = false;
    have_delegation_ns = false;

dns_name_init(&tmp_name, NULL);
result = child_of_zone(&chase_name, &chase_current_name,
    &tmp_name);
if (result != ISC_R_SUCCESS)
goto cleanandgo;
if (dns_name_dynamic(&chase_authority_name))
    free_name(&chase_authority_name);
    dup_name(&tmp_name, &chase_authority_name);
    printf("\n;; and we try to continue chain of trust"
        " validation of the zone: ");
    dns_name_print(&chase_authority_name, stdout);
    printf("\n");
    have_delegation_ns = true;
} else {
    if (have_response)
goto finalstep;
else
    chase_sigrdataset = NULL;
}
}

if (have_delegation_ns) {
    chase_nsrdataset = NULL;
    result = advanced_rrsearch(&chase_nsrdataset,
        dns_rdatatype_ns,
dns_rdatatype_any,
&chase_nslookedup);
if (result == ISC_R_FAILURE) {
    printf("\n;;NSset is missing to continue validation:
        " FAILED\n\n");
goto cleanandgo;
} 
if (result == ISC_R_NOTFOUND) {
    return;
}
INSIST(chase_nsrdataset != NULL);

result = advanced_rrsearch(&chase_dsrdataset,
    &chase_authority_name,
    dns_rdatatype_ds,
    dns_rdatatype_any,
    &chase_dslookedup);
if (result == ISC_R_FAILURE) {
    printf("\n;; DSset is missing to continue validation:
        " FAILED\n\n");
goto cleanandgo;
} 
if (result == ISC_R_NOTFOUND) {
    return;
}
INSIST(chase_dsrdataset != NULL);
printf("\n;; DSset:
");
print_rdataset(&chase_authority_name, chase_dsrdataset);

result = advanced_rrsearch(&chase_sigdsrdataset,
    &chase_authority_name,
    dns_rdatatype_rrsig,
    dns_rdatatype_ds,
    &t);
if (result != ISC_R_SUCCESS) {
    printf("\n;; DSset is missing to continue validation:
        " FAILED\n\n");
goto cleanandgo;
} 
printf("\n;; RRSIGset of DSset\n");
print_rdataset(&chase_authority_name, chase_sigdsrdataset);
INSIST(chase_sigdsrdataset != NULL);

result = sigchase_verify_sig(&chase_authority_name,
    chase_dsrdataset,
    chase_keyrdataset,
    chase_sigdsrdataset);
if (result != ISC_R_SUCCESS) {
    printf("\n;; Impossible to verify the DSset:"
" FAILED\n\n";
goto cleanandgo;
}
chase_keyrdataset = NULL;
chase_sigkeyrdataset = NULL;

prepare_lookup(&chase_authority_name);

have_response = false;
have_delegation_ns = false;
deblegation_follow = true;
error_message = NULL;
dup_name(&chase_authority_name, &chase_current_name);
free_name(&chase_authority_name);
return;
}

if (error_message != NULL) {
dns_rdataset_t *rdataset;
dns_rdataset_t *sigrdataset;
dns_name_t rdata_name;
isc_result_t ret = ISC_R_FAILURE;

dns_name_init(&rdata_name, NULL);
result = prove_nx(error_message, &chase_name,
    current_lookup->rdclass_sigchase,
    current_lookup->rdtype_sigchase, &rdata_name,
    &rdataset, &sigrdataset);
if (rdataset == NULL || sigrdataset == NULL ||
    dns_name_countlabels(&rdata_name) == 0) {
    printf("\n;; Impossible to verify the non-existence,"
        " the NSEC RRset can't be validated:"
        " FAILED\n\n");
goto cleanandgo;
}
ret = sigchase_verify_sig(&rdata_name, rdataset,
    chase_keyrdataset,
sigkeyrdataset);
if (ret != ISC_R_SUCCESS) {
    free_name(&rdata_name);
    printf("\n;; Impossible to verify the NSEC RR to prove"
        " the non-existence : FAILED\n\n");
goto cleanandgo;
}
free_name(&rdata_name);
if (result != ISC_R_SUCCESS) {
printf("\n; Impossible to verify the non-existence:");
    " FAILED
\n");
goto cleanandgo;
} else {
    printf("\n; OK the query doesn't have response but"
        " we have validate this fact : SUCCESS\n\n");
goto cleanandgo;
}
}

cleanandgo:
printf("\n; cleanandgo \n");
if (dns_name_dynamic(&chase_current_name))
    free_name(&chase_current_name);
if (dns_name_dynamic(&chase_authority_name))
    free_name(&chase_authority_name);
clean_trustedkey();
return;

finalstep :
result = advanced_rrsearch(&chase_rdataset, &chase_name,
    current_lookup->rtype_sigchase,
    dns_rdatatype_any ,
    &t);
if (result == ISC_R_FAILURE) {
    printf("\n; RRsig of RRset is missing to continue validation"
        " SHOULD NOT APPEND: FAILED\n\n");
goto cleanandgo;
}
result = sigchase_verify_sig(&chase_name, chase_rdataset,
    chase_keyrdataset,
    chase_sigrdataset);
if (result != ISC_R_SUCCESS) {
    printf("\n; Impossible to verify the RRset : FAILED\n\n"); /*
    printf("RRset:\n");
    print_rdataset(&chase_name , chase_rdataset);
    printf("DNSKEYset:\n");
    print_rdataset(&chase_name , chase_keyrdataset);
    printf("RRSIG of RRset:\n");
    print_rdataset(&chase_name , chase_sigrdataset);
    printf("\n");
*/
goto cleanandgo;
} else {
    printf("\n; The Answer:\n");
    print_rdataset(&chase_name , chase_rdataset);
printf("\n;; FINISH : we have validate the DNSSEC chain" 
" of trust: SUCCESS\n\n");
goto cleanandgo;
}

#endif

#if DIG_SIGCHASE_BU

isc_result_t
getneededrr(dns_message_t *msg)
{
  isc_result_t result;
  dns_name_t *name = NULL;
  dns_rdata_t sigrdata = DNS_RDATA_INIT;
  dns_rdata_sig_t siginfo;
  bool t = true;

  if ((result = dns_message_firstname(msg, DNS_SECTION_ANSWER)) 
     != ISC_R_SUCCESS) {
    printf(";; NO ANSWERS: %s\n", isc_result_totext(result));
  }
  else {
    dns_message_currentname(msg, DNS_SECTION_ANSWER, &name);
    /* What do we chase? */
    if (chase_rdataset == NULL) {
      result = advanced_rrsearch(&chase_rdataset, name,
      dns_rdatatype_any,
      dns_rdatatype_any, &t);
      if (result != ISC_R_SUCCESS) {
        printf(";; No Answers: Validation FAILED\n\n");
        return (ISC_R_NOTFOUND);
      }
      dup_name(name, &chase_name);
      printf(";; RRset to chase:\n");
      print_rdataset(&chase_name, chase_rdataset);
      }
      INSIST(chase_rdataset != NULL);
  }

  if (chase_sigrdataset == NULL) {
    result = advanced_rrsearch(&chase_sigrdataset, name,
    dns_rdatatype_any,
    dns_rdatatype_any, &t);
    if (result != ISC_R_SUCCESS) {
      printf(";; No Answers: Validation FAILED\n\n");
      return (ISC_R_NOTFOUND);
    }
    dup_name(name, &chase_name);
    printf(";; \n");
    print_rdataset(&chase_name, chase_rdataset);
    INSIST(chase_rdataset != NULL);
  }

  if (chase_sigrdataset == NULL) {

  }
/* first find the DNSKEY name */
result = dns_rdataset_first(chase_sigrdataset);
check_result(result, "empty RRSIG dataset");
dns_rdataset_current(chase_sigrdataset, &sigrdata);
result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
check_result(result, "sigrdata tostruct siginfo");
dup_name(&siginfo.signer, &chase_signame);
dns_rdata_freestruct(&siginfo);
dns_rdata_reset(&sigrdata);

/* Do we have a key? */
if (chase_keyrdataset == NULL) {
result = advanced_rrsearch(&chase_keyrdataset,
&chase_signame,
&chase_type,
&chase_lookedup);
if (result == ISC_R_FAILURE) {
printf("\n; DNSKEY is missing to continue validation:
" " FAILED\n\n");
free_name(&chase_signame);
if (dns_name_dynamic(&chase_name))
free_name(&chase_name);
return (ISC_R_NOTFOUND);
}
if (result == ISC_R_NOTFOUND) {
free_name(&chase_signame);
return (ISC_R_NOTFOUND);
}

INSIST(chase_sigrdataset != NULL);
printf("\n;; DNSKEY set that signs the RRset to chase: \n");
print_rdataset(&chase_signname, chase_keyrdataset);
}
INSIST(chase_keyrdataset != NULL);

if (chase_sigkeyrdataset == NULL) {
result = advanced_rrsearch(&chase_sigkeyrdataset,
 &chase_signname,
 dns_rdatatype_rrsig,
 dns_rdatatype_dnskey,
 &chase_sigkeylookedup);
if (result == ISC_R_FAILURE) {
printf("\n;; RRSIG for DNSKEY is missing to continue\nvalidation: FAILED\n");
free_name(&chase_signname);
if (dns_name_dynamic(&chase_name))
free_name(&chase_name);
return (ISC_R_NOTFOUND);
}
if (result == ISC_R_NOTFOUND) {
free_name(&chase_signname);
return (ISC_R_NOTFOUND);
}
printf("\n;; RRSIG of the DNSKEY set that signs the "
   "RRset to chase:\n");
print_rdataset(&chase_signname, chase_sigkeyrdataset);
}
INSIST(chase_sigkeyrdataset != NULL);

if (chase_dsrdataset == NULL) {
result = advanced_rrsearch(&chase_dsrdataset, &chase_signname,
 dns_rdatatype_ds, dns_rdatatype_any,
 &chase_dslookedup);
if (result == ISC_R_FAILURE) {
printf("\n;; WARNING There is no DS for the zone: ");
dns_name_print(&chase_signname, stdout);
printf("\n");
}
if (result == ISC_R_NOTFOUND) {
free_name(&chase_signname);
return (ISC_R_NOTFOUND);
}
if (chase_dsrdataset != NULL) {
printf("\n;; DSset of the DNSKEY set\n");
print_rdataset(&chase_signname, chase_dsrdataset);
}
if (chase_dsrdataset != NULL) {

/*
 * if there is no RRSIG of DS,
 * we don't want to search on the network
 */
result = advanced_rrsearch(&chase_sigdsrdataset,
   &chase_signame,
   dns_rdatatype_rrsig,
   dns_rdatatype_ds, &t);
if (result == ISC_R_FAILURE) {
printf(";; WARNING : NO RRSIG DS : RRSIG DS"
   " should come with DS\n");
/*
 * We continue even the DS couldn't be validated,
 * because the DNSKEY could be a Trusted Key.
 */
chase_dsrdataset = NULL;
} else {
printf("\n; RRSIG of the DSset of the DNSKEYset\n");
print_rdataset(&chase_signame, chase_sigdsrdataset);
}
}
return (1);
}

void
sigchase_bu(dns_message_t *msg)
{
isc_result_t result;
int ret;

if (tk_list.nb_tk == 0) {
result = get_trusted_key();
if (result != ISC_R_SUCCESS) {
printf("No trusted keys present\n");
return;
}
}

ret = getneededrr(msg);
if (ret == ISC_R_NOTFOUND)
return;

if (ret == ISC_R_ADDRNOTAVAIL) {

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/* We have no response */
dns_rdataset_t *rdataset;
dns_rdataset_t *sigrdataset;
dns_name_t rdata_name;
dns_name_t query_name;

dns_name_init(&query_name, NULL);
dns_name_init(&rdata_name, NULL);
nameFromString(current_lookup->textname, &query_name);

result = prove_nx(msg, &query_name, current_lookup->rdclass,
    current_lookup->rdtype, &rdata_name, &rdataset, &sigrdataset);
free_name(&query_name);
if (rdataset == NULL || sigrdataset == NULL ||
    dns_name_countlabels(&rdata_name) == 0) {
    printf("\n; Impossible to verify the Non-existence,
      " the NSEC RRset can't be validated: 
      "FAILED\n\n");
clean_trustedkey();
return;
}

if (result != ISC_R_SUCCESS) {
    printf("\n No Answers and impossible to prove the" 
      " unsecurity : Validation FAILED\n\n");
clean_trustedkey();
return;
}
printf(";: An NSEC prove the non-existence of a answers,"
      " Now we want validate this NSEC\n");

dup_name(&rdata_name, &chase_name);
free_name(&rdata_name);
chase_rdataset = rdataset;
chase_sigrdataset = sigrdataset;
chase_keyrdataset = NULL;
chase_sigkeyrdataset = NULL;
chase_dsrdataset = NULL;
chase_sigsdsrdataset = NULL;
chase_siglookedup = false;
chase_keylookedup = false;
chase_dsllookedup = false;
chase_sigsdsllookedup = false;
sigchase(msg);
clean_trustedkey();
return;
printf("\n\n;; WE HAVE MATERIAL, WE NOW DO VALIDATION\n");

result = sigchase_verify_sig(&chase_name, chase_rdataset,
   chase_keyrdataset,
   chase_sigrdataset);
if (result != ISC_R_SUCCESS) {
   free_name(&chase_name);
   free_name(&chase_signame);
   printf(";; No DNSKEY is valid to check the RRSIG"
      " of the RRset: FAILED\n");
clean_trustedkey();
return;
}
printf(";; OK We found DNSKEY (or more) to validate the RRset\n");

result = contains_trusted_key(&chase_signame, chase_keyrdataset,
   chase_sigsigkeyrdataset);
if (result == ISC_R_SUCCESS) {
   free_name(&chase_name);
   free_name(&chase_signame);
   printf(";; Ok this DNSKEY is a Trusted Key,";
      " DNSSEC validation is ok: SUCCESS\n");
clean_trustedkey();
return;
}
printf(";; Now, we are going to validate this DNSKEY by the DS\n");

if (chase_dsrdataset == NULL) {
   free_name(&chase_name);
   free_name(&chase_signame);
   printf(";; the DNSKEY isn't trusted-key and there isn't"
      " DS to validate the DNSKEY: FAILED\n");
clean_trustedkey();
return;
}

result =  sigchase_verify_ds(&chase_signame, chase_keyrdataset,
   chase_dsrdset);
if (result != ISC_R_SUCCESS) {
   free_name(&chase_name);
   free_name(&chase_signame);
   printf(";; ERROR no DS validates a DNSKEY in the"
      " DNSKEY RRset: FAILED\n");
clean_trustedkey();
}
return;
} else
printf(";; OK this DNSKEY (validated by the DS) validates"
    " the RRset of the DNSKEYs, thus the DNSKEY validates"
    " the RRset\n");
INSIST(chase_sigdsrdataset != NULL);

dup_name(&chase_signame, &chase_name);
free_name(&chase_signame);
chase_rdataset = chase_dsrdataset;
chase_sigrdataset = chase_sigdsrdataset;
chase_keyrdataset = NULL;
chase_sigkeyrdataset = NULL;
chase_dsrdataset = NULL;
chase_sigsrdataset = NULL;
chase_siglookedup = chase_keylookedup = false;
chase_dslookedup = chase_sigslookedup = false;

printf(";; Now, we want to validate the DS : recursive call\n");
sigchase(msg);
return;
} #endif

void
sigchase(dns_message_t *msg) {
#if DIG_SIGCHASE_TD
if (current_lookup->do_topdown) {
    sigchase_td(msg);
    return;
} #endif
#if DIG_SIGCHASE_BU
    sigchase_bu(msg);
    return;
# endif
}

/*
 * return 1 if name1 < name2
 * 0  if name1 == name2
 * -1 if name1 > name2
 * -2 if problem
 */
int
inf_name(dns_name_t *name1, dns_name_t *name2) {

dns_label_t label1;
dns_label_t label2;
unsigned int nblabel1;
unsigned int nblabel2;
int min_lum_label;
int i;
int ret = -2;

nblabel1 = dns_name_countlabels(name1);
nblabel2 = dns_name_countlabels(name2);

if (nblabel1 >= nblabel2)
    min_lum_label = nblabel2;
else
    min_lum_label = nblabel1;

for (i=1 ; i < min_lum_label; i++) {
    dns_name_getlabel(name1, nblabel1 -1 - i, &label1);
    dns_name_getlabel(name2, nblabel2 -1 - i, &label2);
    if ((ret = isc_region_compare(&label1, &label2)) != 0) {
        if (ret < 0)
            return (-1);
        else if (ret > 0)
            return (1);
    }
}

if (nblabel1 == nblabel2)
    return (0);
if (nblabel1 < nblabel2)
    return (-1);
else
    return (1);

/**
 *
 *
 */
isc_result_t
prove_nx_domain(dns_message_t *msg,
dns_name_t *name,
dns_name_t *rdata_name,
dns_rdataset_t **rdataset,
dns_rdataset_t **sigrdataset)
isc_result_t ret = ISC_R_FAILURE;
isc_result_t result = ISC_R_NOTFOUND;
dns_rdataset_t *nsecset = NULL;
dns_rdataset_t *signsecset = NULL;
dns_rdata_t nsec = DNS_RDATA_INIT;
dns_name_t *nsecname;
dns_rdata_nsec_t nsecstruct;

if ((result = dns_message_firstname(msg, DNS_SECTION_AUTHORITY))
    != ISC_R_SUCCESS) {
    printf(";; nothing in authority section : impossible to" 
        " validate the non-existence : FAILED\n");
    return (ISC_R_FAILURE);
}

do {
    nsecname = NULL;
    dns_message_currentname(msg, DNS_SECTION_AUTHORITY, &nsecname);
    nsecset = search_type(nsecname, dns_rdatatype_nsec, 
        dns_rdatatype_any);
    if (nsecset == NULL)
        continue;

    printf("There is a NSEC for this zone in the"
        " AUTHORITY section:\n");
    print_rdataset(nsecname, nsecset);

    for (result = dns_rdataset_first(nsecset);
        result == ISC_R_SUCCESS;
        result = dns_rdataset_next(nsecset)) {
        dns_rdataset_current(nsecset, &nsec);
        signsecset
            = chase_scanname_section(msg, nsecname, 
            dns_rdatatype_rrsig, 
            dns_rdatatype_nsec, 
            DNS_SECTION_AUTHORITY);
        if (signsecset == NULL) {
            printf(";; no RRSIG NSEC in authority section:" 
                " impossible to validate the " 
                "non-existence: FAILED\n");
            return (ISC_R_FAILURE);
        }

        ret = dns_rdata_tostruct(&nsec, &nsecstruct, NULL);
        check_result(ret,"dns_rdata_tostruct");

        if ((inf_name(nsecname, &nsecstruct.next) == 1 &&
inf_name(name, &nsecstruct.next) == 1) ||
  (inf_name(name, nsecname) == 1 &&
  inf_name(&nsecstruct.next, name) == 1)) {
  dns_rdata_freestruct(&nsecstruct);
  *rdataset = nsecset;
  *sigrdataset = signsecset;
  dup_name(nsecname, rdata_name);
  return (ISC_R_SUCCESS);
}

dns_rdata_freestruct(&nsecstruct);
  dns_rdata_reset(&nsec);
}
} while (dns_message_nextname(msg, DNS_SECTION_AUTHORITY)
  == ISC_R_SUCCESS);

*rdataset = NULL;
*sigrdataset = NULL;
rdata_name = NULL;
return (ISC_R_FAILURE);
}

/**
 *
 *
 *
 */
isc_result_t
prove_nx_type(dns_message_t *msg, dns_name_t *name, dns_rdataset_t *nsecset,
  dns_rdataclass_t rdclass, dns_rdatatype_t type,
  dns_name_t *rdata_name, dns_rdataset_t **rdataset,
  dns_rdataset_t **sigrdataset)
{
  isc_result_t ret;
  dns_rdataset_t *signsecset;
  dns_rdata_t nsec = DNS_RDATA_INIT;

  UNUSED(rdclass);

  ret = dns_rdataset_first(nsecset);
  check_result(ret, "dns_rdataset_first");

  dns_rdataset_current(nsecset, &nsec);

  ret = dns_nsec_typepresent(&nsec, type);
if (ret == ISC_R_SUCCESS)
printf("OK the NSEC said that the type doesn't exist \n");

signsecset = chase_scannamename_section(msg, name,
   dns_rdatatype_rrsig,
   dns_rdatatype_nsec,
   DNS_SECTION_AUTHORITY);
if (signsecset == NULL) {
   printf("There isn't RRSIG NSEC for the zone \n");
   return (ISC_R_FAILURE);
}
dup_name(name, rdata_name);
*rdataset = nsecset;
*sigrdataset = signsecset;
return (ret);
}

/**
 *
 *
 */
isc_result_t
prove_nx(dns_message_t *msg, dns_name_t *name, dns_rdataclass_t rdclass,
   dns_rdatatype_t type, dns_name_t *rdata_name,
   dns_rdataset_t **rdataset, dns_rdataset_t **sigrdataset)
{
   isc_result_t ret;
   dns_rdataset_t *nsecset = NULL;

   printf("We want to prove the non-existence of a type of rdata %d" 
   " or of the zone: \n", type);

   if ((ret = dns_message_firstname(msg, DNS_SECTION_AUTHORITY)) != ISC_R_SUCCESS) {
      printf(";; nothing in authority section : impossible to" 
      " validate the non-existence : FAILED\n");
      return (ISC_R_FAILURE);
   }

   nsecset = chase_scannamename_section(msg, name, dns_rdatatype_nsec,
      dns_rdatatype_any,
      DNS_SECTION_AUTHORITY);
   if (nsecset != NULL) {
      printf("We have a NSEC for this zone :OK\n");
      ret = prove_nx_type(msg, name, nsecset, rdclass,
type, rdata_name, rdataset,
sigrdataset);
if (ret != ISC_R_SUCCESS) {
printf("prove_nx: ERROR type exist\n");
return (ret);
} else {
printf("prove_nx: OK type does not exist\n");
return (ISC_R_SUCCESS);
}
} else {
printf("there is no NSEC for this zone: validating 
"that the zone doesn't exist\n");
ret = prove_nx_domain(msg, name, rdata_name,
    rdataset, sigrdataset);
return (ret);
}
/* Never get here */
#endif

1.135 xz 5.2.3 0
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==================

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Maintainer: Scott Moser <scott.moser@canonical.com>
Source: https://launchpad.net/cloud-init

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BEGIN{  
  FS="";
  print "/** Do not modify this file!!  */
  ".*- buffer-read-only: t -* vi" \
  ":set ro:";
  print " It is created automatically by copying.awk."
  print " Modify copying.awk instead. <== */";
  print ""
  print "#include \"defs.h\"
  print "#include \"command.h\"
  print "#include \"gdbcmd.h\"
  print ""
  print "static void show_copying_command (char *, int);"
  print ""
  print "static void show_warranty_command (char *, int);"
  print ""
  print "void _initialize_copying (void);"
  print ""
  print "static void";
  print "show_copying_command (char *ignore, int from_tty);"
  print "[";
}

NR == 1;

Disclaimer of Warranty

if ($0 ~ /\[
if (ND)  
  printf " printf_filtered ("\n\n"; 
}

else if (ND)  
  printf " printf_filtered ("\n\n"; 

for (i = 1; i < NF; i++)
printf "%s\n");i; 

printf "%s\n")\n", $NF; 

print "}";
print "";
print "static void";
print "show_warranty_command (char *ignore, int from_tty)";
print "[";
}

END

print "]"

print "\n";
print "void"
print "_initialize_copying (void)"
print "{";
print "add_cmd ("copying", no_set_class, show_copying_command,"
      "_\("Conditions for redistributing copies of GDB\"),");"
print "add_cmd ("warranty", no_set_class, show_warranty_command,"
      "_\("Various kinds of warranty you do not have\"),");"
print "/* For old-timers, allow \"info copying\", etc. */"
print "add_info ("copying\", show_copying_command,");"
print "add_info ("warranty\", show_warranty_command,");"
print "\"\"
}
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to attach them to the start of each source file to most effectively
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This program comes with ABSOLUTELY NO WARRANTY; for details type \`show w'.
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The hypothetical commands `show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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Version 2, June 1991

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

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

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

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

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

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

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

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

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.

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.

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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 Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
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of these things:

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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to use the modified definitions.)

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Appendix: How to Apply These Terms to Your New Libraries

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ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!
#!/usr/bin/env python

# Copyright (C) 2011-2017 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
# (at your option) any later version.
This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root of the GDB source tree (NOT the gdb/ subdirectory!). The names of the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
                for filename in files:
                    relpath = "%s/%%s" % (root, filename)
if (filename in EXCLUDE_ALL_LIST
    or relpath in EXCLUDE_LIST
    or relpath in NOT_FSF_LIST
    or relpath in BY_HAND):
    # Ignore this file.
    pass
else:
    result.append(relpath)
return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    ""
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)

    for line in update_out:
        if line.endswith('u'):
            line = line[:-1]
        if line.endswith(warning_string):
            filename = line[:-warning_len]
            if may_have_copyright_notice(filename):
def may_have_copyright_notice(filename):
    
    def main ():
        
        if not os.path.isfile("gnulib/import/extra/update-copyright"): 
            print "Error: This script must be called from the gdb directory."
        
        root_dir = os.path.dirname(os.getcwd())
        os.chdir(root_dir)
        
        update_list = get_update_list()
        update_files(update_list)
        
        # Remind the user that some files need to be updated by HAND...
        if BY_HAND:
            print

    MAX_LINES = 50

    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False

main()
print "\033[31mREMINDER: The following files must be updated by hand.\033[0m"
for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
  print "  ", filename

# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (    'gdb/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnulib/import'
 )

# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
    "fdl.texi", "gpl.texi", "aclocal.m4",
 )

# The list of files to update by hand.
BY_HAND = (    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
 )

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (}
")

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.

NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb-gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/id-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/ppc-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/ppc-support.c", "sim/ppc/ppc-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/ppc_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_emeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-decode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/id-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/id-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.c", "sim/ppc/debug.h",
    "sim/ppc/hw_idc.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
    "sim/ppc/ppc_calls.c", "sim/ppc/dc-complex", "sim/ppc/id-cache.c",
    "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
    "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
    "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
    "sim/ppc/ppc-endian-n.h", "sim/ppc/filter_filename.c",
    "sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
    "sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
)
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mem.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-icache.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
@f gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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@item
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@end example

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2 November 2007
1.145 file 5.32

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1.146 zlib 1.2.11

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

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#
docs/FTL.TXT
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#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
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#
src/pcf/module.mk
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src/pcf/pcf.h
src/pcf/pcfdrivr.c
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1.151 botocore 1.10.84

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  <ResponseMetadata>
    <RequestId>6a213e4e-33a8-11df-9540-99d0768312d3</RequestId>
  </ResponseMetadata>
</AddPermissionResponse>

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<AddPermissionResponse xmlns="http://queue.amazonaws.com/doc/2012-11-05/">
  <ResponseMetadata>
    <RequestId>9a285199-c8d6-47c2-bdb2-314cb47d599d</RequestId>
  </ResponseMetadata>
</AddPermissionResponse>

{
  "ResponseMetadata": {
    "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}

1.152 python-certifi 2018.1.18

1.152.1 Available under license:

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1.153 pps-tools 1.0.2

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* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)
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1.156 rsync 3.1.3

1.157 lrzsz 0.12.20

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1.159 python-requests 2.18.4-r0

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1.160 tzdata 2018d 1

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of action, whether now known or unknown (including existing as well as</td>
<tr>
<td id="L68" class="blob-num js-line-number" data-line-number="68"></td>
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<td id="L70" class="blob-num js-line-number" data-line-number="70"></td>
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<td id="L71" class="blob-num js-line-number" data-line-number="71"></td>
<td id="LC71" class="blob-code blob-code-inner js-file-line">medium and for any number of copies, and (iv) for any purpose whatsoever,</td>
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<tr>
<td id="L72" class="blob-num js-line-number" data-line-number="72"></td>
<td id="LC72" class="blob-code blob-code-inner js-file-line">including without limitation commercial, advertising or promotional</td>
</tr>
<tr>
<td id="L73" class="blob-num js-line-number" data-line-number="73"></td>
<td id="LC73" class="blob-code blob-code-inner js-file-line">purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each</td>
</tr>
<tr>
<td id="L74" class="blob-num js-line-number" data-line-number="74"></td>
<td id="LC74" class="blob-code blob-code-inner js-file-line">member of the public at large and to the detriment of Affirmer's heirs and</td>
</tr>
<tr>
<td id="L75" class="blob-num js-line-number" data-line-number="75"></td>
<td id="LC75" class="blob-code blob-code-inner js-file-line">successors, fully intending that such Waiver shall not be subject to</td>
</tr>
<tr>
<td id="L76" class="blob-num js-line-number" data-line-number="76"></td>
<td id="LC76" class="blob-code blob-code-inner js-file-line">
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OSXAdapter

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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

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# Compress LZF

This library contains efficient implementation of LZF compression format, as well as additional helper classes that build on JDK-provided gzip (deflat) codec.

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It was started at Ning, Inc., as an official Open Source process used by
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Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor
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1.172 elfutils 0.173

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--------------------------------------------------------------------------
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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@smallexample
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@end smallexample

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@c man end

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product.
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copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
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charge under subsection 6d.

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included in conveying the object code work.

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of the particular user or of the way in which the particular user
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1.181 sshpass 1.05

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<li><a href="mailto:%20duwe@immd4.informatik.uni-erlangen.de">Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de></a> Linux port</li>
<li><a href="mailto:%20dennis@mrbill.canet.ca">Dennis Ferguson <dennis@mrbill.canet.ca></a> foundation code for NTP Version 2 as specified in RFC-1119</li>
<li><a href="mailto:%20jhay@icomtek.csir.co.za">John Hay <jhay@icomtek.csir.co.za></a> IPv6 support and testing</li>
<li><a href="mailto:%20davehart@davehart.com">Dave Hart <davehart@davehart.com></a> General maintenance, Windows port interpolation rewrite</li>
<li><a href="mailto:%20neoclock4x@linum.com">Claas Hilbrecht <neoclock4x@linum.com></a> NeoClock4X clock driver</li>
<li><a href="mailto:%20glenn@herald.usask.ca">Glenn Hollinger <glenn@herald.usask.ca></a> GOES clock driver</li>
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<li><a href="mailto:%20bj@chatham.usdesign.com">Jeff Johnson <bj@chatham.usdesign.com></a> massive prototyping overhaul</li>
<li><a href="mailto:%20Hans.Lambermont@nl.origin-it.com">Hans Lambermont <Hans.Lambermont@nl.origin-it.com></a> or <a href="mailto:H.Lambermont@chello.nl">H.Lambermont@chello.nl</a> ntpsweep</li>
<li><a href="mailto:%20phk@FreeBSD.ORG">Poul-Henning Kemp <phk@FreeBSD.ORG></a> Oncore driver (Original author)</li>
<li><a href="http://www4.informatik.uni-erlangen.de/%7ekardel">Frank Kardel</a> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</li>
<li><a href="mailto:kuehn@ntp.org">Johannes Maximilian Kuehn <kuehn@ntp.org></a> Rewrote <tt>ntpq</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt></li>
Open Source Used In Viptela 20.1.12486

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George Lindholm <lindholm@ucs.ubc.ca>
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Sandboxing (libseccomp) support</li>

<li>Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver</li>

<li>Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD</li>

</ol>

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3. Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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6. Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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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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34. [37] Louis A. Mamakos <louie@ni.umich.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <lars@n纲.diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
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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)
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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
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    type = ntp;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=`/\|sed -e 's/.*\[\[// -e 's/\]\]_*// < ../sntp/m4/version.m4`
          [ -z "$\{VERSION\}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
          echo $VERSION`;

version-value = ""/* Don't use -v as a shortcut for --version */

/*
 * HMS: man pages already have this, and texi pages can use the
 * values in sntp/include/version.texi .
 */
// doc-sub = {
  //   sub-name = version;
  //   sub-text = 's/#VERSION#/<<version>>/g';
  // };

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1.202 lxml 3.4.4

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1.207 binutils 2.30

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

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

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

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

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.
The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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1.208 py-asn1 0.4.2

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package spec

// License information for the exposed API.

//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  Name string `json:"name,omitempty"`
  URL  string `json:"url,omitempty"`
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo filesystem proc.

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/* Getopt for GNU.

NOTE: gnu_getopt is now part of the C library, so if you don't know what
"Keep this file name-space clean" means, talk to roland@gnu.ai.mit.edu
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write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330,
Boston, MA 02111-1307, USA. */
/*
* modified July 9, 1999 by mark gates <mgates@nlanr.net>
* Dec 17, 1999
*
* renamed all functions and variables by prepending "gnu_"
* removed/redid a bunch of stuff under the assumption we're
* using a modern standard C compiler.
* add #include <string.h> here for strncmp(). Originally
* it was included only under special conditions.
*
* $Id: gnu_getopt.c,v 1.1.1.1 2004/05/18 01:50:44 kgibbs Exp $
*/

#include <stdio.h>
#include <stdlib.h>
#ifndef _MSC_VER /* Visual C++ doesn't have unistd.h */
  #include <unistd.h>
#endif
#include <string.h>
#ifndef _
/* This is for other GNU distributions with internationalized messages.
   When compiling libc, the _ macro is predefined. */
#ifdef HAVE_LIBINTL_H
  #include <libintl.h>
  #define _(msgid) gettext (msgid)
#else
  #define _(msgid) (msgid)
#endif
#endif

/* This version of `gnu_getopt' appears to the caller like standard
   Unix `getopt' but it behaves differently for the user, since it
   allows the user to intersperse the options with the other
   arguments.

   As `gnu_getopt' 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.

   Setting the environment variable POSIXLY_CORRECT disables permutation.
   Then the 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. */
/* For communication from `gnu_getopt' to the caller. 
   When `gnu_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 *gnu_optarg = NULL;

/* 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 `gnu_getopt'.

   On entry to `gnu_getopt', zero means this is the first call; initialize.

   When `gnu_getopt' returns -1, this is the index of the first of the 
   non-option elements that the caller should itself scan.

   Otherwise, `gnu_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 gnu_optind = 1;

/* Formerly, initialization of gnu_getopt depended on gnu_optind==0, which 
   causes problems with re-calling gnu_getopt as programs generally don't 
   know that. */

int __gnu_getopt_initialized = 0;

/* The next char to be scanned in the option-element 
   in which the last option character we returned was found. 
   This allows us to pick up the scan where we left off.

   If this is zero, or a null string, it means resume the scan 
   by advancing to the next ARGV-element. */

static char *nextchar;

/* Callers store zero here to inhibit the error message 
   for unrecognized options. */

int gnu_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 gnu_getopt implementation. */

int gnu_optopt = '?';

/* Describe how to deal with options that follow non-option ARGV-elements.

If the caller did not specify anything,
the default is REQUIRE_ORDER if the environment variable
POSIXLY_CORRECT is defined, PERMUTE otherwise.

REQUIRE_ORDER means don't recognize them as options;
stop option processing when the first non-option is seen.
This is what Unix does.
This mode of operation is selected by either setting the environment
variable POSIXLY_CORRECT, or using `+' as the first character
of the list of option characters.

PERMUTE is the default. We permute the contents of ARGV as we scan,
so that eventually all the non-options are at the end. This allows options
to be given in any order, even with programs that were not written to
expect this.

RETURN_IN_ORDER is an option available to programs that were written
to expect options and other ARGV-elements in any order and that care about
the ordering of the two. We describe each non-option ARGV-element
as if it were the argument of an option with character code 1.
Using `-' as the first character of the list of option characters
selects this mode of operation.

The special argument `--' forces an end of option-scanning regardless
of the value of `ordering'. In the case of RETURN_IN_ORDER, only
`--' can cause `gnu_getopt' to return -1 with `gnu_optind' != ARGC. */

static enum {
    REQUIRE_ORDER, PERMUTE, RETURN_IN_ORDER
} ordering;

/* Value of POSIXLY_CORRECT environment variable. */
static char *posixly_correct;

/* Avoid depending on library functions or files
whose names are inconsistent. */

static char *
my_index( const char* str, int chr ) {
    while ( *str ) {
        if ( *str == chr )
            return(char *) str;
        str++;
    }
    return 0;
}

/* Handle permutation of arguments. */

/* Describe the part of ARGV that contains non-options that have been skipped. `first_nonopt' is the index in ARGV of the first of them; `last_nonopt' is the index after the last of them. */

static int first_nonopt;
static int last_nonopt;

/* 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,gnu_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 );

static void
exchange( char **argv ) {
    int bottom = first_nonopt;
    int middle = last_nonopt;
    int top = gnu_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. */

    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;
}
/* 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;
}
/* Exclude the moved top segment from further swapping. */
bottom += len;
}

/* Update records for the slots the non-options now occupy. */
first_nonopt += (gnu_optind - last_nonopt);
last_nonopt = gnu_optind;
}

/* Initialize the internal data when the first call is made. */
static const char *
_gnu_getopt_initialize( int argc,
    char *const * argv,
    const char *optstring );

static const char *
_gnu_getopt_initialize( int argc,
    char *const * argv,
    const char *optstring ) {
/* Start processing options with ARGV-element 1 (since ARGV-element 0
is the program name); the sequence of previously skipped
non-option ARGV-elements is empty. */

first_nonopt = last_nonopt = gnu_optind = 1;

nextchar = NULL;
posixly_correct = getenv("POSIXLY_CORRECT");

/* Determine how to handle the ordering of options and nonoptions. */

if ( optstring[0] == '-' ) {
    ordering = RETURN_IN_ORDER;
    ++optstring;
} else if ( optstring[0] == '+' ) {
    ordering = REQUIRE_ORDER;
    ++optstring;
} else if ( posixly_correct != NULL )
    ordering = REQUIRE_ORDER;
else
    ordering = PERMUTE;

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 `gnu_getopt' is called repeatedly, it returns successively each of the option characters from each of the option elements.

If `gnu_getopt' finds another option character, it returns that character, updating `gnu_optind' and `nextchar' so that the next call to `gnu_getopt' can resume the scan with the following option character or ARGV-element.

If there are no more option characters, `gnu_getopt' returns -1.
Then `gnu_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 `gnu_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 `gnu(optarg'. Two colons mean an option that wants an optional arg; if there is text in the current ARGV-element, it is returned in `gnu(optarg', otherwise `gnu(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 `=', or else the in next ARGV-element.
When `gnu_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.

The elements of ARGV aren't really const, because we permute them. But we pretend they're const in the prototype to be compatible with other systems.

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. */

int
_gnu_getopt_internal( int argc,
    char *const *argv,
    const char *optstring,
    const struct option *longopts,
    int *longind,
    int long_only ) {
    gnu_optarg = NULL;

    if ( !__gnu_getopt_initialized || gnu_optind == 0 ) {
        optstring = _gnu_getopt_initialize (argc, argv, optstring);
        gnu_optind = 1;       /* Don't scan ARGV[0], the program name. */
        __gnu_getopt_initialized = 1;
    }

    /* Test whether ARGV[gnu_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. */

    #define NONOPTION_P (argv[gnu_optind][0] != '-' || argv[gnu_optind][1] == '0')
if ( nextchar == NULL || *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 ( last_nonopt > gnu_optind )
    last_nonopt = gnu_optind;
if ( first_nonopt > gnu_optind )
    first_nonopt = gnu_optind;

if ( ordering == PERMUTE ) {
    /* If we have just processed some options following some non-options,
exchange them so that the options come first. */

    if ( first_nonopt != last_nonopt && last_nonopt != gnu_optind )
        exchange ((char **) argv);
    else if ( last_nonopt != gnu_optind )
        first_nonopt = gnu_optind;

    /* Skip any additional non-options
     and extend the range of non-options previously skipped. */

    while ( gnu_optind < argc && NONOPTION_P )
        gnu_optind++;
    last_nonopt = gnu_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 ( gnu_optind != argc && !strcmp (argv[gnu_optind], "--") ) {
    gnu_optind++;

    if ( first_nonopt != last_nonopt && last_nonopt != gnu_optind )
        exchange ((char **) argv);
    else if ( first_nonopt == last_nonopt )
        first_nonopt = gnu_optind;
    last_nonopt = argc;

    gnu_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 ( gnu_optind == argc ) {
    /* Set the next-arg-index to point at the non-options
       that we previously skipped, so the caller will digest them. */
    if ( first_nonopt != last_nonopt )
        gnu_optind = 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 ( ordering == REQUIRE_ORDER )
        return -1;
    gnu_optarg = argv[gnu_optind++];
    return 1;
}

/* We have found another option-ARGV-element.
Skip the initial punctuation. */

nextchar = (argv[gnu_optind] + 1
    + (longopts != NULL && argv[gnu_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[gnu_optind][1] == '-'
        || (long_only && (argv[gnu_optind][2] || !my_index (optstring, argv[gnu_optind][1][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 = 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, nextchar, nameend - nextchar) ) {
if ( (unsigned int) (nameend - 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
/* Second or later nonexact match found. */
ambig = 1;
}
if ( ambig && !exact ) {
if ( gnu_opterr )
fprintf (stderr, _("%s: option `%s' is ambiguous\n"),
argv[0], argv[gnu_optind]);
nextchar += strlen (nextchar);
gnu_optind++;
gnu_optopt = 0;
return '?';
}
if ( pfound != NULL ) {
option_index = indfound;
gnu_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 )
gnu_optarg = nameend + 1;
else {
if ( gnu_opterr ) {
if ( argv[gnu_optind - 1][1] == '-' ) {
/* --option */

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fprintf (stderr,
    _("%s: option `--%s' doesn't allow an argument\n"),
    argv[0], pfound->name);
} else {
    /* +option or -option */
    fprintf (stderr,
        _("%s: option `%c%s' doesn't allow an argument\n"),
        argv[0], argv[gnu_optind - 1][0], pfound->name);
    }
    }
}
nextchar += strlen (nextchar);

gnu_optopt = pfound->val;
return '?';
}
} else if ( pfound->has_arg == 1 ) {
    if ( gnu_optind < argc )
        gnu_optarg = argv[gnu_optind++];
    else {
        if ( gnu_opterr )
            fprintf (stderr,
                _("%s: option `%s' requires an argument\n"),
                argv[0], argv[gnu_optind - 1]);
        nextchar += strlen (nextchar);
        gnu_optopt = pfound->val;
        return optstring[0] == ':' ? ':' : '?';
    }
}
nextchar += strlen (nextchar);
if ( longind != NULL )
    *longind = option_index;
if ( pfound->flag ) {
    *(pfound->flag) = pfound->val;
    return 0;
}
return pfound->val;
}

/* Can't find it as a long option. If this is not gnu_getopt_long_only, 
or the option starts with `--' or is not a valid short 
option, then it's an error. 
Otherwise interpret it as a short option. */
if ( !long_only || argv[gnu_optind][1] == '-' || my_index (optstring, *nextchar) == NULL ) {
    if ( gnu_opterr ) {
        if ( argv[gnu_optind][1] == '-' )
            /* --option */
    /* --option */

fprintf (stderr, _("%s: unrecognized option `--%s\n"),
    argv[0], nextchar);
else
  /* +option or -option */
  fprintf (stderr, _("%s: unrecognized option `%c%s\n"),
    argv[0], argv[gnu_optind][0], nextchar);
}
nextchar = (char *) "";
gnu_optind++;
gnu_optopt = 0;
return '?';
}

/* Look at and handle the next short option-character. */
{
  char c = *nextchar++;
  char *temp = my_index (optstring, c);

  /* Increment `gnu_optind' when we start to process its last character. */
  if ( *nextchar == '\0' )
    ++gnu_optind;

  if ( temp == NULL || c == ':' ) {
    if ( gnu_opterr ) {
      if ( posixly_correct )
        /* 1003.2 specifies the format of this message. */
        fprintf (stderr, _("%s: illegal option -- %c\n"),
            argv[0], c);
      else
        fprintf (stderr, _("%s: invalid option -- %c\n"),
            argv[0], c);
    }
    gnu_optopt = c;
    return '?';
  }

  /* 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 ( *nextchar != '\0' ) {
gnu_optarg = nextchar;
/* If we end this ARGV-element by taking the rest as an arg,
we must advance to the next element now. */
gnu_optind++;
} else if ( gnu_optind == argc ) {
if ( gnu_opterr ) {
/* 1003.2 specifies the format of this message. */
fprintf (stderr, _("%s: option requires an argument -- %c\n"),
argv[0], c);
}
gnu_optopt = c;
if ( optstring[0] == ':' )
c = ':';
else
c = '?';
return c;
} else
/* We already incremented `gnu_optind' once;
increment it again when taking next ARGV-elt as argument. */
gnu_optarg = argv[gnu_optind++];
/* gnu_optarg is now the argument, see if it's in the
table of longopts. */
for ( nextchar = nameend = gnu_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, nextchar, nameend - nextchar) ) {
if ( (unsigned int) (nameend - nextchar) == 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
/* Second or later nonexact match found. */
ambig = 1;
}
if ( ambig && !exact ) {
if ( gnu_opterr )

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fprintf (stderr, _("%s: option `-W %s' is ambiguous\n"),
   argv[0], argv[gnu_optind]);
nextchar += strlen (nextchar);
gnu_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 )
         gnu_optarg = nameend + 1;
      else {
         if ( gnu_opterr )
            fprintf (stderr, _("%
%s: option `-W %s' doesn't allow an argument\n"),
                argv[0], pfound->name);
nextchar += strlen (nextchar);
return '?';
      }
   } else if ( pfound->has_arg == 1 ) {
      if ( gnu_optind < argc )
         gnu_optarg = argv[gnu_optind++];
      else {
         if ( gnu_opterr )
            fprintf (stderr,
                _("%s: option `-%s' requires an argument\n"),
                argv[0], argv[gnu_optind - 1]);
nextchar += strlen (nextchar);
return optstring[0] == ':' ? ':' : '?';
      }
   }
   nextchar += strlen (nextchar);
if ( longind != NULL )
   *longind = option_index;
if ( pfound->flag )
   *(pfound->flag) = pfound->val;
   return 0;
}
   return pfound->val;
}
nextchar = NULL;
return 'W';   /* Let the application handle it. */
}
if ( temp[1] == ':' ) {
/* This is an option that accepts an argument optionally. */
if ( *nextchar != '\0' ) {
    gnu_optarg = nextchar;
    gnu_optind++;
} else {
    gnu_optarg = NULL;
    nextchar = NULL;
} else {
    /* This is an option that requires an argument. */
    if ( *nextchar != '\0' ) {
        gnu_optarg = nextchar;
        /* If we end this ARGV-element by taking the rest as an arg,
         * we must advance to the next element now. */
        gnu_optind++;
    } else if ( gnu_optind == argc ) {
        if ( gnu_opterr ) {
            /* 1003.2 specifies the format of this message. */
            fprintf (stderr,
                     _("%s: option requires an argument -- %c
"),
                     argv[0], c);
        }
        gnu_optopt = c;
        if ( optstring[0] == ':' )
            c = ':';
        else
            c = '?';
    } else {
        /* We already incremented `gnu_optind' once;
         * increment it again when taking next ARGV-elt as argument. */
        gnu_optarg = argv[gnu_optind++];
        nextchar = NULL;
    }
}

return c;
}

int
gnu_getopt ( int argc,
        char *const *argv,
        const char *optstring ) {
    return _gnu_getopt_internal (argc, argv, optstring,
                                  (const struct option *) 0,
                                  (int *) 0,
                                  0);
}

#ifdef __cplusplus

} /* end extern "C" */
#endif

#ifdef TEST

/* Compile with -DTEST to make an executable for use in testing
the above definition of `gnu_getopt'. */

int main (argc, argv)
int argc;
char **argv;
{
int c;
int digit_optind = 0;

while ( 1 ) {
    int this_option_optind = gnu_optind ? gnu_optind : 1;

    c = gnu_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':
    case 'a':
        if ( ( digit_optind != 0 && digit_optind != this_option_optind )
            fprintf ( stderr, "digits occur in two different argv-elements.\n" );
            digit_optind = this_option_optind;
            fprintf ( stderr, "option %c\n", c );
            break;
        }
        break;
    case 'b':
        fprintf ( stderr, "option b\n" );
        break;
    }
}

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case 'c':
    fprintf ( stderr, "option c with value `\"%s\"\n", gnu_optarg);
    break;

case '?':
    break;

default:
    fprintf ( stderr, "?? gnu_getopt returned character code 0%o ??\n", c);
    }
}

if ( gnu_optind < argc ) {
    fprintf ( stderr, "non-option ARGV-elements: ");
    while ( gnu_optind < argc )
        fprintf ( stderr, "%s ", argv[gnu_optind++]);
    fprintf ( stderr, "\n");
}

exit (0);
}

#ifdef /* TEST */

1.214 gmp 6.1.2
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