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```
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### 1.2 libjansson4 amd64:2.9-1

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Format: [http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/](http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/)

Upstream-Name: Jansson

Upstream-Contact: Petri Lehtinen &lt;petri@digip.org&gt;

Source: [https://github.com/akheron/jansson](https://github.com/akheron/jansson)

```
Files: *
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Files: debian/*

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This package is used for testing builds of ncurses.

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Upstream Author(s):

Marcus Baker <xxx@yyy>
Joo Henrique F. Freitas <xxx@yyy>
Daniel Ferreira de Lima <xxx@yyy>
Tiago Octaviano Primini <xxx@yyy>
Thomas Nilsson <xxx@yyy>
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1.24 base-passwd 3.5.29

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Maintainer: Colin Watson <cjwatson@debian.org>

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1.25 dmidecode 3.1

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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 3a0982da308228d796df35f98d787c5c5f2bb5b6.

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

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c2f2bb5b6.

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

5. A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
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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.

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

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

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

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

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

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

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1.39 iputils s20161105

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1.40 gdb 8.0.1
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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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(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
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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FS="";
print /^#*= Do not modify this file!! "\n".*- buffer-read-only: t -.*- vi" \n":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,/^[ 	]*15\. Disclaimer of Warranty\[ ]*$/{
if ($0 == ""
{
printf " printf_filtered ("\"
print "$\n";"
}
else if ($0 ~= /^[ 	]*15\. Disclaimer of Warranty\[ ]*$/)
{  printf "  printf_filtered ("\n";  for (i = 1; i < NF; i++)    printf "%s\n";  printf "%s\n")\n";  $NF;  }
}

/*[ ]*15. Disclaimer of Warranty. */
print ""
print ""
print "static void"
print "show_warranty_command (char *ignore, int from_tty)"
print "["
}

END
print ""
print ""
print "void"
print "_initialize_copying (void)"
print "["
print " add_cmd ("copying", no_set_class, show_copying_command," print " (_("Conditions for redistributing copies of GDB.")," print " &showlist);"
print " add_cmd ("warranty", no_set_class, show_warranty_command," print " (_("Various kinds of warranty you do not have.")," print " &showlist);"
print " "
print " */ For old-timers, allow \"info copying\", etc. */
print " add_info ("copying", show_copying_command," print " (_("Conditions for redistributing copies of GDB:" print " add_info ("warranty", show_warranty_command," print " (_("Various kinds of warranty you do not have:" print " ]"" ;
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to attach them to the start of each source file to most effectively
state 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.>
Copyright (C) <year> <name of author>

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notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate
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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.

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

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
#! /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
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# (at your option) any later version.
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# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program. If not, see <http://www.gnu.org/licenses/>.
"""copyright.py
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):

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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 gnu\lib'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('
'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
    directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False

    return False

def main ():
    """The main subprogram."""
    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
    print "\033[1mREMINDER: 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'
)

# 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).
#
# 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 = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# 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/ktid.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-accefp.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(. 
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_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_eeprom.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-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-configuration.h", "sim/ppc/ld-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/ld-insn.c", "sim/ppc/inline.c",)
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_iobus.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/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-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/sim-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/pinstuctions", "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/tdc.c", "sim/ppc/mon.c", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phib.h",
"sim/ppc/device_table.c", "sim/ppc/fc.c", "sim/ppc/ff.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/ff.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/decode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-icache.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/gen.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
    gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
    Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
@c man end

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@enumerate 0
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@item
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@item
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@item
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@item
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@end enumerate

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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
state the exclusion of warranty; and each file should have at least
the `copyright` line and a pointer to where the full notice is found.

@example

@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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.

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along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end example

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

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

@example

@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end example

The hypothetical commands @samp{show w} and @samp{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`.

You should also get your employer (if you work as a programmer) or school,
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Version 3, 29 June 2007

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interface-compatible with the version that the work was made with.

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1.42 protobuf-c 1.3.0

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1.43 enum34 1.1.6

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1.44 chardet 3.0.4

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1.49 trousers 0.3.13

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1.52 py-asn1 0.4.2

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- Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
- Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
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- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules
- Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
- Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
- Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
- Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
- Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
- Steve Clift <clift@ml.csiro.au> OMEGA clock driver
- Casey Crellin <casey@cs.cco.ca> vxWorks (Tornado) port and help with target configuration
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- John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
- Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
- Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
- John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
Mike Iglesias <iglesias@uci.edu> DEC Alpha port
Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
Hans Lambermont <H.Lambermont@chello.nl> ntpsweep
Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
Frank Kardel <kardel@ntp.org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>
William L. Jones <jones@hermes.chpc.utexas.edu> SunOS 5.1 port
Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
Tom Moore <tmoore@fievel.daytonoh.nrc.com> i386 svr4 port
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Derek Mulcahy <derek@toybox.demon.co.uk> and <a href="mailto:%20d@hd.org">Dammon Hart-Davis <d@hd.org></a> ARCRON MSF clock driver
Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> SCO OpenServer port
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1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
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11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <sjbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]H.Lambermont@chello.nl ntpswEEP
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 snntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX
modifications, HPUX modifications
31. [34] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
GPS clock driver
33. [36] George Lindholm <lindholm@u.os.ubc.ca> SunOS 5.1 port
34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
code for Version 3 as specified in RFC-1305
Maintenance
37. [40] David L. Mills <mills@udel.edu> Version 4 foundation,
precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19,
22, 36
38. [41] Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon
Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code
maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for
NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock
driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast
support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock
driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase,
Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing
(libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
validated HTML documents according to the HTML DTD
References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atsoft.de
4. mailto:%20vbais@mailman1.intel.co
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6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
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32. mailto:kuehn@ntp.org
33. mailto:%20jones@hermes.chpc.utexas.edu
34. mailto:%20dkatz@cisco.com
35. mailto:%20leres@ee.lbl.gov
36. mailto:%20lindholm@ucs.ubc.ca
37. mailto:%20louie@ni.umd.edu
38. mailto:%20horinn@diku.dk
39. mailto:%20mayer@ntp.org
40. mailto:%20mills@udel.edu
41. mailto:%20moeller@gwdg1.dnet.gwdg.de
42. mailto:%20mogul@pa.dec.com
43. mailto:%20moore@fievel.daytonoh.ncr.com
44. mailto:%20kamal@whence.com
copyright = {
    date  = "1992-2017";
    owner = "The University of Delaware and Network Time Foundation";
    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    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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1.55 libyaml 0.1.6

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1.57 expat 2.2.5
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1.58 amzn-drivers-ena 1.5.0

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Appendix: How to Apply These Terms to Your New Programs

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

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1.78 libelf 0.137-8.22.58

1.78.1 Available under license:

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**1.79 hostap-utils 0.4.7**

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Ty Coon, President of Vice

That's all there is to it!

1.82 gcc 8.2.0
1.82.1 Available under license:
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.
The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Petersen(jep@mtiame.mitia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bde@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Breit Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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

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@end enumerate

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the ``copyright'' line and a pointer to where the full notice is found.

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#!/usr/bin/python
#
# Copyright (C) 2013-2018 Free Software Foundation, Inc.
#
# This script 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, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
# update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

def report (self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write (string + '
')
    self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set (['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'LICENSE3',
            'LICENSE3.LIB'])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
if extension in self.skip_extensions:
    return True

if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists (base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
       and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True

    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9]+([-0-9.,\s]*[0-9]+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w.-]*

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')
# Matches part of a year or copyright holder.
self.continuation_re = re.compile(ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile(
    # 1: 'Copyright (C)', etc.
    '([Cc]opyright'  
    '([Cc]opyright\s+\(\[Cc\]\)'  
    '([Cc]opyright\s+\%s'  
    '([Cc]opyright\s+&copy;'  
    '([Cc]opyright\s+@copyright\{\}'  
    'copyright = u"'  
    '@set\s+copyright\[\w-\]+')

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'\s*' + ranges + '.?'  
'[@value\{[^{}]*\})s*']

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\s? + name + (?:\s\s? + name + \s+))?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*\[0-9\]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile(r'copyright.*\[0-9\][0-9]',
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c|dnl ')

self.holders = { '@copying': '@copying' }

self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
canon_form = holder
self.holders[holder] = canon_form
index = holder.find ('')
while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)

    def year_range (self, years):
        year_list = [self.parse_year (year)
                     for year in self.year_re.findall (years)]
        assert len (year_list) > 0
        return (min (year_list), max (year_list))

    def set_use_quilt (self, use_quilt):
        self.use_quilt = use_quilt

    def include_year (self, year):
        assert not self.max_year
        self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        return years

        (min_year, max_year) = self.year_range (years)

        # Update the upper bound, if enabled.
        if self.max_year and not filter.is_fossilised_file (dir, filename):
max_year = max (max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end ():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break
# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match(line, match.start())
assert match

holder = match.group(4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author(dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report(pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report(pathname,
                       'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)
else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start(4)]
           + canon_form
           + line[match.end(4):])

    # Remove any 'by'
    line = line[:match.start(3)] + line[match.end(3):]

    # Update the copyright years.
    years = match.group(2).strip()
    try:
        canon_form = self.canonicalise_years(dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report(pathname, str(e))
    return (False, orig_line, next_line)
line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                            file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search (line):
                        # Leave filtered-out lines alone.
                        if not (line_filter and line_filter.match (line)):
                            match = self.copyright_re.search (line)
                            if match:
                                res = self.update_copyright (dir, filename, filter,
                                    file, line, match)
                                (this_changed, line, next_line) = res
                                changed = changed or this_changed
self.errors.report (pathname,
    'unrecognised copyright: %s'
    % line.strip())

lines.append (line)
line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
            os.fchmod (file.fileno(), mode)
    if self.use_quilt:
        subprocess.call (["quilt", 'add', pathnamel])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
            self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
            self.o_this_year)
def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    ' % sys.argv[0])
    format = '%-15s %s
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
for (dir, filter) in self.dirs:
    if (dir + os.sep).startswith (canon_dir):
        count += 1
        self.copyright.process_tree (dir, filter)
    if count == 0:
        self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#-------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
            ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',
            
            # Handled separately.
            'testsuite',
            ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',
            ])

Open Source Used In Viptela 19.3.0811
class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
            )

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True
        if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.po',
            )
class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// \(C\) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)
        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnatools')
self.add_dir('gotools')
self.add_dir('include')
# intl is imported from upstream.
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcecl')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libfortran')
# libgo is imported from upstream.
self.add_dir('libgomp')
self.add_dir('libhsail-rt')
self.add_dir('libiberty')
self.add_dir('libbitm')
self.add_dir('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libtv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcecl',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libbitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
]
GCCCmdLine().main()
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@c man end
@end ignore
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007

@c This file is intended to be included in another file.

@display
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Version 3.1, 31 March 2009

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@appendixsubsec Preamble

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* m4/ax_func_which_gethostbyname_r.m4

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That's all there is to it!
/* Definitions for BSD assembler syntax for Intel 386
 (actually AT&T syntax for insns and operands,
 adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.s' to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
define ASM_SHORT "\t.word\t"
define ASM_LONG "\t.long\t"
define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) *

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

define ASM_OUTPUT_SKIP(FILE,SIZE) \fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED\"u", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \ ( fputs (".comm ", (FILE)),\ assemble_name ((FILE), (NAME)),\ fprintf ((FILE), ",\%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \ ( fputs (".lcomm ", (FILE)),\ assemble_name ((FILE), (NAME)),\ fprintf ((FILE), ",\%u\n", (int)(ROUNDED)))
#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
( fputs(".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)));
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))

/* This is how to output an assembler line 
 that says to advance the location counter 
 to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\ 
if ((LOG)!=0) fprintf ((FILE), "\t.align \%d\n", (LOG))

/* This is how to store into the string BUF 
 the symbol_ref name of an internal numbered label where 
 PREFIX is the class of label and NUM is the number within the class. 
 This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\ 
sprintf ((BUF), "+%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

1.83 ecdsa 0.13

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1.87 python-requests 2.18.4

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

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

Before using, initialize the state by using init_genrand(seed)
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email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

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

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
   http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

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

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In 1995, Guido continued his work on Python at the Corporation for
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   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Programs

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possible use to the public, the best way to achieve this is to make it
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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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The hypothetical commands ‘show w’ and ‘show c’ should show the appropriate
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necessary. Here is a sample; alter the names:

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‘Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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

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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
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application. Therefore, Subsection 2d requires that any
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the Library into a program that is not a library.

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

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

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**Appendix: How to Apply These Terms to Your New Libraries**

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```
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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!

1.96 python-pbr 3.1.1 2.el7ost
1.96.1 Available under license:

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### 1.102 perl 5.24.4

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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>;

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

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b\d\{4\}\b/i
    or die "Copyright statement not found in perl -v output '$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\nModule-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  version: 3

1.103 file 5.32
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1.104 pps-tools 1.0.2
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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_nicstart() 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.

Open Source Used In Viptela 19.3.01315
* 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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Linus Torvalds

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That's all there is to it!
Thanks go to the following people for patches and contributions:

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Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

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for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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Felix Domke <tmbinc@elitedvb.net>
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for many bugfixes
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for the driver for the Technisat SkyStar2 PCI DVB card

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for the support of the Fujitsu-Siemens Activy budget DVB-S

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for adding support for Typhoon DVB-S budget card

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for the IR code for the ttusb-dec driver

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for the lgdt330x frontend driver, and various bugfixes

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for maintaining v4l/dvb inter-tree dependencies

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

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

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

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

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

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

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

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        Copyright (C) </xsl:call-template>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
1.113 glibc 2.27

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This is Debian GNU/Linux's prepackaged version of the rlfe program.
This package was put together by Matthias Klose <doko@debian.org>.

Upstream source:
ftp.gnu.org:/pub/gnu/readline/readline-4.3.tar.gz.

Author: Per Bothner

Copyright:

/* A front-end using readline to "cook" input lines for Kawa.
 *
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Upstream Authors:

Chet Ramey <chet.ramey@case.edu>
Jeff Solomon <jsolomon@stanford.edu> (examples/excallback.c)
Harold Levy <Harold.Levy@synopsys.com> (examples/rl-fgets.c)
Juergen Weigert <jnweiger@immd4.informatik.uni-erlangen.de> (examples/rlfe)
Michael Schroeder <mlschroe@immd4.informatik.uni-erlangen.de> (examples/rlfe)
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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (spionage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- vielfinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un506n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennady Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganauge (Gottfried.Ganussange -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
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Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
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1.118 libxml 2.9.8

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

1.120 iproute 4.14.1

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Version 3, 29 June 2007

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1.127 kmod 25

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code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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

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

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

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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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.

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

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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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1.132 iperf 2.0.5 8.0
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1.133 libgcc 1:8.2.0-1ubuntu2~18.04

1.134 libwebsockets 2.1.0

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1.135 busybox 1.27.2

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*/
#ifndef 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 */

1.137 certifi 2018.1.18
1.137.1 Available under license :
This package contains a modified version of ca-bundle.crt:

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

c-a-bundle.crt -- Bundle of CA Root Certificates

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

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

1.138 python-ndg-httpsclient 0.4.4
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1.144 diffutils 3.6

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written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
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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
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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
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A separable portion of the object code, whose source code is excluded
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>>> freebsd-base64-4.8

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

ICU License - ICU 1.8.1 and later

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1.157 oct-zip-driv 3.1.0-p5

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/*! 
 * \note
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 */

#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>
#else
#include <idn2.h>
#endif
#endif

Open Source Used In Viptela 19.3.01977
#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/rdatastruct.h>
#include <dns/rdatastruct.h>
#include <dns/rdatalist.h>
#include <dns/rdataset.h>
#include <dns/rdataclass.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

#ifndef NS_INADDRSZ
#define NS_INADDRSZ 4
#endif

#ifndef NS_IN6ADDRSZ
#define NS_IN6ADDRSZ 16
#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;
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:
*
*\li0   Everything went well, including things like NXDOMAIN
*\li1   Usage 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);
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_nlookedup = 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
 void (*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);
        }
    }
}
```c
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 = 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;

d.addr.family = AF_INET6;
r = inet_pton(AF_INET6, value, &addr.type.in);
if (r > 0) {
    /* This is a valid IPv6 address. */
    dns_fixedname_t fname;
    dns_name_t *name;
    unsigned int options = 0;

    if (ip6_int)
        options |= DNS_BYADDROPT_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("\n.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);

    /*
     * Format the arguments and write them to...
     * stderr. The nul-terminated list of arguments
     * is given as a va_list.
     */
    va_start(args, format);
    vfprintf(stderr, format, args);
    va_end(args);
    exit(1);
}
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
debug(const char *format, ...) {
va_list args;
isc_time_t t;

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

void
check_result(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 *
make_server(const char *servname, const char *userarg) {
dig_server_t *srv;

REQUIRE(servname != NULL);
debug("make_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);
}

/*%
 * Create a copy of the server list from the lwres configuration structure.
 * The dest list must have already had ISC_LIST_INIT applied.
 */

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;

    debug("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).
 */
dig_lookup_t *
make_empty_lookup(void) {
    dig_lookup_t *looknew;

debug("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->aaonly = 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->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;
}
looknew->ednsoptscnt = lookold->ednsoptscnt;
}

/*%
 * 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;

ddebug("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->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
#ifdef DIG_SIGCHASE_TD
  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;
#endif
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;

  debug("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;
deserialise("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'", 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", value, isc_result_totext(result));

prefix_parsed = true;
}

if (inet_pton(AF_INET6, buf, &in6) == 1) {
parsed = true;
isc_sockaddr_fromin6(sa, &in6, 0);
}

done:
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++) {
        strcat(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);
    strcpy(buf, hmac, sizeof(buf));
digestbits = 0;

#ifndef PK11_MD5_DISABLE
if (strncasecmp(buf, "hmac-md5", 9) == 0) {
    hmacname = DNS_TSIG_HMACMD5_NAME;
} else if (strncasecmp(buf, "hmac-md5-", 10) == 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 (strncasecmp(buf, "hmac-sha224") == 0) {
    hmacname = DNS_TSIG_HMACSHA224_NAME;
} else if (strncasecmp(buf, "hmac-sha224-", 12) == 0) {
    hmacname = DNS_TSIG_HMACSHA224_NAME;
    digestbits = parse_bits(&buf[12], "digest-bits [0..224]", 224);
} else if (strncasecmp(buf, "hmac-sha256") == 0) {
    hmacname = DNS_TSIG_HMACSHA256_NAME;
} else if (strncasecmp(buf, "hmac-sha256-", 12) == 0) {
    hmacname = DNS_TSIG_HMACSHA256_NAME;
    digestbits = parse_bits(&buf[12], "digest-bits [0..256]", 256);
} else if (strncasecmp(buf, "hmac-sha384") == 0) {
    hmacname = DNS_TSIG_HMACSHA384_NAME;
} else if (strncasecmp(buf, "hmac-sha384-", 12) == 0) {
    hmacname = DNS_TSIG_HMACSHA384_NAME;
    digestbits = parse_bits(&buf[12], "digest-bits [0..384]", 384);
} else if (strncasecmp(buf, "hmac-sha512") == 0) {
    hmacname = DNS_TSIG_HMACSHA512_NAME;
} else if (strncasecmp(buf, "hmac-sha512-", 12) == 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 *pctx = NULL;
cfg_obj_t *file = NULL;
const cfg_obj_t *keyobj = NULL;
const cfg_obj_t *secretobj = NULL;
const cfg_obj_t *algorithmobj = 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);
algorithm = 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;

    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,
        &dstkey);

    /* 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;
}
failure:
if (dstkey != NULL)
dst_key_free(&dstkey);
}
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
create_search_list(lwres_conf_t *confdata) {
int i;
dig_searchlist_t *search;

dump("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;

dbglx("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

#ifdef 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();
#ifdef 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 DIG_SIGCHASE_TD
    dns_name_init(&chase_current_name, NULL);
    dns_name_init(&chase_authority_name, NULL);
    #endif
    #if 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'.
 */

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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();
#else
    dns_result_register();
#endif

    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 */
};
static struct optnames {
    uint8_t code; /* RFC 7830 */
    char name[4]; /* shorthand */
    char value[5];
    char description[20];
    uint16_t length;
} optnames[] = {
    { 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;

    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;

    debug("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_gettemp_rdataset(message, &rdataset);
check_result(result, "dns_message_gettemp_rdataset()");
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) {
  dump("check_if_done()");
dump("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);
  dump("shutting down");
dighost_shutdown();
}
}

/*%
 * 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);

dump("clear_query(%p)", query);

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

if (lookup->current_query == query)
lookup->current_query = NULL;

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);
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);
            }
        }
    }
}

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);
    }
    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;
            }
        #endif
    }
}
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);

for (i = 0; i < tk_list.nb_tk; i++) {
    key_name = dst_key_name(tk_list.key[i]);
    /*
     * Verify temp is really the lowest
     * WARNING
     */
    dstkey = tk_list.key[i];
    if (dns_name_issubdomain(&query_name, key_name) == true)
        dstkey = tk_list.key[i];
    
    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) {
    debug("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
 * NS records in a reply. Returns the number of followup lookups made.
 */
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)
                result = ISC_R_SUCCESS;
        }
        else {
            rdataset = NULL;
            result = dns_message_findtype(name, dns_rdatatype_a,
                0, &rdataset);
            if (result == ISC_R_SUCCESS)
                result = ISC_R_SUCCESS;
        }
    }

    if (section == DNS_SECTION_AUTHORITY) {
        rdataset = NULL;
        result = dns_message_findtype(domain, dns_rdatatype_a,
            0, &rdataset);
        if (result == ISC_R_SUCCESS)
            result = ISC_R_SUCCESS;
    }
    return (0);
Open Source Used In Viptela 19.3.02021

```c
} 

rdataset = NULL;
result = dns_message_findtype(name, dns_rdatatpe_ns, 0,
   &rdataset);
if (result != ISC_R_SUCCESS)
   continue;

dbg("found NS set");

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

   query->lookup->nsfound++;
   result = dns_rdata_tostruct(&rddata, &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);
}
dump("adding server %s", namestr);
num = getaddresses(lookup, namestr, &lresult);
if (lresult != ISC_R_SUCCESS) {
    printf("couldn't get address for '%s': %s\n", namestr, isc_result_totext(lresult));
    if (addresses_result == ISC_R_SUCCESS) {
        addresses_result = lresult;
        strlcpy(bad_namestr, namestr, sizeof(bad_namestr));
    }
}
numLookups += num;
dns_rdata_reset(&rdata);
}
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;
         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);

        debug("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;
   }
cancel_lookup(oldlookup);
return (true);
}

/*%
 * Insert an SOA record into the sendmessage in a lookup. Used for
 * creating IXFR queries.
 */
static void
insert_soa(dig_lookup_t *lookup) {
isc_result_t result;
dns_rdata_soa_t soa;
Open Source Used In Viptela 19.3.02025

dns_rdata_t *rdata = NULL;
dns_rdatalist_t *rdatalist = NULL;
dns_rdataset_t *rdataset = NULL;
dns_name_t *soaname = NULL;

db ug("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_rdatatype_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->rdatabuf, lookup->rdatastore,
sizeof(lookup->rdatastore));

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

result = dns_rdata_fromstruct(rdata, lookup->rdclass,
dns_rdatatype_soa, &soa,
&lookup->rdatabuf);
check_result(result, "isc_rdata_fromstruct");

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

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

dns_rdatalist_init(rdatalist);
rdatalist->type = dns_rdatatype_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);
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);
dbg("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;
#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) {
ddebug("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");
ddebug("trying idn origin %s", idn_origin);
origin = idn_origin;
}
#endif
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) {
    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->oname);
        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");

d debug("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];
    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].length = 8;
        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");
dbg("done rendering");

dns_compress.invalidate(&cctx);

/*
 * 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__);
    dbg("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;

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) {

dig_lookup_t *l;
unsigned int local_timeout;
isc_result_t result;

debug("bringup_timer()\n");
/
* 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;
}
debug("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 ()\n");
event = isc_event_allocate(mctx, query, ISC_TIMEREVENT_IDLE,
connect_timeout, 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'", 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(l);
    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++;
dump("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
        goto search;

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
        goto search;
}
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? */
    query->waiting_connect = false;
    result = get_address(query->servname, port, &query->sockaddr);
    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_from sockaddr(&netaddr, &query->sockaddr);
        isc_netaddr_format(&netaddr, buf, sizeof(buf));
        printf(";; Skipping mapped address '%s'", 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);
        }
    }
}

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,
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);
dbd( "recving with lookup=%p, query=%p, sock=%p",
    query->lookup, query, query->sock);
result = isc_socket_recvv(query->sock, &query->recvlist, 1,
    global_task, recv_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;

db( "recvcount=%d", recvcount);
}
ISC_LIST_INIT(query->sendlist);
sendbuf = clone_buffer(&query->sendbuf);
ISC_LIST_ENQUEUE(query->sendlist, sendbuf, link);
db( "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);
}

dbg("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);
  dbg("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)) {
    /*
     * 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);

      dbg("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;
}

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) {
    puts(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.
*/

Open Source Used In Viptela 19.3.02045
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);

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);
d 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);

dbg("launch_next_query()");

if (!query->lookup->pending) {
    dbg("ignoring launch_next_query because !pending");
    isc_socket_detach(&query->sock);
    sockcount--;
    dbg("sockcount=%d", sockcount);
    INSIST(sockcount >= 0);
    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_soa_rcvd) {
    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_reccv(query->sock, &query->lengthlist, 0,
    global_task, tcp_length_done, query);
check_result(result, "isc_socket_reccv");
recvcount++;
dbg("recvcount=%d", recvcount);
if (!query->first_soa_rcvd) {
    dbg("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
 * successful, then pass into launch_next_query to actually send the
 * question.
 */
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);

ddebug("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) {
ddebug("in cancel handler");
isc_sockaddr_format(&query->sockaddr, sockstr, sizeof(sockstr));
if (query->timedout)
printf(";; Connection to %s(%s) for %s failed: %s.
sockstr, query->servname,
query->lookup->textname,
isc_result_totext(ISC_R_TIMEDOUT));
isc_socket_detach(&query->sock);
INSIST(sockcount > 0);
sockcount--;
ddebug("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) {

dump("unsuccessful connection: %s",
     isc_result_totext(sevent->result));
isc_sockaddr_format(&query->sockaddr, sockstr, sizeof(sockstr));
if (sevent->result != ISC_R_CANCELED)
    printf(":: Connection to %s(%s) for %s failed: 
", sockstr,
           query->servname, query->lookup->textname,
           isc_result_totext(sevent->result));
isc_socket_detach(&query->sock);
INSIST(sockcount > 0);
sockcount--;
/* XXX Clean up exitcodes */
if (exitcode < 9)
    exitcode = 9;
dump("sockcount=%d", sockcount);
query->waiting_connect = false;
isc_event_free(&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;
}
exitcode = 0;
if (keep_open) {
if (keep != NULL)
    isc_socket_detach(&keep);
    isc_socket_attach(query->sock, &keep);
    keepaddr = query->sockaddr;
/*%
 * 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;

Open Source Used In Viptela 19.3.02052

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);
        dns_rdataset_current(rdataset, &rdata);
        /*
         * 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. */
        debug("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)) {
    debug("got up to date 
    "response");
    goto doexit;
} goto next_rdata;
} 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_putchar(&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;
        }
    }
    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;
    #ifdef DIG_SIGCHASE
    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;
    #ifdef DIG_SIGCHASE
    isc_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);

    debug("recv_done()");

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

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

l = query->lookup;

REQUIRE(event->ev_type == ISC_SOCKEVENT_RECVDONE);
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;

g = 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;

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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(";; ID mismatch: ">
            "expected %d, got %d",
                query->first_soa_rcvd ?
            query->first_soa_rcvd,
                query->first_soa_rcvd - 1);
        }
    }
}
"WARNING" : "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);
    cancel_lookup(l);
    check_next_lookup(l);
    UNLOCK_LOOKUP;
    return;
} else if (result == ISC_R_SUCCESS)
        printf(";; Warning: ID mismatch: ",
            "expected ID %u, got %u\n", l->sendmsg->id, id);
else
        printf(";; Warning: short ",
            "(< header size) message received\n");
}

if (result == ISC_R_SUCCESS && (msgflags & DNS_MESSAGEFLAG_QR) == 0)
    printf(";; Warning: query response not set\n");

if (!match)
    goto udp_mismatch;

result = dns_message_create(mctx, DNS_MESSAGE_INTENTPARSE, &msg);
check_result(result, "dns_message_create");

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++;
}

dbog("before parse starts");
parseflags = DNS_MESSAGEPARSE_PRESERVEORDER;
#endif 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_messageFirstname(msg, DNS_SECTION_QUESTION);
result == ISC_R_SUCCESS && match;
result = dns_messageNextname(msg, DNS_SECTION_QUESTION)) {
dns_name_t *name = NULL;
dns_rdataset_t *rdataset;

dns_messageCurrentname(msg, DNS_SECTION_QUESTION,
&name);
for (rdataset = ISC_LIST_HEAD(name->list);
";"rdataset != NULL;
";"
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: \n"
           "got %s/%s/%s\n",
           namestr, typebuf, classbuf);
  match = false;
}
}

if (!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 = 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%s.
", 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);

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

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

if (l->pending)
    debug("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 (l->lookup->ns_search_only)
    query->lookup->pending = false;
if (l->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(I);
}
if (msg != NULL) {
#ifdef DIG_SIGCHASE
if (do_sigchase)
msg = NULL;
else
#endif
dns_message_destroy(&msg);
}
isc_event_free(&event);
UNLOCK_LOOKUP;
return;

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);
int getaddresses(dig_lookup_t *lookup, const char *host, isc_result_t *resultp) {
    isc_result_t result;
    isc_sockaddr_t sockaddr[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;

debug("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)
{
q = 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_SOCKET_CANCEL_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);
    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);
#ifdef 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 (dns_name_dynamic(&chase_name))
    free_name(&chase_name);
#endif
#ifdef DIG_SIGCHASE_TD
if (dns_name_dynamic(&chase_current_name))
    free_name(&chase_current_name);
if (dns_name_dynamic(&chase_authority_name))
    free_name(&chase_authority_name);
#endif
#ifdef DIG_SIGCHASE_BU
if (dns_name_dynamic(&chase_signame))
    free_name(&chase_signame);
#endif
debug("Removing log context");
isc_log_destroy(&lctx);

depbug("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);
#endif
}
/*
 * 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];

idn_result_t result;

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);
idkit_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_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;
}

(void) 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;

  /*
   * We need to:
   *
   * 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_ascii_8z(utf8_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 */
#ifdef DIG_SIGCHASE

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

if (dns_message_firstname(msg->msg, DNS_SECTION_ADDITIONAL) == ISC_R_SUCCESS)
dump_database_section(msg->msg, DNS_SECTION_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 sigrdata = 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);
            }
        } 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);
}

chase_scanname(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_scanname_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_scanname_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_scanname_section(msg->msg, name, type,
        covers,
        DNS_SECTION_ADDITIONAL);
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
Launch a query to find a RRset of type ");
print_type(type);
printf(" for zone: \%s\n", 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;
    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) {
            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);
#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->rdtype_set = 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)) {

    }

#endif
char namestr[DNS_NAME_FORMATSIZE];
dns_rdata 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);
   }

}
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);
        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);
        }
    }
#else
    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;; ERROR : ");
        dns_name_print(name, stdout);
        printf(" is not a subdomain of: ");
        dns_name_print(zone_name, stdout);
        printf(" FAILED\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 sigdata = DNS_RDATA_INIT;
    dns_rdataset_current(&mysigrdataset, &sigdata);
    result = dns_rdata_tostruct(&sigdata, &siginfo, NULL);
    check_result(result, "sigdata 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_rresearch(&chase_nsrdataset, name, dns_rdatatype_ns,
                                 dns_rdatatype_any, &t);
    if (result != ISC_R_SUCCESS) {
        printf(";; 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);

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,
static int
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);

dns_rdataset_init(&myrdataset);
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: %dn",

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)
 ISC_RESULT_T
 sigchase_verify_sig(dns_name_t *name, dns_rdataset_t *dataset,
    dns_rdataset_t *keyrdataset,
    dns_rdataset_t *sigrdataset)
 {
    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, dataset, 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 sigdata = DNS_RDATA_INIT;

dns_rdataset_current(&mysigrdataset, &sigdata);

    result = dns_rdata_tostruct(&sigdata, &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, &sigdata);

        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);

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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,
                                              mctx, &dnsseckey);

            break;
        } while (true);
    } while (false);

    return result;
}
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,
                                dsbuf, &newdsrdata);
    dns_rdata_freestruct(&dsinfo);
    if (result != ISC_R_SUCCESS) {
        printf("Oops: impossible to build"
               " new DS rdata\n");
        goto cleanup;
    }
    if (dns_rdata_compare(&dsrdata,
                          &newdsrdata) == 0) {
        printf(";; OK a DS valids a DNSKEY"
               " in the RRsset\n");
        printf(";; Now verify that this"
               " DNSKEY validates the "
               "DNSKEY RRset\n");
        result = sigchase_verify_sig_key(name,
                                         keyrdataset,
                                         keyrdataset,
                                         chase_sigkeyrdataset);
        if (result == ISC_R_SUCCESS)
            goto cleanup;
        else {
            printf(";; This DS is NOT the DS for"
                   " 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 resolve it.
 * the searched rrsset is a rrsset 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 rrsset
 * ISC_R_NOTFOUND: we do not found the rrsset in cache
 * and we do a query on the net
 * ISC_R_FAILURE: rrsset not found
 */
isc_result_t advanced_rrsearch(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;
    /*
     * take a pointer on a rdataset in parameter and try to resolve 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 rrset
     * ISC_R_NOTFOUND: we do not found the rrset in cache
     * and we do a query on the net
     * ISC_R_FAILURE: rrset not found
     */
     isc_result_t advanced_rrsearch(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;
        /*
         * take a pointer on a rdataset in parameter and try to resolve 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 rrset
         * ISC_R_NOTFOUND: we do not found the rrset in cache
         * and we do a query on the net
         * ISC_R_FAILURE: rrset not found
         */
         isc_result_t advanced_rrsearch(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);
         }

#endif
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);
    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);
        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);
printf("\n");
error_message = msg;
}
} else {
    printf(":: NO ANSWERS: %s\n",
            isc_result_totext(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("\n:: DNSKEY is missing to continue validation:"
          " FAILED\n\n");
go to cleanandgo;
}
if (result == ISC_R_NOTFOUND)
    return;
INSIST(chase_keyrdataset != NULL);
printf("\n:: DNSKEYset:\n");
print_rdataset(&chase_current_name , chase_keyrdataset);

result = advanced_rrsearch(&chase_sigkeyrdataset,
if (result == ISC_R_FAILURE) {
    printf(";; RRSIG of DNSKEY is missing to continue validation:
        " FAILED

    ");
goto cleanandgo;
}
if (result == ISC_R_NOTFOUND)
    return;
INSIST(chase_sigkeyrdataset != NULL);
printf(";; RRSIG of the DNSKEYset:\n");
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_sigsdsdataset != 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

    ");
goto cleanandgo;
} else {
    chase_dsrdataset = NULL;
    chase_sigsdsdataset = 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_name,
                      dns_rdatatype_rrsig,
                      current_lookup
                      ->rdtype_sigchase,
if (result == ISC_R_FAILURE) {
    printf("\n;; RRset is missing to continue"
        " validation SHOULD NOT APPEND:
        " FAILED\n\n");
    goto cleanandgo;
} else {
    result = advanced_rrsearch(&chase_sigrdataset,
        &chase_authority_name,
        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\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(";; 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,
   &chase_authority_name,
   dns_rdatatype_ns,
   dns_rdatatype_any,
   &chase_nsrlookedup);
if (result == ISC_R_FAILURE) {
    printf(";;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_dsrlookedup);
if (result == ISC_R_FAILURE) {
    printf(";; DSset is missing to continue validation:
"   " FAILED\n\n");
goto cleanandgo;
}
if (result == ISC_R_NOTFOUND)
    return;
INSIST(chase_dsrdataset != NULL);
result = advanced_rrsearch(&chase_sigdsrdataset,
   &chase_authority_name,
   dns_rdatatype_rrsig,
   dns_rdatatype_ds,
   &t);
if (result != ISC_R_SUCCESS) {
    printf(";; 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");
goto cleanandgo;
}
chase_keyrdataset = NULL;
chase_sigkeyrdataset = NULL;

prepare_lookup(&chase_authority_name);

have_response = false;
have_delegation_ns = false;
delegation_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");
goto cleanandgo;
    }
ret = sigchase_verify_sig(&rdata_name, rdataset,
    chase_keyrdataset,
    sigrdataset);
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\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->rdtype_sigchase,
    dns_rdatatypex_type_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));

        if (chase_name.ndata == NULL)
            return (ISC_R_ADDRNOTAVAIL);
        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("\n; No Answers: Validation FAILED\n\n");
        }

        result = advanced_rrsearch(&chase_rdataset, name,
                                    dns_rdatatype_any,
                                    dns_rdatatype_any, &t);
        if (result != ISC_R_SUCCESS) {
            printf("\n; No Answers: Validation FAILED\n\n");
    }

    /* 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("\n; 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_rrsig,
   chase_rdataset->type,
   &chase_siglookedup);
if (result == ISC_R_FAILURE) {
printf("\n;; RRSIG is missing for continue validation:" " FAILED\n\n");
if (dns_name_dynamic(&chase_name))
free_name(&chase_name);
return (ISC_R_NOTFOUND);
}
if (result == ISC_R_NOTFOUND) {
return (ISC_R_NOTFOUND);
}
printf("\n;; RRSIG of the RRset to chase:\n");
print_rdataset(&chase_name, chase_sigrdataset);
}
INSIST(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,
   dns_rdatatype_dnskey,
   dns_rdatatype_any,
   &chase_keylookedup);
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);
}
printf("\n; DNSKEYset that signs the RRset to chase:\n");
print_rdataset(&chase_signame, chase_keyrdataset);
;
INSIST(chase_keyrdataset != NULL);
if (chase_sigkeyrdataset == NULL) {
    result = advanced_rrsearch(&chase_sigkeyrdataset,  
        &chase_signame, 
        dns_rdatatype_rrsig, 
        dns_rdatatype_dnskey, 
        &chase_sigkeylookedup);
    if (result == ISC_R_FAILURE) {  
        printf("\n; RRSIG for 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);
    }
    printf("\n; RRSIG of the DNSKEYset that signs the "  
        "RRset to chase:\n");
    print_rdataset(&chase_signame, chase_sigkeyrdataset);
    }
INSIST(chase_sigkeyrdataset != NULL);

if (chase_dsrdataset == NULL) {
    result = advanced_rrsearch(&chase_dsrdataset, &chase_signame,  
        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_signame, stdout);
        free_name(&chase_signame);
        return (ISC_R_NOTFOUND);
    }
    if (result == ISC_R_NOTFOUND) {
        free_name(&chase_signame);
        return (ISC_R_NOTFOUND);
    }
    printf("\n; WARNING There is no DS for the zone: ");
    dns_name_print(&chase_signame, stdout);
}
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("\n");
            if (result == ISC_R_NOTFOUND) {
                free_name(&chase_signame);
                return (ISC_R_NOTFOUND);
            }
            if (chase_dsrdataset != NULL) {
                printf("\n;; DSset of the DNSKEYset\n");
                print_rdataset(&chase_signame, 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");
            } else {
                printf("\n;; RRSIG of the DSset of the DNSKEYset\n");
                print_rdataset(&chase_signame, chase_sigdsrdataset);
            }
        }
        return (1);
    }
}

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printf("No trusted keys present\n");
return;
}

ret = getneededrr(msg);
if (ret == ISC_R_NOTFOUND)
return;

if (ret == ISC_R_ADDRNODAT) {
/* 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("\n;; 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;

Open Source Used In Viptela 19.3.02109
chase_keyrdataset = NULL;
chase_sigkeyrdataset = NULL;
chase_dsrdataset = NULL;
chase_sigsrdataset = NULL;
chase(siglookedup = false;
chase_keylookedup = false;
chase_dslookedup = false;
chase_sigsdslookedup = false;
sigchase(msg);
clean_trustedkey();
return;
}

printf("\n\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,
chaseSigkeyrdataset);
if (result == ISC_R_SUCCESS) {
free_name(&chase_name);
free_name(&chase_signame);
printf("\n;; 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();
}
result = sigchase_verify_ds(&chase_signature, chase_keyrdataset, chase_dsrdataset);
if (result != ISC_R_SUCCESS) {
  free_name(&chase_signature);
  free_name(&chase_name);
  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_signature, &chase_name);
free_name(&chase_signature);
chase_rdataset = chase_dsrdataset;
chase_sigrdataset = chase_sigdsrdataset;
chase_keyrdataset = NULL;
chase_sigrdataset = NULL;
chase_dsrdataset = NULL;
chase_sigdsrdataset = NULL;
chase_siglookedup = chase_keylookedup = false;
chase_dslookedup = chase_sigdslookedup = 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
  * and -2 if problem
  */

int inf_name(dns_name_t *name1, dns_name_t *name2)
{
  dns_label_t label1;
  dns_label_t label2;
  unsigned int nlabel1;
  unsigned int nlabel2;
  int min_lum_label;
  int i;
  int ret = -2;

  nlabel1 = dns_name_countlabels(name1);
  nlabel2 = dns_name_countlabels(name2);

  if (nlabel1 >= nlabel2)
    min_lum_label = nlabel2;
  else
    min_lum_label = nlabel1;

  for (i=1 ; i < min_lum_label; i++) {
    dns_name_getlabel(name1, nlabel1 -1 - i, &label1);
    dns_name_getlabel(name2, nlabel2 -1 - i, &label2);
    if ((ret = isc_region_compare(&label1, &label2)) != 0) {
      if (ret < 0)
        return (-1);
      else if (ret > 0)
        return (1);
    }
  }

  if (nlabel1 == nlabel2)
    return (0);

  if (nlabel1 < nlabel2)
    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
        ");
    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_scanname_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 **sigdataset)
{
    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_scannname_section(msg, name, dns_rdatype_nsec,
  dns_rdatype_any,
  DNS_SECTION_AUTHORITY);
if (nsecset != NULL) {  
printf("We have a NSEC for this zone :OK\n");
ret = prove_nx_type(msg, name, nsecset,
  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 ": validating 
"that the zone doesn't exist\n");
ret = prove_nx_domain(msg, name, rdata_name,
  rdataset, sigrdataset);
return (ret);
} /* Never get here */
#endif

---

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 */

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

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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#endif

#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) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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* @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)
#endif

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

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLRD 0x0008
#define POLLHUP 0x0100
#define POLLNVAL 0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

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

int poll(struct pollfd *, nfds_t, int);

1.166 bash 4.4.12
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Ajay Tirumala
Jim Ferguson
Jon Dugan
Feng Qin
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John Estabrook
National Laboratory for Applied Network Research
National Center for Supercomputing Applications
University of Illinois at Urbana-Champaign
http://www.ncsa.uiuc.edu

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/*
 * 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 memcmp(). 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. */

#include "gnu_getopt.h"

#ifdef __cplusplus
extern "C" {
#endif

/* 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,
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])))) ) {
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 ) {

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/* 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 */
            fprintf (stderr,
                _(""%s: option `--%s' doesn't allow an argument
"),
                argv[0], pfound->name);
        }
        else {
            /* +option or -option */
            fprintf (stderr,
                _(""%s: option `%c%s' doesn't allow an argument
"),
                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
"),
                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 */
            fprintf (stderr, _("%s: unrecognized option `--%c%s\n"),
                argv[0], nextchar);
        else
            /* +option or -option */
            fprintf (stderr, _("%s: unrecognized option `%c%c%s\n"),
                argv[0], argv[gnu_optind][0], nextchar);
    } else
        /* +option or -option */
        fprintf (stderr, _("%s: unrecognized option `%c%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 )
   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 `-W %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] == ':' ) {
    if ( temp[2] == ':' ) {
        /* 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\n"),
                    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':
                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;
        }
    }

#endif
case 'a':
    fprintf ( stderr, "option a\n");
    break;

case 'b':
    fprintf ( stderr, "option b\n");
    break;

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);
    break;
}
}

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);
}

#endif /* TEST */
Theodore Ts'o

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Theodore Ts'o
23-June-2007

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

That's all there is to it!
This is 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 package was put together by Yann Dirson <dirson@debian.org>,

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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-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:

http://sourceforge.net/projects/e2fsprogs

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

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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to use the modified definitions.)

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

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

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Library" must include any data and utility programs needed for
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1.181 pam-tacplus 1.3.8
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1.190 shadow-securetty 4.6

1.191 libgcrypt 1.8.2 1.0

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