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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '\n'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '\n')"/>
    <xsl:if test="translate($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:stylesheet>
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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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analysis/common/src/java/net/sf/snowball
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The KStem stemmer in
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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil,
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The Polish analyzer (stempel) comes with a default
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snakeyaml NOTICE

***The art of simplicity is a puzzle of complexity.***

## Overview ##
[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting
languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##
* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can
parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##
* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##
* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug
* You may discuss SnakeYAML at
[the mailing list](http://groups.google.com/group/snakeyaml-core).

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Protocol Buffers for Go with Gadgets

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* IPv6 Support: Jeroen Massar <jeroen@unfix.org / jeroen@ipng.nl>
* Improved main loop: David Schweikert <david@schweikert.ch>
* Debian Merge, TOS settings: Tobi Oetiker <tobi@oetiker.ch>
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/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * 
 * @version 0.0
 * 
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{
    /**
     * This method tests whether or not a specified <code>Permission</code>
     * (passed as an <code>Object</code>) is the same as this permission.
     * 
     * @param perm The permission to check for equality
     * 
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>.
     * 
     * @return A <code>String</code> representing this permission.
     */
    String toString();
}

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*m4/ax_func_which_gethostbyname_r.m4

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That's all there is to it!
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 (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?) ) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)
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Local Variables:
ispell-local-pdict: "ispell-dict"
End:

/* Definitions for BSD assembler syntax for Intel 386
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   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"\n", (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_OUTPUTAligned_LOCAL(FILE, NAME, SIZE, ALIGNMENT)\
( fputs (”.lcomm ”, (FILE)),\
 assemble_name ((FILE), (NAME)),\
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* 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), 	".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

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

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

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

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

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

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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

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

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

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

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

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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.)

@end enumerate

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

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

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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:

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.)

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

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@end enumerate

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

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

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

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

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Version 3.1, 31 March 2009

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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
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<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

/* 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"\n", (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 ("\t.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 ("\t.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 ("\t.lcomm \", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* 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

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@enumerate
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@end item
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@end enumerate

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@end enumerate

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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
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@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}

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it under the terms of the GNU General Public License as published by
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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:

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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 smallexample

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (dettefs@src.dec.com) also provided several generic bug fixes. 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 (dettefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

#!/usr/bin/python

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# # 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
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(['COPYING',
                                'COPYING.LIB',
                                'COPYING3',
                                # Skip licence files.
                                ])
'COPYING3.LIB',
'LICENSE',
'fdl.texi',
'gpl_v3.texi',
'fdl-1.3.xml',
'gpl-3.0.xml',

# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
}

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 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]+and\s+)*[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\s+[Cc]\[Cc]\]s+'
    '[(Cc]\[Cc\]opyrights+\+\[(Cc]\]s')
    '[(Cc]\[Cc\]opyrights+\+%s'
    '[(Cc]\[Cc\]opyrights+\&copy;
    '[(Cc]\[Cc\]opyrights+\@copyright\{\}]
    '[@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).
    '(by\s+)?'(\s*\s*'+ name + ')'+ name + ')'+ name + ')')

# 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('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):
    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)]
       + ' ' + 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)
    with open (pathname, 'r') as file:
        prev = None
        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):
                    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)
        if self.use_quilt:
            subprocess.call (['quilt', 'add', pathname])
        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...\n\n' % sys.argv[0])
    'Options:\n\n' for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('\nDirectories:\n')
    format = '%-15s %s\n'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        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[0:1] != '-'
            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',

            # Automatically-generated.
            '.pot',
        ])

        #
self.fossilised_files |= set(
    # Old news won't be updated.
    ['ONEWS'],
)

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
        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',
             
             # Automatically-generated.
             '.pot',
            ]
        )

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
self.skip_dirs |= set([
    # Imported from GLIBC.
    'soft-fp',
    ])

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

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
            ])

    def get_line_filter(self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter(self, dir, filename)

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

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
            ])

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.
            ])

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'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.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Information Technology Industry Council')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura')
        self.add_external_author('National Research Council of Canada')
        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, 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('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libobjc')
        self.add_dir('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir('libssp')
        self.add_dir(os.path.join('libobjc', 'testsuite'), TestsuiteFilter())
        self.add_dir('libstdc++-v3', LibStdCxxFilter())
        self.add_dir('lto-plugin')
        # zlib is imported from upstream.
self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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Version 3.1, 31 March 2009

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadox.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>"),
                }
            result.append("</dl>"),
        }
    }
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>"),
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright ©" + tags[i].text() + "</i></dt>"),
        }
    result.append("</dl>"),
}
return result.toString();
}
else {
    return null;
}
}

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;
import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable
{

    /**
     * Compatible with JDK 1.1+
     */

    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */

    private String name;

    /**
     * Create an instance with the specified name.
     *
* @param name the permission name
*/

public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */

public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */

public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */

public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 */
* @return a hash value
*/
public abstract int hashCode();

/**
* Get the name of this <code>Permission</code>.
* @return the name
*/
public final String getName()
{
    return name;
}

/**
* This method returns the list of actions for this <code>Permission</code> as a <code>String</code>. The string should be in canonical order, for example, both <code>new FilePermission(f, "write,read")</code> and <code>new FilePermission(f, "read,write")</code> have the action list "read,write".
* @return the action list for this <code>Permission</code>
*/
public abstract String getActions();

/**
* This method returns an empty <code>PermissionCollection</code> object that can store permissions of this type, or <code>null</code> if no such collection is defined. Subclasses must override this to provide an appropriate collection when one is needed to accurately calculate <code>implies</code>
* @return a new <code>PermissionCollection</code>
*/
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
* This method returns a <code>String</code> representation of this <code>Permission</code> object. This is in the format: <code>\'(\+
getClient().getName() + '\'+
getName() + '\'+
getActions
* + '\')\'</code>
* @return this object as a <code>String</code>
*/
public String toString()
{  
CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');  
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
 /**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
 boolean equals (Object perm);

 /**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
 String toString();
}

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1.23 github.com/gogo/protobuf 1.1.1

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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
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1.24 github.com/ugorji/go v1.1.1

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1.25 glibc 2.17 :260.el7_6.5

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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Bartosz Oler <brtsz@google.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Haines <bhainesva@gmail.com>
Ben Laurie <ben@links.org> <benl@google.com>
Ben Lubar <ben.lubar@gmail.com>
Ben Lynn <benlynn@gmail.com>
Ben Olive <sionide21@gmail.com>
Ben Schwartz <bemasc@google.com>
Ben Shi <powerman1st@163.com>
Benjamin Black <b@b3k.us>
Benjamin Cable <cable.benjamin@gmail.com>
Benjamin Hsieh <tanookiben@users.noreply.github.com>
Benjamin Prosnitz <bprosnitz@google.com>
Benjamin Wester <bwester@squareup.com>
Benny Siegert <bsiegert@gmail.com>
Benoit Sigoure <tsunanet@gmail.com>
Berengar Lehr <Berengar.Lehr@gmx.de>
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>
Bill O'Farrell <billo@ca.ibm.com>
Bill Prin <waprin@google.com>
Bill Thiede <couchmoney@gmail.com>
Bill Zissimopoulos <billziss@navimatics.com>
Billie Harold Cleek <bhcleek@gmail.com>
Billy Lynch <wlynch@gmail.com>
Bjorn Tillenius <bjorn@tillenius.me>
Bjorn Tipling <bjorn.tipling@gmail.com>
Blain Smith <rebelgeek@blainsmith.com>
Blake Gentry <blakesgentry@gmail.com>
Blake Mesdag <blakemesdag@gmail.com>
Blake Mizerany <blake.mizerany@gmail.com>
Blixt <me@blixt.nyc>
Bob Briski <rbriski@gmail.com>
Bob Potter <hobby.potter@gmail.com>
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Boris Nagaev <nagaev@google.com>
Borja Clemente <borja.clemente@gmail.com>
Brad Burch <brad.burch@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <rbjones@google.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Basingthwaite <bbsasingthwaite@vendasta.com>
Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Open Source Used In Virtualized Infrastructure Manager 3.2.2

Clement Skau <clementskau@gmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivelpenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Rice <clr@google.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cmeyer@cs.washington.edu>
Conrado Gouveia <conradogouveia@gmail.com>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Corey Thomasson <cthom.lists@gmail.com>
Cosmos Nicolaou <cnicolau@gmail.com>
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Craig Citro <craigcitro@gmail.com>
Cristian Staretu <unclejacks@gmail.com>
Cuihtlauc Alvarado <cuihtlauc.alvarado@orange.com>
Cyril Schumacher <cyril@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <d2@dmathieu.com>
Damien Neil <dneil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@gmail.com>
Dan Jacques <dnj@google.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@google.com>
Daniel Neophin <dneophin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daniela Petruzalek <daniela.petruzalek@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Nagorny <denis.nagorny@intel.com>
Dennis Kuhnert <mail.kuhnert@gmail.com>
Denys Honsiorovskyi <honsiorovskyi@gmail.com>
Derek Buitenhuis <derek.buitenhuis@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgstyle.net>
Derek Parker <parkerderek86@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Dev Ojha <dojah12@gmail.com>
Dev Zhoujun <dev.zhoujun@gmail.com>
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Dhaivat Pandit <dhaivatpandit@gmail.com>
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Dhruvdutt Jadhav <dhruvdutt.jadhav@gmail.com>
Di Xiao <dixiao@gmail.com>
Didier Spezia <didier.06@gmail.com>
Dieter Plaetinck <dieter@raintank.io>
Dimitri Sokolyuk <sokolyuk@gmail.com>
Dimitri Tcaciuc <dtcaciuc@gmail.com>
Diogo Pinela <diogoid7400@gmail.com>
Dirk Gadsden <dirk@esherido.com>
Diwaker Gupta <diwaker.gupta@gmail.com>
Dmitri Popov <operator@cv.dp-net.com>
Dmitri Shuralyov <dmitshur@golang.org> <dmitri@shuralyov.com>
Dmitriy Cherchenko <dcherchenko@gmail.com>
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>
Dmitriy Shelenin <deemok@gmail.com> <deemok@gmail.com>
Dmitriy Vyukov <dvyukov@gmail.com>
Dmitry Chestnykh <dchest@gmail.com>
Dmitry Doroginin <doroginin@gmail.com>
Dmitry Savintsev <dsavints@gmail.com>
Dmitry Yakunin <nonamezeil@gmail.com>
Dominic Green <dominic.green1@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Donald Huang <don.hcd@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@gmail.com>
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Fumitoshi Ukai <ukai@google.com>
Gaal Yahas <gaal@google.com>
Gabriel Arthr Ptursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Russell <gabriel.russell@gmail.com>
Gareth Paul Jones <gpj@foursquare.com>
Garret Kelly <gdk@google.com>
Garrick Evans <garrick@gmail.com>
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>
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Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Gauthier Jolly <gauthier.jolly@gmail.com>
Geert-Johan Riemer <gjr19912@gmail.com>
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GitHub User @erifan (31343225) <eric.fang@arm.com>
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GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
Giulio Iotti <dullgiulio@gmail.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glenbb@auburn.edu>
Glenn Lewis <gmlewis@auburn.edu>
Gordon Klaus <gordon.klaus@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Jirka Dank <dnk@mail.muni.cz>
Jiulong Wang <jiulongw@gmail.com>
Joakim Sernbrant <serbaut@gmail.com>
Joe Cortopassi <joe@joecortopassi.com>
Joe Farrell <joe2farrell@gmail.com>
Joe Harrison <joehazzers@gmail.com>
Joe Henke <joed.henke@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Joe Poirier <jdpoirier@gmail.com>
Joe Richey <jorichey@google.com>
Joe Shaw <joe@joeshaw.org>
Joe Sylve <joe.sylve@gmail.com>
Joe Tsai <joetsai@digital-static.net>
Joel Sing <joel@sing.id.au> <jsing@google.com>
Jol Stemmer <jstemmer@google.com>
Joel Stemmer <stemmertech@gmail.com>
Joey Geiger <jgeiger@users.noreply.github.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
Johan Euphrosine <proppy@google.com>
Johan Sageryd <j@1616.se>
John Asmuth <jasmuth@gmail.com>
John Beisley <huin@google.com>
John C Barstow <jbowtie@amathaine.com>
John DeNero <denero@google.com>
John Dethridge <jcd@golang.org>
John Gibb <johnngibb@gmail.com>
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>
John Howard Palevich <jack.palevich@gmail.com>
John Jeffery <jjeffery@sp.com.au>
John Jenkins <twodopeshaggy@gmail.com>
John Leidegren <john.leidegren@gmail.com>
John Newlin <jnewlin@google.com>
John Potocny <johnp@vividcortex.com>
John R. Lenton <jlenton@gmail.com>
John Schnake <schnake.john@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Johnny Luo <johnnyluo1980@gmail.com>
Jon Chen <jchen@justin.tv>
Jonas Bernoulli <jonas@bernoul.li>
Jonathan Allie <jonallie@google.com>
Jonathan Amsterdam <jba@google.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.github.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhseu@google.com>
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>
Open Source Used In Virtualized Infrastructure Manager 3.2.2

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Jonathan Nieder <jrn@google.com>
Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <jonesskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jos Visser <josv@google.com>
Jose Luis Vzquez Gonzalez <jovsazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrh@joshh.co.uk>
Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jcjoshuachase@gmail.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@gmail.com>
JT Olds <jtolds@xnet5.com>
Juan Carlos <juanjcsr@gmail.com>
Jude Pereira <judebpereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@gmail.com>
Julian Kornberger <jk+github@digneo.de>
Julian Pastarmov <pastarmovj@gmail.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julio Montes <julio.montes@intel.com>
Junda Liu <junda@celer.network>
Jungho Ahn <jhahn@google.com>
Junya Hayashi <ledmonster@gmail.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <jgracenin@gmail.com>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justynstemme@gmail.com>
Kai Backman <kaib@golang.org>
Wedson Almeida Filho <wedsonaf@google.com>
Wi Congru <crvv.mail@gmail.com>
Wei Fu <hfufei@163.com>
Wei Guangjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Weichao Tang <tevic.tt@gmail.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
Wilfried Teiken <wteiken@gmail.com>
Will Chan <willchan@google.com>
Will Faught <will.faught@gmail.com>
Will Norris <willnorris@gmail.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Chang <mr.williamchang@gmail.com>
William Josephyson <wjosephyson@gmail.com>
William Orr <will@worbase.com> <ay1244@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xxy23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xing Xing <mikespook@gmail.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicealias.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzt@desire.sh>
Yan Zou <yzou@google.com>
Yann Hodique <yhodique@gmail.com>
Yann Kerherve <yann.kerherve@gmail.com>
Yann Salan <yannsalaunl@gmail.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@gmail.com>
Yasha Bubnov <girokompass@gmail.com>
Yasuharu Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yasuyuki Oka <yasuyk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <yllh@pdx.edu>
Yesudeep Mangalapilly <yesudeep@google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yooanlin93@gmail.com>
Yongjian Xu <i3dmaster@gmail.com>
Yorman Arias <cixtords@gmail.com>
Yoshiyuki Kanno <nekorotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
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1.33 go-spf13-jwalterweatherman 14d3d4c

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1.34 go-tomb v2

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1.35 go-toml 1.2.0

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1.36 go.uuid master :36e9d2e

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1.37 gopkg.in/yaml.v2 v2.2.1

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Nigel Tao <nigeltao@golang.org>
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metrics from the pseudo filesystem proc.

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## go-diff - https://github.com/sergi/go-diff

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## cli.go - https://github.com/codegangsta/cli

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# gomega - https://github.com/onsi/gomega

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compiler/cpp/src/generate/t_erl_generator.cc
compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftI.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TLList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TTThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTTransport.cs
lib/csharp/src/Transport/TTTransportException.cs
lib/csharp/src/Transport/TTTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

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Go support for Protocol Buffers - Google's data interchange format

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James Hall <james.hall@shopify.com>
Johan Euphrosine <proppy@gmail.com>
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Mario Castro <mariocaster@gmail.com>
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Sarah Adams <shadams@gmail.com>
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## go-diff - https://github.com/sergi/go-diff

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## golcs - https://github.com/yudai/golcs

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## cli.go - https://github.com/codegangsta/cli

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## ginkgo - https://github.com/onsi/ginkgo

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Dustin Sallings <dustin@spy.net>
Jason Mooberry <jasonmoo@me.com>
Sergey Shepelev <temotor@gmail.com>
Alex Edwards <ajmedwards@gmail.com>

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Dustin Sallings <dustin@spy.net>
Jason Mooberry <jasonmoo@me.com>
Sergey Shepelev <temotor@gmail.com>
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Danny Yoo <dannyyoo@google.com>
James Kolb <jkolb@google.com>
Jonathan Amsterdam <jba@google.com>
Markus Zimmermann <markus.zimmermann@nethead.at> <markus.zimmermann@symflower.com> <zimmski@gmail.com>
Matt Kovars <akaskik@gmail.com>
rjan Persson <orjan@spotify.com>
Osman Masood <oamasood@gmail.com>
Robert Carlsen <rwcarlsen@gmail.com>
Rory Flynn <roryflynn@users.noreply.github.com>
Sergi Mansilla <sergi.mansilla@gmail.com>
Shatrugna Sadhu <ssadhu@apcera.com>
Shawn Smith <shawnpsmith@gmail.com>
Stas Maksimov <maksimov@gmail.com>
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Dustin Sallings <dustin@spy.net>
Jason Mooberry <jasonmoo@me.com>
Sergey Shepelev <temotor@gmail.com>
Alex Edwards <ajmedwards@gmail.com>

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.40 grpc 1.14.0

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National Center for Supercomputing Applications
University of Illinois at Urbana-Champaign
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* httpd@ncsa.uiuc.edu

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

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

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

/*

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1.43 hvac 0.6.4

1.44 i40e 2.7.26

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 */

#ifndef _LINUX_DEVLINK_H_
#define _LINUX_DEVLINK_H_

#define DEVLINK_GENL_NAME "devlink"
#define DEVLINK_GENL_VERSION 0x1
#define DEVLINK_GENL_MCGRP_CONFIG_NAME "config"

enum devlink_command {
    /* don't change the order or add anything between, this is ABI! */
    DEVLINK_CMD_UNSPEC,

    DEVLINK_CMD_GET, /* can dump */
    DEVLINK_CMD_SET,
    DEVLINK_CMD_NEW,
    DEVLINK_CMD_DEL,

    DEVLINK_CMD_PORT_GET, /* can dump */
    DEVLINK_CMD_PORT_SET,
    DEVLINK_CMD_PORT_NEW,
    DEVLINK_CMD_PORT_DEL,

    DEVLINK_CMD_PORT_SPLIT,
    DEVLINK_CMD_PORT_UNSPLIT,

    DEVLINK_CMD_SB_GET, /* can dump */
    DEVLINK_CMD_SB_SET,
    DEVLINK_CMD_SB_NEW,
DEVLINK_CMD_SB_DEL,
DEVLINK_CMD_SB_POOL_GET, /* can dump */
DEVLINK_CMD_SB_POOL_SET,
DEVLINK_CMD_SB_POOL_NEW,
DEVLINK_CMD_SB_POOL_DEL,
DEVLINK_CMD_SB_PORT_POOL_GET, /* can dump */
DEVLINK_CMD_SB_PORT_POOL_SET,
DEVLINK_CMD_SB_PORT_POOL_NEW,
DEVLINK_CMD_SB_PORT_POOL_DEL,
DEVLINK_CMD_SB_TC_POOL_BIND_GET, /* can dump */
DEVLINK_CMD_SB_TC_POOL_BIND_SET,
DEVLINK_CMD_SB_TC_POOL_BIND_NEW,
DEVLINK_CMD_SB_TC_POOL_BIND_DEL,

/* Shared buffer occupancy monitoring commands */
DEVLINK_CMD_SB_OCC_SNAPSHOT,
DEVLINK_CMD_SB_OCC_MAX_CLEAR,

DEVLINK_CMD_ESWITCH_GET,
#define DEVLINK_CMD_ESWITCH_MODE_GET /* obsolete, never use this! */ 
DEVLINK_CMD_ESWITCH_GET

DEVLINK_CMD_ESWITCH_SET,
#define DEVLINK_CMD_ESWITCH_MODE_SET /* obsolete, never use this! */ 
DEVLINK_CMD_ESWITCH_SET

/* add new commands above here */

__DEVLINK_CMD_MAX,
DEVLINK_CMD_MAX = __DEVLINK_CMD_MAX - 1
};

enum devlink_port_type {
DEVLINK_PORT_TYPE_NOTSET,
DEVLINK_PORT_TYPE_AUTO,
DEVLINK_PORT_TYPE_ETH,
DEVLINK_PORT_TYPE_IB,
};

enum devlink_sb_pool_type {
DEVLINK_SB_POOL_TYPE_INGRESS,
DEVLINK_SB_POOL_TYPE_EGRESS,
};

/* static threshold - limiting the maximum number of bytes. */
* dynamic threshold - limiting the maximum number of bytes
* based on the currently available free space in the shared buffer pool.
* In this mode, the maximum quota is calculated based
* on the following formula:
* \[ \text{max_quota} = \frac{\alpha}{1 + \alpha} \times \text{Free_Buffer} \]
* While Free_Buffer is the amount of none-occupied buffer associated to
* the relevant pool.
* The value range which can be passed is 0-20 and serves
* for computation of alpha by following formula:
* \[ \alpha = 2^{\text{passed_value} - 10} \]
*/

definitions:

```c
enum devlink_sb_threshold_type {
  DEVLINK_SB_THRESHOLD_TYPE_STATIC,
  DEVLINK_SB_THRESHOLD_TYPE_DYNAMIC,
};

#define DEVLINK_SB_THRESHOLD_TO_ALPHA_MAX 20

enum devlink_eswitch_mode {
  DEVLINK_ESWITCH_MODE_LEGACY,
  DEVLINK_ESWITCH_MODE_SWITCHDEV,
};

enum devlink_eswitch_inline_mode {
  DEVLINK_ESWITCH_INLINE_MODE_NONE,
  DEVLINK_ESWITCH_INLINE_MODE_LINK,
  DEVLINK_ESWITCH_INLINE_MODE_NETWORK,
  DEVLINK_ESWITCH_INLINE_MODE_TRANSPORT,
};

enum devlink_attr {
  /* don't change the order or add anything between, this is ABI! */
  DEVLINK_ATTR_UNSPEC,
  /* bus name + dev name together are a handle for devlink entity */
  DEVLINK_ATTR_BUS_NAME, /* string */
  DEVLINK_ATTR_DEV_NAME, /* string */
  DEVLINK_ATTR_PORT_INDEX, /* u32 */
  DEVLINK_ATTR_PORT_TYPE, /* u16 */
  DEVLINK_ATTR_PORT_DESIRED_TYPE, /* u16 */
  DEVLINK_ATTR_PORT_NETDEV_IFINDEX, /* u32 */
  DEVLINK_ATTR_PORT_NETDEV_NAME, /* string */
  DEVLINK_ATTR_PORT_IBDEV_NAME, /* string */
  DEVLINK_ATTR_PORT_SPLIT_COUNT, /* u32 */
  DEVLINK_ATTR_PORT_SPLIT_GROUP, /* u32 */
  DEVLINK_ATTR_SB_INDEX, /* u32 */
```
DEVLINK_ATTR_SB_SIZE,/* u32 */
DEVLINK_ATTR_SB_INGRESS_POOL_COUNT,/* u16 */
DEVLINK_ATTR_SB_EGRESS_POOL_COUNT,/* u16 */
DEVLINK_ATTR_SB_INGRESS_TC_COUNT,/* u16 */
DEVLINK_ATTR_SB_EGRESS_TC_COUNT,/* u16 */
DEVLINK_ATTR_SB_POOL_INDEX,/* u16 */
DEVLINK_ATTR_SB_POOL_TYPE,/* u8 */
DEVLINK_ATTR_SB_POOL_SIZE,/* u32 */
DEVLINK_ATTR_SB_POOL_THRESHOLD_TYPE,/* u8 */
DEVLINK_ATTR_SB_THRESHOLD,/* u32 */
DEVLINK_ATTR_SB_TC_INDEX,/* u16 */
DEVLINK_ATTR_SB_OCC_CUR,/* u32 */
DEVLINK_ATTR_SB_OCC_MAX,/* u32 */
DEVLINK_ATTR_ESWITCH_MODE,/* u16 */
DEVLINK_ATTR_ESWITCH_INLINE_MODE,/* u8 */
__DEVLINK_ATTR_MAX,
DEVLINK_ATTR_MAX = __DEVLINK_ATTR_MAX - 1
};

/* add new attributes above here, update the policy in devlink.c */

__DEVLINK_ATTR_MAX,
DEVLINK_ATTR_MAX = __DEVLINK_ATTR_MAX - 1
};
#endif /* _LINUX_DEVLINK_H_ */

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the
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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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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
Axel Haslam
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Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang

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

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Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
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Andrew de Quincey <adq_dvb@lidskialf.net>
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Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
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Davor Emard <emard@softhome.net>
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Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc’s for the
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Michael Dreher <michael@5dot1.de>
Andreas ‘randy’ Weinberger
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Kenneth Aafly <ke-aa@frisurf.no>
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Ernst Peinlich <e.peinlich@inode.at>
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Michael Krufky <mkruflky@m1k.net>
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

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
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Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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* M. Welsh, 6 July 1996
*
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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}

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Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@eledvdb.net>
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for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufty@m1k.net>
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)
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C
Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would
like to be mentioned)

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1.51 kexec-tools 2.0.15 :21.el7_6.3

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#
import os
import re
__all__ = ["getReservedMemory", "getTotalMemory", "getMemoryBounds"]

import blivet.arch
reservedMemory = None

def getReservedMemory():
    """Return the amount of memory currently reserved for kdump in MB."""
    global _reservedMemory

    # Check if the value has already been read
    if _reservedMemory is not None:
        return _reservedMemory
    else:
        try:
            with open("/sys/kernel/kexec_crash_size", "r") as fobj:
                _reservedMemory = int(fobj.read()) / (1024*1024)
            return _reservedMemory
        except (ValueError, IOError):
            return 0

    def getTotalMemory():
        """Return the total amount of system memory in MB

        This is the amount reported by /proc/meminfo plus the amount
        currently reserved for kdump.
        """
        memkb = 0
        fd = open('/proc/meminfo').read()
        matched = re.search('^MemTotal: \s+\d+', fd)
        if matched:
            memkb = int(matched.groups()[0])

        # total_memory return memory in KB, convert to MB
        availMem = memkb / 1024

        return availMem + getReservedMemory()

    def getMemoryBounds():
        """Return a tuple of (lower, upper, step) for kdump reservation limits.

        If there is not enough memory available to use kdump, both lower and
        upper will be 0.
        """

        totalMemory = getTotalMemory()
        arch = blivet.arch.getArch()

        if arch.startswith('ppc64'):
            lowerBound = 384
            minUsable = 1024
            step = 1
elif arch == `aarch64`:
    lowerBound = 512
    minUsable = 512
    step = 1
else:
    lowerBound = 160
    minUsable = 512
    step = 1

upperBound = (totalMemory - minUsable) - (totalMemory % step)

if upperBound < lowerBound:
    upperBound = lowerBound = 0

return (lowerBound, upperBound, step)

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   @(#)col.16.8 (Berkeley) 6/17/91
.TH COL "1" "September 2011" "util-linux" "User Commands"
.SH NAME
col - filter reverse line feeds from input
.SH SYNOPSIS
.col [options]
.SH DESCRIPTION
.col filters out reverse (and half-reverse) line feeds so the output is in the
correct order with only forward and half-forward line feeds, and replaces
white-space characters with tabs where possible. This can be useful in
processing the output of
.nroff (1)
and
.tbl (1).
.PP
reads from standard input and writes to standard output.

.SH OPTIONS

.TP
\fB-b\fR, \fB-\--no-backspaces\fR
Do not output any backspaces, printing only the last character written to
each column position.

.TP
\fB-f\fR, \fB-\--fine\fR
Forward half line feeds are permitted

.I fine
mode. Normally characters printed on a half-line boundary are printed on the
following line.

.TP
\fB-p\fR, \fB-\--pass\fR
Force unknown control sequences to be passed through unchanged. Normally,
\B col
will filter out any control sequences from the input other than those
recognized and interpreted by itself, which are listed below.

.TP
\fB-h\fR, \fB-\--tabs\fR
Output tabs instead of multiple spaces.

.TP
\fB-x\fR, \fB-\--spaces\fR
Output multiple spaces instead of tabs.

.I Fl I, Fl Fl lines Ar num

.TP
\fB-l\fR, \fB-\--lines\fR \fInumber\fR
Buffer at least

.I number
lines in memory. By default, 128 lines are buffered.

.I Fl V, Fl Fl version

.TP
\fB-V\fR, \fB-\--version\fR
Output version information and exit.

.TP
\fB-H\fR, \fB-\--help\fR
Output help and exit.

.SH NOTES
The control sequences for carriage motion that
\B col
understands and their decimal values are listed in the following table:

.PP
\RS
\PD 0
\TP 18
\B ESC\-7
reverse line feed (escape then 7)

.TP
.B ESC\-8
half reverse line feed (escape then 8)
.TP
.B ESC\-9
half forward line feed (escape then 9)
.TP
.B backspace
moves back one column (8); ignored in the first column
.TP
.B newline
forward line feed (10); also does carriage return
.TP
.B carriage return
(13)
.TP
.B shift in
shift to normal character set (15)
.TP
.B shift out
shift to alternate character set (14)
.TP
.B space
moves forward one column (32)
.TP
.B tab
moves forward to next tab stop (9)
.TP
.B vertical tab
reverse line feed (11)
.PD
.RE
.PP
All unrecognized control characters and escape sequences are discarded.
.PP
.B col
keeps track of the character set as characters are read and makes sure the character set is correct when they are output.
.PP
If the input attempts to back up to the last flushed line,
.B col
will display a warning message.
.SH SEE ALSO
.BR expand (1),
.BR nroff (1),
.BR tbl (1)
.SH STANDARDS
The
.B col
utility conforms to the Single UNIX Specification, Version 2. The 
.B \-l
option is an extension to the standard.

.SH HISTORY
A
.B col
command appeared in Version 6 AT&T UNIX.

.SH AVAILABILITY
The col command is part of the util-linux package and is available from 
.UR ftp://\ftp.kernel.org\:\pub\:\linux\:\utils\:\util-linux/
Linux Kernel Archive
.UE

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1.56 libtool 2.4.2 :22.el7_3
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1.60 mapstructure f15292f

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1.61 microcode_ctl 2.1 :47.2.el7_6

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This kbase https://access.redhat.com/articles/3436091 includes a table that maps Intel and AMD CPU processor code family names to updated Intel and AMD microcode package versions.

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Aaron Lee <aaron.lee@rackspace.com>
Aaron Rosen <aaronorosen@gmail.com>
Aaron Rosen <arosen@nicira.com>
Aarti Kriplani <aarti.kriplani@RACKSPACE.COM>
Abhijeet Malawade <Abhijeet.Malawade@nttdata.com>
Abhijeet Malawade <abhijeet.malawade@gmail.com>
Abhishek Anand <csaisst@live.com>
Abhishek Chanda <abhishek@cloudscaling.com>
Abhishek Kekane <abhishek.kekane@nttdata.com>
Abhishek Sharma <abmsharm@in.ibm.com>
Abhishek Talwar <abhishek.talwar@tcs.com>
Adalberto Medeiros <adalbas@linux.vnet.ibm.com>
Adam Gandelman <adam.gandelman@canonical.com>
Adam Gandelman <adam@canonical.com>
Adam Gandelman <adam@ubuntu.com>
Adam Johnson <adjohn@gmail.com>
Adam Kacmarsky <adam.kacmarsky@hp.com>
Adam Spiers <aspiers@suse.com>
Adam Young <ayoung@redhat.com>
Adelina Tuvenie <atuvenie@cloudbasesolutions.com>
Aditi Rajagopal <sarajagopal@us.ibm.com>
Aditi Raveesh <aditi.raveesh@gmail.com>
Aditi Raveesh <aditirav@thoughtworks.com>
Aditya Prakash Vaja <wolverine.av@gmail.com>
Adrian Smith <adrian_f_smith@dell.com>
Adrian Vladu <avladu@cloudbasesolutions.com>
Adrien Cunin <acunin@linagora.com>
Adrien Cunin <adrien.cunin@osones.com>
Ahmad Hassan <ahmad.hassan@hp.com>
Akash Gangil <akashg1611@gmail.com>
Akihiro MOTOKI <motoki@da.jp.nec.com>
Akihiro Motoki <amotoki@gmail.com>
Akira Yoshiyama <a-yoshiyama@bu.jp.nec.com>
Akira Yoshiyama <akirayoshiyama@gmail.com>
Ala Rezmerita <ala.rezmerita@cloudwatt.com>
Alberto Planas <aplanas@gmail.com>
Andrea Rosa <andrea.rosa@hpe.com>
Andreas Jaeger <aj@suse.com>
Andreas Jaeger <aj@suse.de>
Andreas Karis <akaris@redhat.com>
Andreas Scheuring <andreas.scheuring@de.ibm.com>
Andrei Bacos <abacos@cloudbasesolutions.com>
Andrei V. Ostapenko <aostapenko@mirantis.com>
Andrew Bogott <abogott@wikimedia.org>
Andrew Boik <dboik@cisco.com>
Andrew Clay Shafer <acs@parvuscaptus.com>
Andrew Glen-Young <andrew.glen-young@canonical.com>
Andrew James <andrew.james@hp.com>
Andrew Laski <andrew.laski@rackspace.com>
Andrew Laski <andrew.lascii.com>
Andrew Lazarev <alazarev@mirantis.com>
Andrew Melton <andrew.melton@rackspace.com>
Andrew Woodward <awoodward@mirantis.com>
Andrey Brindeyev <abrindeyev@griddynamics.com>
Andrey Kurilin <akurilin@mirantis.com>
Andrey Kurilin <andr.kurilin@gmail.com>
Andrey Pavlov <andrey-mp@yandex.ru>
Andrey Volkov <avolkov@mirantis.com>
Andy Hill <hillad@gmail.com>
Andy Hsiang <yh418t@att.com>
Andy McCrae <andy.mccrae@gmail.com>
Andy Smith <code@term.ie>
Andy Southgate <andy.southgate@citrix.com>
Aneesh Puliyedath Udumbath <aneesh.udumbath@RACKSPACE.COM>
Angus Lees <gus@inodes.org>
Anh Tran <anhht@vn.fujitsu.com>
Anish Bhatt <anish@chelsio.com>
Anita Kuno <akuno@lavabit.com>
Ankit Agrawal <ankit11.agrawal@nttdata.com>
Ann Kamysznikova <akamysznikova@mirantis.com>
Anne Gentle <agentle@cisco.com>
Anne Gentle <anne@openstack.org>
Ante Karamatic <ante.karamatic@canonical.com>
Ante Karamatić <ante.karamatic@canonical.com>
Ante Karamatić <ivoks@ubuntu.com>
Anthony Lee <anthony.mic.lee@hp.com>
Anthony PERARD <anthony.perard@citrix.com>
Anthony Woods <awoods@internap.com>
Anthony Young <sleepsonthefloor@gmail.com>
Anton Arefiev <aarefiev@mirantis.com>
Anton Gorenkov <agorenkov@griddynamics.com>
Anton Kremenetsky <anton.kremenetsky@yandex.ru>
Anton V. Yanchenko <simplylizz@gmail.com>
Antoni Segura Puimedon <toni@midokura.com>
Chris Jones <cmsj@tenshu.net>
Chris Krelle <NobodyCam@gmail.com>
Chris Krelle <nobodycam@gmail.com>
Chris St. Pierre <stpierre@metacloud.com>
Chris Suttles <suttles@gmail.com>
Chris Yeoh <cyeh@au1.ibm.com>
Christian Berendt <berendt@b1-systems.de>
Christine Wang <ijuwang@us.ibm.com>
Christoph Thiel <cthiel@suse.com>
Christopher Lefelhocz <christopher.lefelhoc@rackspace.com>
Christopher Lefelhocz <christopher.lefelhoc@rackspace.com>
Christopher MacGown <chris@pistoncloud.com>
Christopher Yeoh <cyeh@au1.ibm.com>
Chuck Carmack <carmack@us.ibm.com>
Chuck Short <zulcss@ubuntu.com>
Chung Chih, Hung <lyan.h@inwinstack.com>
Cian O'Driscoll <cian@hp.com>
Clark Boylan <clark.boylan@gmail.com>
Claudiu Belu <cbelu@cloudbasesolutions.com>
Claxton <claxton@gmail.com>
Clay Gerrard <clay.gerrard@gmail.com>
Clemens Perz <cperz@gmx.net>
Clenimar Filemon <clenimar.filemon@gmail.com>
Clif Houck <me@clifhouck.com>
Clint Byrum <clint@fewbar.com>
Cole Robinson <crobinso@redhat.com>
Cor Cornelisse <cor@hyves.nl>
Corentin Ardeois <cardeois@internap.com>
Corey Bryant <corey.bryant@canonical.com>
Corey Wright <corey.wright@rackspace.com>
Cory Stone <corystone@gmail.com>
Cory Wright <corywright@gmail.com>
Craig Tracey <craigtracey@gmail.com>
Craig Vyvial <cp16net@gmail.com>
Cyril Roelandt <cyril.roelandt@enovance.com>
DamonLi <damoni@vmware.com>
Dan Dan Song <hbsddl@gmail.com>
Dan Emmons <dan.emmons@rackspace.com>
Dan Florea <dflorea@cisco.com>
Dan Genin <Daniel.Genin@jhuapl.edu>
Dan Genin <daniel.genin@jhuapl.edu>
Dan Peschman <dpeschman@godaddy.com>
Dan Prince <dprince@redhat.com>
Dan Smith <danms@us.ibm.com>
Dan Smith <dansmith@redhat.com>
Dan Smith <dms@danplanet.com>
Dan Wendlandt <dan@nicira.com>
Dane Fichter <dane.fichter@jhuapl.edu>
Dennis Kliban <dkliban@redhat.com>
Denny Zhang <denny@unitedstack.com>
Derek Higgins <derekh@redhat.com>
Devananda van der Veen <devananda.vdv@gmail.com>
Devdatta Kulkarni <devdatta.kulkarni@rackspace.com>
Devdeep Singh <devdeep.singh@citrix.com>
Devendra Modium <dmodium@isi.edu>
Devvin Carlen <devvin.carlen@gmail.com>
Dharini Chandrasekar <dharini.chandrasekar@intel.com>
Dheeraj Gupta <dheeraj.gupta4@gmail.com>
Diana Clarke <diana.joan.clarke@gmail.com>
Dima Shulyak <dshulyak@mirantis.com>
Dimitri Mazmanov <dimitri.mazmanov@ericsson.com>
Dina Belova <dbelova@mirantis.com>
Dinesh Bhor <dinesh.bhor@nttdata.com>
Dirk Mueller <dirk@dmlr.de>
Divya <dikonoor@in.ibm.com>
Dmitry Borodaenko <dborodaenko@mirantis.com>
Dmitry Guryanov <dguryanov@parallels.com>
Dmitry Guryanov <dguryanov@virtuozzo.com>
Dmitry Spikhalskiy <dmitry@spikhalskiy.com>
Dmitry Tantsur <divius.inside@gmail.com>
Dmitry Tantsur <dtantsur@redhat.com>
Dolph Mathews <dolph.mathews@gmail.com>
Dominik Heidler <dheidler@suse.de>
Don Dugger <donald.d.dugger@intel.com>
Donal Lafferty <donal.lafferty@citrix.com>
Dongcan Ye <hellochosen@gmail.com>
Dongdong Zhou <dzhou121@gmail.com>
Donovan Finch <donovanfinch@gmail.com>
Dorin Paslaru <dpaslaru@cloudbasesolutions.com>
Doug Hellmann <doug.hellmann@dreamhost.com>
Doug Hellmann <doug@doughellmann.com>
Doug Royal <douglasroyal@gmail.com>
Drew Fisher <drew.fisher@oracle.com>
Drew Thorstensen <thorst@us.ibm.com>
DuYaHong <yahongdu@cn.ibm.com>
Duan Jiong <jduan@fiberhome.com>
Duncan McGregor <duncan@dreamhost.com>
Duong Ha-Quang <duonghq@vn.fujitsu.com>
Earle F. Philhower, III <earle.philhower.iii@hgst.com>
Ed Bak <ed.bak2@hp.com>
Ed Leafe <ed@leafe.com>
EdLeafe <ed@leafe.com>
Edan David <edand@mellanox.com>
Edgar Magana <emagana@gmail.com>
Eduardo Costa <eduardobmc@gmail.com>
Edward Hope-Morley <edward.hope-morley@canonical.com>
Keisuke Tagami <tagami.keisuke@lab.ntt.co.jp>
Ken Burger <burgerk@us.ibm.com>
Ken Igarashi <igarashik@nttdocomo.co.jp>
Ken Pepple <ken.pepple@gmail.com>
Ken'ichi Ohmichi <ken-oomichi@wx.jp.nec.com>
Ken'ichi Ohmichi <oomichi@mxs.nes.nec.co.jp>
Kengo Sakai <kengo.sakai@dena.com>
Kenji Yasui <k-yasui@ti.jp.nec.com>
Kent Wang <kent.wang@intel.com>
Kentaro Matsumoto <kn-matsumoto@kddi.com>
Keshava Bharadwaj <kb.sankethi@gmail.com>
Kevin Benton <blak111@gmail.com>
Kevin Benton <kevin.benton@bigswitch.com>
Kevin Benton <kevin.benton@rackspace.com>
Kevin Bringard <kbringard@attinteractive.com>
Kevin L. Mitchell <kevin.mitchell@rackspace.com>
Kevin Zhao <Kevin.Zhao@arm.com>
Kevin Zhao <kevin.zhao@arm.com>
Kevin Zhao <kevin.zhao@linaro.org>
KevinZhao <kevin.zhao@linaro.org>
Kevin_Zheng <zhengzhenyu@huawei.com>
Kiall Mac Innes <kiall@managedit.ie>
Kien Nguyen <ntk148v@gmail.com>
Kieran Spear <kispear@gmail.com>
Kirill Shilee <kshilee@gmail.com>
Kiseok Kim <kiseok7@gmail.com>
Kobi Samoray <ksamoray@vmware.com>
Koert van der Veer <koert@cloudvps.com>
Koichi Yoshigoe <koichi.yoshigoe@mail.rakuten.com>
Koji Iida <iida.koji@lab.ntt.co.jp>
Komei Shimamura <kshimamu@cisco.com>
Kost <kost@isi.edu>
Kravchenko Pavel <kpavel@il.ibm.com>
Krisztian Gacsal <krisztian.gacsal@ericsson.com>
Kui Shi <skui.cloud@gmail.com>
Kun Huang <gareth@unitedstack.com>
Kurt Taylor <krtaylor@us.ibm.com>
Kurt Taylor <kurt.r.taylor@gmail.com>
Kurtis Cobb <kurtis.cobb@gmail.com>
Kylin CG <kylin7.sg@gmail.com>
LIU Yulong <liuyulong@le.com>
Lajos Katona <lajos.katona@ericsson.com>
Lan Qi song <lqslan@cn.ibm.com>
Lance Bragstad <lbragstad@gmail.com>
Lance Bragstad <lbragst@us.ibm.com>
Lars Kellogg-Stedman <lars@redhat.com>
Laszlo Hegedus <laszlo.hegedus@ericsson.com>
Launchpad Translations on behalf of nova-core <>
Yong Sheng Gong <gongysh@cn.ibm.com>
Yongli he <yongli.he@intel.com>
Yoon Doyoung <ydoyleneul@gmail.com>
Yosef Berman <yosef@cloudscaling.com>
Yosef Hoffman <yhi128t@att.com>
Yoshiaki Tamura <yoshi@midokura.jp>
Yoshihiko Atsumi <atsumi.yoshihiko@po.ntts.co.jp>
You Ji <jijyou09@gmail.com>
YuYang <yuyangwang1985@gmail.com>
Yufang Zhang <yufang521247@gmail.com>
Yuiko Takada <takada-yuiko@mxn.nes.nec.co.jp>
Yuiko Takada <yui-takada@tg.jp.nec.com>
Yuiko Takada <takada-yuiko@mxn.nes.nec.co.jp>
Yukihiro KAWADA <warp.kawada@gmail.com>
Yulia Portnova <yportnova@mirantis.com>
Yun Mao <yunmao@gmail.com>
Yun Shen <Yun.Shen@hp.com>
Yunhong Jiang <yunhong.jiang@intel.com>
Yunhong Jiang <yunhong.jiang@intel.com>
Yuriy Taraday <yorik.sar@gmail.com>
Yuriy Zverianskyy <yzverianskyy@mirantis.com>
Yuuchi Fujioka <y-fujioka@zg.nes.jp.nec.com>
Yuzlikeev Eduard <euyuzlikeev@mirantis.com>
ZHU ZHU <zhuzhubj@cn.ibm.com>
Zaina Afoulki <zenetcontact@gmail.com>
Zane Bitter <zbitter@redhat.com>
Zed Shaw <zedsaw@zedshaw.com>
Zhao Lei <zhaolei@cn.fujitsu.com>
Zhen Qin <zhenqin@cisco.com>
Zheng Yue <zhengyue@hihuron.com>
Zhengguang <zhengguangou@gmail.com>
Zhenguo Niu <niuzhenguo@huawei.com>
Zhenguo Niu <zhenguo@unitedstack.com>
Zhenzan Zhou <zhenzan.zhou@intel.com>
Zhi Yan Liu <lzy.dev@gmail.com>
Zhi Yan Liu <zhiyanl@cn.ibm.com>
ZhiQiang Fan <aji.zqfan@gmail.com>
ZhiQiang Fan <zhiqiang.fan@huawei.com>
Zhihai Song <zhihai.song@easystack.cn>
Zhihong.JI <zlij@ctrip.com>
Zhiteng Huang <zhiteng.huang@intel.com>
Zhiteng Huang <zhithuang@ebaysf.com>
Zhongyue Luo <zhongyue.nah@intel.com>
Zhou Jianming <zhoujm_cri@hotmail.com>
Zhou ShaoYu <hzzhoushaoyu@corp.netease.com>
ZhuRongze <zrzhit@gmail.com>
Ziad Sawalha <github@highbridge LLC.com>
Zoltan Arnold Nagy <nag@zurich.ibm.com>
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1.69 pflag 1.0.2

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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#
Dmitri Shuralyov <shurcooL@gmail.com>
Ethan Mosbaugh <emosbaugh@gmail.com>
Soheil Hassas Yeganeh <soheil.h.y@gmail.com>
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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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Jan Mercl <0xjnml@gmail.com>
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1.73 PyNaCl 1.3.0

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1.77 python-click 6.7 :1

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1.78 python-dns 1.15.0 :1
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1.79 python-engineio 1.2.3
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1.80 python-etcd 0.4.5

1.81 python-paramiko 2.4.2 :1

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

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1.82 python-pygments 1.4 :10.el7

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2441
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2447
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2451
V# New ports collection makefile for:  python25u000a

V# Date created:         3 July 2003u000a

V# Whom:                 Hye-Shik Chang <perky@FreeBSD.org>u000a
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2466
VCATEGORIES
p393
tp394
ai(g353
V=
 tp395
ai(g6
V
 tp396
ai(g6
Vlang
p397
 tp398
ai(g6
V
 tp399
ai(g6
Vpython
p400
tp401
ai(g6
V
 tp402
ai(g6
Vipv6
p403
tp404
ai(g6
Vu000a
 tp405
ai(g100
VMASTER_SITES
p406
tp407
ai(g353
V=
 tp408
ai(g6
V
 tp409
ai(g138
VS{
p410
tp411
ai(g100
VPYTHON_MASTER_SITES
p412
 tp413
VMaintainer

Python@FreeBSD.org

VComment?

An interpreted

Vintercepted
tp16
a(g100
VOSREL
p17
tp18
a(g138
V}
tp19
a(g6
V\u000a
tp20
a(g100
VCONFIGURE_SCRIPT
p21
tp22
a(g353
V=
tp23
a(g6
V

V../configure
p25
tp26
a(g6
V

V# must be relative\u000a
p28

a(g100
VCONFIGURE_ENV
p30
tp31
a(g353
V=
tp32
a(g6
V

Vp33
a(g100
VOPT
p34
tp35
a(g353
V=
V"${CFLAGS}""
V="echo freebsd"
V=VMAKE_ENV
V=VVPATH
V=${PYTHON_WRKSRC}""
p556
tp557
a(g353
V=
tp558
a(g6
V
tp559
a(g6
Vyes
p560
tp561
a(g6
V\u000a
 tp562
a(g100
VINSTALL\_TARGET
 p563
tp564
a(g353
V=
tp565
a(g6
V
tp566
a(g6
Valtinstall
 p567
tp568
a(g6
V\u000a
 tp569
a(g100
VMAN1
 p570
tp571
a(g353
V=
tp572
a(g6
V
p573
tp574
a(g138
VS\$
 p575
tp576
a(g100
VPYTHON_VERSION
p577
tp578
atg138
V]
tp579
atg6
V.1
p580
tp581
atg6
\u000a\u000a
p582
tp583
atg100
VUSE_PYTHON
p584
tp585
atg353
V=

tp586
atg6
V
tp587
atg6
Vyes
p588
tp589
atg6
\u000a\u000a

tp590
atg100
VPYTHON_VERSION
p591
tp592
atg353
V=

tp593
atg6
V
tp594
atg6
Vpython2.5
p595
tp596
atg6
\u000a\u000a

tp597
OPEN SOURCE USED IN VIRTUALIZED INFRASTRUCTURE MANAGER 3.2.2

VPYTHON_NO_DEPENDS

VPYTHON_WRKSRC

VSHARED_WRKSRC
Open Source Used In Virtualized Infrastructure Manager 3.2.2

2479
VPREFIX
p682
tp683
a(g138
V}
 tp684
a(g6
V/share/examples/
p685
tp686
a(g138
V$
 tp687
 tp688
a(g100
VPYTHON_VERSION
p689
tp690
a(g138
V}
 tp691
a(g6
V\u000a
 tp692
a(g100
VTOOLS_DIR
p693
tp694
a(g353
V=
 tp695
a(g6
V
 tp696
a(g138
V$
 tp697
 tp698
a(g100
VPREFIX
p699
tp700
a(g138
V}
 tp701
Open Source Used In Virtualized Infrastructure Manager 3.2.2

2484
VTHREADS

p765
tp766
atg6
V

tp767
atg255
V"Enable thread support"

p768
tp769
atg6
V

tp770
atg6
Von

p771
tp772
atg6
V

tp773
atg262
V\u005c\u000a

p774
tp775
atg6
V

p776
tp777
atg6

VHUGE_STACK_SIZE

p778
tp779
atg6
V

tp780
atg255
V"Use a larger thread stack"

p781
tp782
atg6
V

tp783
atg6
Voff

p784
tp785
atg6
V
"Use UCS4 for unicode support"

"Use python's internal malloc"
Enable IPv6 support
a(g6
VFPECTL
p830
tp831
a(g6
V
tp832
a(g55
V"Enable floating point exception handling"
p833
tp834
a(g6
V
tp835
a(g6
Voff
p836
tp837
a(g6
V\u000a\u000a
p838
tp839
a(g27
V.include <bsd.port.pre.mk>\u000a
p840
tp841
a(g6
V\u000a
p842
a(g27
V.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\u000a
p843
tp844
a(g6
V
tp845
a(g100
VMLINKS
p846
tp847
a(g353
V=
tp848
a(g6
V
p849
tp850
a(g138
V.else\u000a
p872
tp873
a(g6
V
tp874
a(g6
VPLIST_SUB+
p875
tp876
a(g353
V=
tp877
a(g6
V
tp878
a(g100
VIF_DEFAULT
p879
tp880
a(g353
V=
tp881
a(g255
V"@comment "
p882
tp883
a(g6
V\u000a
tp884
a(g27
V.endif\u000a
p885
tp886
a(g6
V\u000a
tp887
a(g24
V# workaround for a bug in base curses.h.\u000a
p888
tp889
a(g6
V
tp890
a(g6
VCFLAGS+
Open Source Used In Virtualized Infrastructure Manager 3.2.2

2491

V-D__wchar_t

p895
tp896
a(g353
V=
tp897
a(g6
Vwchar_t
p898
tp899
a(g6
V\u000a\u000a
p900
tp901
a(g27
V.if !defined(WITHOUT_THREADS)\u000a
p902
tp903
a(g6
V

p904
a(g6
VCONFIGURE_ARGS+

p905
tp906
a(g353
V=
tp907
a(g6
V

p908
a(g6
V--with-threads
p909
tp910
a(g6
V\u000a
p911
a(g6
VCFLAGS+
if defined(WITHOUT_HUGE_STACK_SIZE)

-DTHREAD_STACK_SIZE
a(g6
V0x20000
p934
tp935
a(g6
V\u000a
 tp936
a(g27
 V.else\u000a
 p937
 tp938
a(g6
 V
 tp939
a(g6
 VCFLAGS+
 p940
 tp941
a(g353
 V=
 tp942
a(g6
 V
 p943
 tp944
a(g6
 V-DTHREAD_STACK_SIZE
 p945
 tp946
a(g353
 V=
 tp947
a(g6
 V0x100000
 p948
 tp949
a(g6
 V\u000a
 tp950
a(g27
 V.endif # defined(WITHOUT_HUGE_STACK_SIZE)\u000a
 p951
 tp952
a(g6
 V
 tp953
a(g6
 VCONFIGURE_ENV+
Open Source Used In Virtualized Infrastructure Manager 3.2.2

2484

p954
tp955
a(g353
V=
tp956
a(g6
V
p957
tp958
a(g100
VLDFLAGS
p959
tp960
a(g353
V=
tp961
a(g255
V"{PTHREAD_LIBS} {LDFLAGS}"
p962
tp963
a(g6
Vu000a
tp964
a(g27
V.else\Vu000a
p965
tp966
a(g6
V
tp967
a(g6
VCONFIGURE_ARGS+
p968
tp969
a(g353
V=
tp970
a(g6
V
tp971
a(g6
V--without-threads
p972
tp973
a(g6
Vu000a
tp974
a(g27
V.if defined(LDFLAGS)
  p975
  tp976
  a(g6
  V
  tp977
  a(g6
VCONFIGURE_ENV+
  p978
  tp979
  a(g353
  V=
  tp980
  a(g6
  V
  p981
  tp982
  a(g100
VLDFLAGS
  p983
  tp984
  a(g353
  V=
  tp985
  a(g255
V"${LDFLAGS}"'
  p986
  tp987
  a(g6
V\u000a
  tp988
  a(g27
V.endif # defined(LDFLAGS)\u000a
  p989
  tp990
  a(g6
  V
  tp991
  a(g27
V.endif # !defined(WITHOUT_THREADS)\u000a
  p992
  tp993
  a(g6
V\u000a
  tp994
  a(g27
V.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\u000a
  p995

tp996
a(g6
V
tp997
a(g6
VCONFIGURE_ARGS+
p998
tp999
a(g353
V=
tp1000
a(g6
V
tp1001
a(g6
V--enable-unicode
p1002
tp1003
a(g353
V=
tp1004
a(g6
Vu.cs4
p1005
tp1006
a(g6
V\u000a

tp1007
a(g27
V.endif\u000a
p1008
tp1009
a(g6
V\u000a

tp1010
a(g27
V.if defined(WITHOUT_PYMALLOC)\u000a
p1011
tp1012
a(g6
V
tp1013
a(g6
VCONFIGURE_ARGS+
p1014
tp1015
a(g353
V=
tp1016
atg6
V
p1017
tp1018
atg6
V---without-pymalloc
p1019
atg6
V\u000a tp1021
atg27
V.endif\u000a
p1022
atg6
V\u000a tp1024
atg27
V.if ${ARCH} == i386\u000a
p1025
tp1026
atg6
V
p1027
atg6
VPLIST_SUB+

p1028
atg353
V=

p1030
atg6
V
p1031
atg100
VX86_ONLY

p1032
atg353
V=

p1034
atg255
V"

p1035
atg6

p1036
V\u000a tp1037
a(g27
V.else\u000a
p1038
 tp1039
a(g6
V
 tp1040
a(g6
VPLIST_SUB+
 p1041
 tp1042
a(g353
 V=
 tp1043
a(g6
V
 tp1044
a(g100
 VX86_ONLY
 p1045
 tp1046
a(g353
 V=
 tp1047
a(g255
V" @comment 
 p1048
 tp1049
a(g6
V\u000a
 tp1050
a(g27
V.endif\u000a
 p1051
 tp1052
a(g6
V
 tp1053
a(g27
V.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\u000a
 p1054
 tp1055
a(g6
V
 tp1056
a(g6
V\u000a
p1081
a(g27
V.endif\u000a
p1082
tp1083
a(g6
V

tp1084
a(g27
V.if ${ARCH} == sparc64\u000a
p1085
tp1086
a(g6
V

tp1087
a(g6
VCFLAGS+

p1088
tp1089
a(g353
V=

p1090
a(g6
V

p1091
tp1092
a(g6
V-\text{DPYTHON_DEFAULT_RECURSION_LIMIT}

p1093
tp1094
a(g353
V=

p1095
a(g6
V900

p1096
tp1097
a(g6
V\u000a

p1098
tp1099
a(g27
Vendif

if !exists(/usr/bin/ypcat) # the world with NO_NIS

else

VPLIST_SUB+

V"@comment "

VPLIST_SUB+
a(g353
V=
tp1120
a(g6
V
tp1121
a(g100
VNO_NIS
p1122
tp1123
a(g353
V=
tp1124
a(g255
V"

p1125
tp1126
a(g6
Vu000a

tp1127
a(g27
V.endif\u000a
p1128
tp1129
a(g6
Vu000a

tp1130
a(g27
V.if !defined(WITHOUT_IPV6)\u000a
p1131
tp1132
a(g6
V

tp1133
a(g6
VCONFIGURE_ARGS+

p1134
tp1135
a(g353
V=
tp1136
a(g6
V

tp1137
a(g6
V--enable-ipv6

p1138
tp1139
a(g6
V\u0000a
tp1140
a(g27
V.else\u0000a
p1141
tp1142
a(g6
V
tp1143
a(g6
VCONFIGURE_ARGS+
p1144
tp1145
a(g353
V=
tp1146
a(g6
V
tp1147
a(g6
V--disable-ipv6
p1148
tp1149
a(g6
V\u0000a
tp1150
a(g27
V.endif\u0000a
p1151
tp1152
a(g6
V\u0000a
tp1153
a(g27
V.if defined(WITH_FPECTL)\u0000a
p1154
tp1155
a(g6
V
tp1156
a(g6
VCONFIGURE_ARGS+
p1157
tp1158
a(g353
V=
tp1159
if ${OSVERSION} >= 700000

VPLATFORMS

Vplat-freebsd4

Vplat-freebsd5

Vplat-freebsd6
tp1180
a(g6
V\u0000a
tp1181
a(g27
V\elif${OSVERSION} \geq 600000\u0000a
p1182
a(g6
V
p1183
a(g100
VPLATFORMS
p1184
a(g353
V=
tp1185
a(g6
Vplat-freebsd4
p1186
a(g6
V
p1187
a(g100
VPLATFORMS
p1188
a(g6
Vplat-freebsd5
p1189
a(g6
V
p1190
a(g6
Vplat-freebsd7
p1191
a(g6
V\u0000a
p1192
a(g27
V\else\u0000a
p1193
a(g6
V
p1194
a(g100
VPLATFORMS
p1195
a(g6
V
p1196
a(g27
V\elif${OSVERSION} \geq 600000\u0000a

Open Source Used In Virtualized Infrastructure Manager 3.2.2

p1200
tp1201
a(g353
V=
tp1202
a(g6
Vplat-freebsd4
p1203
tp1204
a(g6
V
tp1205
a(g6
Vplat-freebsd6
p1206
tp1207
a(g6
V
tp1208
a(g6
Vplat-freebsd7
p1209
tp1210
a(g6
Vu000a
tp1211
a(g27
V.endfVu000a
p1212
tp1213
a(g6
Vu000a
tp1214
a(g6
Vpre-patch:
p1215
tp1216
a(g6
Vu000a
p1217
tp1218
a(g138
VS{
p1219
tp1220
a(g100
VMKDIR
p1221
Open Source Used In Virtualized Infrastructure Manager 3.2.2

2507
a(g138
V}
tp1244
a(g6
V
tp1245
a(g6
V-e
p1246
tp1247
a(g6
V
tp1248
a(g281
V's.*,"$,$,#$\{PREFIX}/bin/$\{PYTHON_VERSION}\,'
p1249
tp1250
a(g6
V
tp1251
a(g262
V\u005c\u000a
p1252
tp1253
a(g6
V
p1254
tp1255
a(g138
V$}
p1256
tp1257
a(g100
VPATCH_WRKSRCP1258
tp1259
a(g138
V}
tp1260
a(g6
V/Tools/scripts/pydoc
p1261
tp1262
a(g6
V
tp1263
a(g6
V>
Open Source Used In Virtualized Infrastructure Manager 3.2.2

2509
p1306
p1307
a(g6
V\u0000a
p1308
p1309
a(g138
V${}
p1310
tp1311
a(g100
VSED
p1312
tp1313
a(g138
V}
tp1314
a(g6
V
p1315
a(g6
V-e
p1316
tp1317
a(g6
V
p1318
a(g281
V'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'
p1319
tp1320
a(g6
V
p1321
a(g262
V\u0005\u0000a
p1322
tp1323
a(g6
V
p1324
tp1325
a(g138
V${}
p1326
tp1327
a(g100
VPATCH_WRKSRC
\texttt{a(g281 V's\textbackslash \textasciicircum{}005c(ASDLGEN.\textbackslash \textasciicircum{}005c)$\{$TRUE\}g'}
\texttt{p1416}
\texttt{tp1417 a(g6 V}
\texttt{tp1418 a(g262 V\textbackslash \textasciicircum{}0005c\textbackslash \textasciicircum{}000a}
\texttt{p1419}
\texttt{tp1420 a(g6 V}
\texttt{p1421}
\texttt{tp1422 a(g138 V$}
\texttt{p1423}
\texttt{tp1424 a(g100 VPATCH_WRK}
\texttt{tp1427 a(g6 V/Makefile.pre.in}
\texttt{p1428}
\texttt{tp1429 a(g6 V\textbackslash \textasciicircum{}000a\textbackslash \textasciicircum{}000a}
\texttt{p1430}
\texttt{tp1431 a(g138 V$}
\texttt{p1432}
\texttt{tp1433 a(g100 VREINPLACE_CMD}
\texttt{p1434}
\texttt{tp1435 a(g138 V}
\texttt{p1436}
\texttt{tp1437 a(g6 V}
\texttt{tp1437}
V-e
p 1438
tp 1439
a(g 6
V
tp 1440
a(g 262
V\u005c\u000a\u000a
p 1441
tp 1442
a(g 6
V
tp 1443
tp 1444
a(g 281
V's|*
python-config$$|#port \u005c\u000a\u000a
p 1445
tp 1446
a(g 6
V
tp 1447
a(g 262
V\u005c\u000a\u000a
p 1448
tp 1449
a(g 6
V	p 1450
tp 1451
a(g 138
V$\}
<p 1452
tp 1453
a(g 100
VPATCH_WRKSRCP
p 1454
tp 1455
a(g 138
V}
tp 1456
a(g 6
V/Makefile.pre.in
<p 1457
tp 1458
a(g 6
V\u000a\u000a
p 1459
Open Source Used In Virtualized Infrastructure Manager 3.2.2

2518
Open Source Used in Virtualized Infrastructure Manager 3.2.2

V/Misc/python-config.in

V$
p1502
p1503
a(g100
VSED
p1504
p1505
a(g138
V)

p1506
a(g6
V
p1507
a(g6
V-e

p1508
p1509
a(g6
V
p1510
a(g281
V's|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}|

p1511
p1512
a(g6
V
p1513
a(g262
V\u005c\u000a

p1514
p1515
a(g6
V
p1516
p1517
a(g138
VS$

p1518
p1519
a(g100
VPATCH_WRKSR

p1520
p1521
a(g138
V)

p1522
a(g6
V/Misc/python-config.in

p1523

Open Source Used In Virtualized Infrastructure Manager 3.2.2

2520
V
\u0000a\u0000a

if defined(WITH_FPECTL) && ${ARCH} == i386\u0000a

VMKDIR

VMKDIR

V

VMKDIR

VMKDIR

VMKDIR

VMKDIR

V

VMKDIR

VMKDIR

VMKDIR

VMKDIR

VMKDIR

VMKDIR

VMKDIR

VMKDIR

VMKDIR

VMKDIR

VMKDIR

VMKDIR

VMKDIR

VMKDIR

VMKDIR
tp1566
a(g100
VECHO
p1567
tp1568
a(g138
V)
tp1569
a(g6
V
tp1570
a(g255
V"fpectl fpectlmodule.c"

p1571
tp1572
a(g6
V

V>>
p1574
tp1575
a(g6
V

V

V$\{p1577
tp1578
a(g100
VWRKSRC
p1579
tp1580
a(g138
V}

V/Modules/Setup.dist

p1582
tp1583
a(g6
V\u000a

p1584
a(g27
V.endif\u000a

p1585
tp1586
a(g6

VSHARED_WRK_SRC
p1627
tp1628
a\{g138
V\}
tp1629
a\{g6
V
p1630
a\{g6
V-sf
p1631
tp1632
a\{g6
V
p1633
a\{g6
V-
tp1634
a\{g6
V\000a
p1635
tp1636
a\{g138
V$\}
p1637
tp1638
a\{g100
VLN
p1639
tp1640
a\{g138
V\}
tp1641
a\{g6
V
tp1642
a\{g6
V-sf
p1643
tp1644
a\{g6
V
p1645
a\{g138
V$\}
p1646
tp1647
V-e
p1669
tp1670
atg6
V
tp1671
atg281
V's,^\u005c(LDLIBRARY=\u005c1libpython\u005c(VERSION).so,'
p1672
tp1673
atg6
V
tp1674
atg262
V\u005c\u000a
p1675
tp1676
atg6
V
p1677
tp1678
atg6
V-e
p1679
tp1680
atg6
V
tp1681
atg281
V's,^\u005c(BLDLIBRARY=\u005c1-L. -lpython\u005c(VERSION),'
p1682
tp1683
atg6
V
tp1684
atg262
V\u005c\u000a
p1685
tp1686
atg6
V
p1687
tp1688
atg6
V-e
p1689
tp1690
atg6
VSHARED_WRKSRC

V/Makefile

V\u0000a\u0000a

Vpre-build:

Vcd

V\u0000a

V
tp1776
a(g138
V$\
)p1777
tp1778
a(g100
VMAKE
)p1779
tp1780
a(g138
V\
)p1781
a(g6
V
)tp1782
a(g6
Vlib
)p1783
tp1784
a(g138
V$\
)p1785
tp1786
a(g100
VPYTHON_VERSION
)p1787
tp1788
a(g138
V\
)p1789
a(g6
V.so
)p1790
tp1791
a(g6
V
)tp1792
a(g6
Vpython;
)p1793
tp1794
a(g6
V
)tp1795
a(g262
V\u000c\u000a
)p1796
tp1797
p1818
tp1819
a[g138
V$\{ 
p1820
tp1821
a[g100
VPYTHON_VERSION 
p1822
tp1823
a[g138
V\} 
tp1824
a[g6 
V.so.1; 
p1825
tp1826
a[g6 
V 
tp1827
a[g262 
V\u005c\u000a 
p1828
tp1829
a[g6 
V 
tp1830
a[g138 
V$\} 
p1831
tp1832
a[g100 
VLN 
p1833
tp1834
a[g138 
V\} 
tp1835
a[g6 
V 
tp1836
a[g6 
V-f 
p1837
tp1838
a[g6 
V 
tp1839
Vpython
p1840
tp1841
a(g6
V
tp1842
a(g138
V$

p1843
tp1844
a(g100
VPYTHON_VERSION
p1845
tp1846
a(g212
V:
tp1847
a(g100
VS
tp1848
a(g212
V/thon/thon-shared/
p1849
tp1850
a(g138
V]

tp1851
a(g6
V\u000a\u000a
p1852
tp1853
a(g6
Vpre-su-install:
p1854
tp1855
a(g6
V\u000a
p1856
tp1857
a(g27
V.for platform in ${PLATFORMS}\u000a
p1857
tp1858
a(g6
V

tp1859
a(g138
V$
VMKDIR

V

platform

V

V

V

V

V

V

V
V$|
p1881
tp1882
a(g100
VINSTALL_DATA
p1883
tp1884
a(g138
V|
tp1885
a(g6
V
ntp1886
a(g138
V$
|p1887
tp1888
a(g100
VWRKSRC
p1889
tp1890
a(g138
V|
tp1891
a(g6
V/Lib/
p1892
tp1893
a(g138
V$
|p1894
tp1895
a(g100
Vplatform
p1896
tp1897
a(g138
V|
tp1898
a(g6
V/
tp1899
a(g138
V$
p1900
tp1901
a(g100
Vfile
If OpenSSL 0.9.8 is detected, the _sha256,512 module won't be installed.
Open Source Used In Virtualized Infrastructure Manager 3.2.2

2546

Post-install:
@# install config providers

V
VINSTALL_SCRIPT
p2067
tp2068
at(g138
V} tp2069
at(g6
V tp2070
at(g138
V${ p2071
tp2072
at(g100
VWRKDIR
p2073
tp2074
at(g138
V} tp2075
at(g6
V/ tp2076
at(g138
V${ p2077
tp2078
at(g100
VPYTHON_VERSION
p2079
tp2080
at(g138
V} tp2081
at(g6
V-config p2082
tp2083
at(g6
V tp2084
at(g138
V${ p2085
tp2086
at(g100
VPREFIX p2087
Open Source Used In Virtualized Infrastructure Manager 3.2.2

2549

V: tp2110
V

V/thon/thon-shared/
p2112
V

V-config
p2115
V

V

V-config
p2115
V

V

V

V

V

V

V

V

V
p2130
p2131
a(g100
VINSTALL_PROGRAM
p2132
tp2133
a(g138
V)
tp2134
a(g6
V
tp2135
a(g138
V${

p2136
tp2137
a(g100
VSHARED_WRK_SRC
p2138
tp2139
a(g138
V)

p2140
a(g6
V/lib
p2141
tp2142
a(g138
V$

p2143
tp2144
a(g100
VPYTHON_VERSION
p2145
tp2146
a(g138
V)

p2147
a(g6
V.so.1
p2148
tp2149
a(g6
V
tp2150
a(g262
V\u005c\u000a
V\u0005c\u000a
p2151
a(g6
\u0000a
p2240
tp2241
a(g138
V$
)p2242
tp2243
a(g100
VINSTALL_PROGRAM
p2244
tp2245
a(g138
V$
)p2246
a(g6
V
tp2247
a(g262
V\u005c
p2248
tp2249
a(g6
V
p2250
tp2251
a(g138
V$
)p2252
tp2253
a(g100
VSHARED_WRKSRCP2254
tp2255
a(g138
V$
)p2256
a(g6
V/
tp2257
a(g138
V$
)p2258
tp2259
a(g100
VPYTHON_VERSION
p2260
tp2261
V

@ additional files installing by ports

prefix

/bin

@## additional files installing by ports
Open Source Used In Virtualized Infrastructure Manager 3.2.2

2558
VMKDIR

VMANPREFIX

VINSTALLED_MAN
VPYTHON_VERSION

if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}

for

in


VSBIN_SCRIPTS
```bash
V
a@g138
Vdone
p2474
tp2475
a@g6
V\u0000a
tp2476
a@g27
V.endif\u0000a
p2477
tp2478
a@g6
V\u0000a
tp2479
a@g27
V.$(NOPORTDOCS)\u0000a
p2480
tp2481
a@g6
V
a@g6
V@
tp2483
a@g138
V$

p2484
tp2485
a@g100
VMKDIR
p2486
tp2487
a@g138
V}
tp2488
a@g6
V
tp2489
a@g138
V$

p2490
tp2491
a@g100
VTOOLSDIR
p2492
tp2493
```
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2569
1.83 python-PyJWT 1.5.3 :1

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1.84 python-pyudev 0.21.0 :1

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1.85 python-scoketio 1.7.1

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1.86 python-tabulate 0.7.5
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1.87 PyYAML 3.13
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**1.88 pyzmq 16.0.2**

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1.95 rt-setup 1.53 :4.el6rt

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Name: rt-setup
Version: 1.53
Release: 4% { ?dist }
License: GPL+
Summary: Setup RT environment details
Group: System Environment/Base
Source: realtime.conf
Source1: rt-setup-kdump
Source2: mrg-rt.rules
Source3: kernel-is-rt
Source4: rt-setup.sysconfig
Source5: rt-setup.sysvinit
Source6: slub_cpu_partial_off
Source7: rt-setup.dracut

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1.102 sys 1c95834

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1.103 systemd 219 :62.el7_6.6
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__contains_word () {
    local w word=$1; shift
    for w in "$@"; do
        [[ $w = "$word" ]] && return
    done
    done
}

__journal_fields=(MESSAGE{,_ID} PRIORITY CODE_{FILE,LINE,FUNC} ERRNO SYSLOG_{FACILITY,IDENTIFIER,PID} COREDUMP_EXE _{P,U,G}ID _COMM _EXE _CMDLINE _AUDIT_{SESSION,LOGINUID} _SYSTEMD_{CGROUP,SESSION,UNIT,OWNER_UID} _SELINUX_CONTEXT _SOURCE_REALTIME_TIMESTAMP _{BOOT,MACHINE} _ID _HOSTNAME _TRANSPORT _KERNEL_{DEVICE,SUBSYSTEM} _UDEV_{SYSNAME,DEVNODE,DEVLINK} __CURSOR __{REALTIME,MONOTONIC}_TIMESTAMP)

coredumpctl() {
    local i verb comps
    local cur=${COMP_WORDS[COMP_CWORD]} prev=${COMP_WORDS[COMP_CWORD-1]}
    __contains_word comp
local OPTS=’-h --help --version --no-pager --no-legend -o --output -F --field -l’

local -A VERBS=(
    [LIST]=’list’
    [DUMP]=’dump gdb’
)

if __contains_word "$prev" --output -o; then
    comps=$( compgen -A file -- "$cur" )
    compopt -o filenames
elif __contains_word "$prev" --FIELD -F; then
    comps=$( compgen -W ‘${__journal_fields[*]}’ -- "$cur" )
elif [[ $cur = -* ]]; then
    comps=${OPTS}
elfi__contains_word "$prev" ${VERBS[*]} &&
    ! __contains_word ${COMP_WORDS[COMP_CWORD-2]} --output -o -F --field; then
        compopt -o nospace
        COMPREPLY=$ (compgen -W ‘$({__journal_fields[*]}’ -S= -- "$cur")
    return 0
elif [[ $cur = *=* ]]; then
    mapfile -t field_vals < <(coredumpctl -F "${prev%=}" 2>/dev/null)
    COMPREPLY=$ (compgen -W ‘${field_vals[*]}’ -- "${cur#=}")
else
    for ((i=0; i <= COMP_CWORD; i++)); do
        if __contains_word "${COMP_WORDS[i]}" ${VERBS[*]}; then
            verb=${COMP_WORDS[i]}
            break
        fi
    done
    fi

    if [[ -z $verb ]]; then
        comps=${VERBS[*]}
    elif __contains_word "$verb" ${VERBS[LIST]} ${VERBS[DUMP]}; then
        comps=""
    fi

    COMPREPLY=$ (compgen -W ‘$comps’ -- "$cur")
    return 0

}

complete -F _coredumpctl coredumpctl

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Version 3, 29 June 2007

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1.112 tzdata 2019a :1.el7

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1.113 urllib3 1.22

1.114 vmtp 2.5.0 :5.el7_osp8.cisco

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Iperf performance test
Mark Gates
Ajay Tirumala
Jim Ferguson
Jon Dugan
Feng Qin
Kevin Gibbs
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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 * for more details.
 *
 * Based on nttcp
 * Developed by Bill Fink, billfink@mindspring.com
 * and Rob Scott, rob@hpmo.hpc.mil
 * Latest version available at:
 * http://nuttcp.net/nuttcp/beta/
 *
 * Test TCP connection.  Makes a connection on port 5000(ctl)/5101(data)
 * and transfers fabricated buffers or data copied from stdin.
 *
 * Run nuttcp with no arguments to get a usage statement
 *
 * Modified for operation under 4.2BSD, 18 Dec 84
 *  T.C. Slattery, USNA
 * Minor improvements, Mike Muuss and Terry Slattery, 16-Oct-85.
 *
 * 8.1.4, Rob Scott, 1-Nov-16
 *Fix to allow compile with -Werror=format-security as noted by Dhiru Kholia in fedora bug 1037224
 *Fix missing brackets caught by -Wmissing-braces
 * Add code to print out address family of connect/accept
 * Add code to translate v4mapped addresses
* 8.1.3, Bill Fink, 9-Sep-16
* Fix to allow direct I/O on block devices
* Fix parsing of "-R i[j][s][h][i][#/]" (blank between 'R' and 'i')
* Updated Copyright notice for new year

* 8.1.2, Bill Fink, 5-Sep-16
* Fix to not exercise 8.0.1 and 8.1.1 features for non-Linux systems
* Changed nuttcp site to http://nuttcp.net/nuttcp/beta/
* Added define test for NOT_LINUX to undefine LINUX for build testing

* 8.1.1, Bill Fink, 31-Aug-16
* Add "-Ris##" option to emulate smoothed slow start behavior (Linux only)
* Updated Copyright notice for new year

* 7.3.4, Rob Scott & Bill Fink, 18-Jul-16
* Use clock_gettime() on Windows/CYGWIN and Linux (if available)

* 7.3.3, Rob Scott, 1-May-15
* Fix tos to work for ipv6 by setting traffic class

* 7.3.2, Bill Fink, 3-Aug-14
* Allow longer server info timeout for third party via --idle-data-timeout

* 7.3.1, Bill Fink, 27-Jul-14
* Added feature to specify source port with "-p#:#" and "-P#:#"
* Updated Copyright notice for new year

* 7.2.2, Bill Fink, 25-May-13
* Fix Linux bug of exceeding MAX_EOT_WAIT_SEC on lossy large RTT path
* with large window causing false "Error: receiver not ACKing data"
* Change Linux method for draining socket send queue at EOT while waiting
* for any TCP retransmissions to complete - instead of checking
* tcpi_unacked value from TCP_INFO getsockopt() use SIOCOUTQ ioctl()
* (new error message is "Error: timeout while draining socket send queue")

* 7.2.1, Bill Fink, 26-Dec-12
* Add "-g" option to specify multicast IP address to use
* Clean up really confused transmit code for IPv4/IPv6 SSM multicast
* Bug fix from Aristeu Rozanski:
  * Crash caused by closing TCP_ADV_WIN_SCALE file even if open failed

* 7.1.6, Bill Fink, 25-Feb-12
* Add "-sd" direct I/O option for non-sinkmode (Linux only)
* Fix bug with server CPU affinity being parsed as %X instead of %d
* For non-sinkmode insure complete network block is written to stdout
* Above fixes nuttscp bug seen with --copy-dir getting premature EOF
* Updated Copyright notice for new year
* Whitespace style cleanups

* 7.1.5, Rob Scott, 19-Jul-11
* Not every system has ERESTART added in 7.1.4, wrapped in ifdef

* 7.1.4, Bill Fink, 30-May-11
* Updated Copyright notice
* Use _D HAVE_SS_FAMILY to override _AIX workaround for newer AIX
* AIX can get ERESTART rather than EINTR/EAGAIN error on interrupted I/O
* Fix non-Linux systems to properly count TCP retrans for multiple streams
* Allow xinetd nuttcp server to handle both IPv4 & IPv6 if no explicitaf
*Detect EOD for non-sinkmode UDP transfers
*Suppress bogus warning when using maximum size UDP packet
* 7.1.3, Bill Fink, 1-Apr-10
*Fix compiler warnings generated by Ubuntu 9.x gcc 4.3.x/4.4.x versions
*(to see warnings compile with -DWANT_WUR)
* 7.1.2, Bill Fink, 23-Jan-10
*Updated Copyright notice
*Terminate non-sinkmode after specified file size with "-n" option
*Allow multilink aggregation with "-N##m" option to work for receive
*Add "-sz" zero copy option for non-sinkmode when input is a regular file
*Fix compiler warnings about strict-aliasing rules for variable group
*Remove "-Sf" forced server mode from Usage: statement
*Fix zeroing of clientaddr6 during server cleanup
*Fix freaddrinfo() processing during cleanup
*Change manually started oneshot server to have parent process just exit
*Some minor whitespace cleanup
* 7.1.1, Bill Fink, 24-Dec-09
*Provide summary TCP retrans info for multi-stream TCP
*Fix bug with retrans interval info when -fparse
*Add "+stride" or "+n.n.n.n" syntax for multi-stream TCP (IPv4)
*Fix third party bug with "-xe" option adding extraneous 't' character
*Add optional client-side name resolution for third party host
*Add "-N##m" option for multilink aggregation for multiple streams
*Add "-xc##/#" and "-P##/#" options to Usage: statement
*Some minor whitespace cleanup
* 7.0.1, Bill Fink, 18-Sep-09
*Enable jitter measurements with "-j" option
*Enable one-way delay measurements with "-o" option
*Fix bug with RTT and -fparse
* 6.2.10, Bill Fink, 1-Aug-09
*Change ctl/data port checks to < 1024 instead of < 5000
*Fix "--idle-data-timeout" Usage: statement for new default minimum
*Improve transmit performance with "-i" by setting poll() timeout to 0
*Remove commented out code for unused normal_eod
*Don't output interval retrans info if non-sinkmode (for nuttscp)
* 6.2.9, Bill Fink, 24-Jun-09
*Make retrans info reporting work again on newer Linux distros
*Skip check for unACKed data at end of transfer if -DBROKEN_UNACKED
* 6.2.8, Bill Fink, 8-Jun-09
*Play nice with iperf (change default data port to 5101)
*Delay sending of server "OK" until after successful server bind()
*Client check for server errors before starting data transfer
*Continue checking for server output while draining client transmission
*Correct "server not ACKing data" error message (server -> receiver)
*Add "--packet-burst" option for Rob
*Fix "--idle-data-timeout" Usage: statement for client
*Improve accuracy of retrans info timing synchronization (client xmitter)
*Change reference to nuttcp repository from ftp:// to http://
*Fix bug affecting nuttscp introduced in 6.2.4 (not honoring oneshot)
*Whitespace cleanup: get rid of \(<\text{tab}>\langle\text{spaces}\rangle\text{<tab>}, \text{<tab>}$, \& \langle\text{spaces}\rangle$
*Whitespace cleanup: convert 8 spaces to \text{<tab>} where appropriate
* 6.2.7, Bill Fink, 22-May-09
*Allow rate limit to be exceeded temporarily by \(n\) packets ("-R\text{xxx}/n")
*Fix several reqval parameter settings
* 6.2.6, Bill Fink, 17-Apr-09
*Allow setting server CPU affinity from client via "-xs" option
*Allow setting client \& server CPU affinity via third party
*Fix bug with option processing when reqval is set
* 6.2.5, Bill Fink, 16-Apr-09
*Allow passing of third party control port via ".Pctlport/ctlport3"
*Up default idle data minimum to 15 sec to better handle net transients
*Don't reset nstream until after last use (fix getaddrinfo() memory leak)
* 6.2.4, Bill Fink, 10-Apr-09
*Fix bug with simultaneous server connections to manually started server
* 6.2.3, Bill Fink, 5-Apr-09
*Add "-xc" option to set CPU affinity (Linux only)
*Fix Usage: statement: "--idle-data-timeout" both server \& client option
*Don't reset priority on server cleanup
*Fix priority output for ".fparse"
* 6.2.2, Bill Fink, 3-Apr-09
*Fix bad third party bug causing \(>=\) 1 minute transfers to silently fail
*Fix Usage: statement: "--idle-data-timeout" not just a server option
* 6.2.1, Rob Scott, 22-Mar-09
*Added IPv6 and SSM MC support
*Ported from Rob's 5.5.5 based code by Bill Fink
* 6.1.5, Bill Fink, 5-Mar-09
*Fix client lockup with third party when network problem (for scripts)
* 6.1.4, Bill Fink, 5-Jan-09
*Updated Copyright notice
*Bugfix: set chk_idle_data on client (now also checks no data received)
*Use argv[0] instead of "nuttcp" for third party
*Bugfix: give error message again on error starting server
* 6.1.3, Bill Fink, 17-Sep-08
*Timeout client accept() too and give nice error message (for scripts)
* 6.1.2, Bill Fink, 29-Aug-08
*Don't wait forever for unacked data at EOT (limit to 1 minute max)
*Extend no data received protection to client too (for scripts)
*Give nice error messages to client for above cases
*Don't hang getting server info if server exited (timeout reads)
* 6.1.1, Bill Fink, 26-Aug-08
*Remove beta designation
*Report RTT by default (use "-f-rtt" to suppress)
*Moved RTT info to "connect to" line
*Correct bogus IP frag warning for e.g. "-l1472" or "-l8972"
*Don't report interval host-retrans if no data rcvd (e.g. initial PMTU)
*Correct reporting of retrans info with ".fparse" option
*Correct reporting of RTT with "+F" flip option
*Report doubled send and receive window sizes (for Linux)
*Add report of available send and receive window sizes (for Linux)
*Touchup TODO list to remove some already completed items
  6.0.7, Bill Fink, 19-Aug-08
*Add delay (default 0.5 sec) to "-a" option & change max retries to 10
*Updated Copyright notice
  6.0.6, Bill Fink, 11-Aug-08
*Delay server forking until after listen() for better error status
*Above suggested by Hans Blom (jblom@science.uva.nl)
*Make forced server mode the default behavior
*Check address family on getpeername() so "ssh host nuttcp -S" works
*Add setsid() call for manually started server to create new session
*Some minor code cleanup
  6.0.5, Bill Fink, 10-Aug-08
*Allow "-s" from/to stdin/stdout with "+1" oneshot server mode
*Switch beta vers message to stderr to not interfere with "-s" option
*Don't set default timeout if "-s" specified
*Give error message for "-s" with "-S" (xinetd or manually started)
  6.0.4, Bill Fink, 18-Jul-08
*Forgot about 3rd party support for RTT info - fix that
  6.0.3, Bill Fink, 17-Jul-08
*A better (and accurate) way to get RTT info (and not just Linux)
  6.0.2, Bill Fink, 16-Jul-08
*Add RTT info to brief output for Linux
  6.0.1, Bill Fink, 17-Dec-07
*Add reporting of TCP retransmissions (interval reports on Linux TX only)
*Add reporting of data transfer RTT for verbose Linux output
*Add beta version messages and "+-f-beta" option to suppress
*Automatically switch "classic" mode to oneshot server mode
*Fix UDP loss info bug not updating stream_idx when not need_swap
*Fix compiler warning doing sprintf of timeout
*Correct comment on NODROPS define
  5.5.5, Bill Fink, 1-Feb-07
*Change default MC addr to be based on client addr instead of xmit addr
  5.5.4, Bill Fink, 3-Nov-06
*Fix bug with negative loss causing huge drop counts on interval reports
*Updated Copyright notice and added GPL license notice
  5.5.3, Bill Fink, 23-Oct-06
*Fix bug with "+Ri" instantaneous rate limiting not working properly
  5.5.2, Bill Fink, 25-Jul-06
*Make manually started server multi-threaded
*Add "+-single-threaded" server option to restore old behavior
*Add "+a" client option to retry a failed server connection "again"
*(for certain possibly transient errors)
  5.5.1, Bill Fink, 22-Jul-06
*Fix bugs with nbuf_bytes and rate_pps used with 3rd party
*Pass "-D" option to server (and also make work for third party)
*Allow setting precedence with "-c##p"
* 5.4.3, Rob Scott & Bill Fink, 17-Jul-06
*Fix bug with buflen passed to server when no buflen option specified
*(revert 5.3.2: Fix bug with default UDP buflen for 3rd party)
*Better way to fix bug with default UDP buflen for 3rd party
*Trim trailing 'n' character from err() calls
*Use fcntl() to set O_NONBLOCK instead of MSG_DONTWAIT to send() ABORT
*(and remove MSG_DONTWAIT from recv() because it's not needed)
*Don't re-initialize buflen at completion of server processing
*(non inetd: is needed to check for buffer memory allocation change,
*caused bug if smaller "-l" followed by larger default "-l")
* 5.4.2, Bill Fink, 1-Jul-06
*Fix bug with interrupted UDP receive reporting negative packet loss
*Make sure errors (or debug) from server are propagated to the client
*Make setsockopt SO_SNDBUF/SO_RCVBUF error not be fatal to server
*Don't send stderr to client if nofork is set (manually started server)
* 5.4.1, Bill Fink, 30-Jun-06
*Fix bug with UDP reporting > linerate because of bad correction
*Send 2nd UDP BOD packet in case 1st is lost, e.g. waiting for ARP reply
*(makes UDP BOD more robust for new separate control and data paths)
*Fix bug with interval reports after EOD for UDP with small interval
*Don't just exit inetd server on no data so can get partial results
*(keep an eye out that servers don't start hanging again)
*Make default idle data timeout 1/2 of timeout if interval not set
*(with a minimum of 5 seconds and a maximum of 60 seconds)
*Make server send abort via urgent TCP data if no UDP data received
*(non-interval only: so client won't keep transmitting for full period)
*Workaround for Windows not handling TCP_MAXSEG getsockopt()
* 5.3.4, Bill Fink, 21-Jun-06
*Add "--idle-data-timeout" server option
*(server ends transfer if no data received for the specified
*timeout interval, previously it was a fixed 60 second timeout)
*Shutdown client control connection for writing at end of UDP transfer
*(so server can cope better with loss of all EOD packets, which is
*mostly of benefit when using separate control and data paths)
* 5.3.3, Bill Fink & Mark S. Mathews, 18-Jun-06
*Add new capability for separate control and data paths
*(using syntax: nuttcp ctl_name_or_IP/data_name_or_IP)
*Extend new capability for multiple independent data paths
*(using syntax: nuttcpctl/data1/data2/.../datan)
*Above only supported for transmit or flipped/reversed receive
*Fix -Wall compiler warnings on 64-bit systems
*Make manually started server also pass stderr to client
*(so client will get warning messages from server)
* 5.3.2, Bill Fink, 09-Jun-06
*Fix bug with default UDP buflen for 3rd party
*Fix compiler warnings with -Wall on FreeBSD
*Give warning that windows doesn't support TCP_MAXSEG
* V5.3.1, Rob Scott, 06-Jun-06
  * Add "-c" COS option for setting DSCP/TOS setting
  * Fix builds on latest MacOS X
  * Fix bug with 3rd party unlimited rate UDP not working
  * Change "-M" option to require a value
  * Fix compiler warnings with -Wall (thanks to Daniel J Blueman)
  * Remove 'v' from nuttcp version (simplify RPM packaging)
* V5.2.2, Bill Fink, 13-May-06
  * Have client report server warnings even if not verbose
* V5.2.1, Bill Fink, 12-May-06
  * Pass "-M" option to server so it also works for receives
  * Make "-uu" be a shortcut for "-u -Ru"
* V5.1.14, Bill Fink, 11-May-06
  * Fix cancellation of UDP receives to work properly
  * Allow easy building without IPv6 support
  * Set default UDP buflen to largest 2^n less than MSS of ctlconn
  * Add /usr/local/sbin and /usr/etc to path
  * Allow specifying rate in pps by using 'p' suffix
  * Give warning if actual send/receive window size is less than requested
  * Make UDP transfers have a default rate limit of 1 Mbps
  * Allow setting MSS for client transmitter TCP transfers with "-M" option
  * Give more precision on reporting small UDP percentage data loss
  * Disallow UDP transfers in "classic" mode
  * Notify when using "classic" mode
* V5.1.13, Bill Fink, 8-Apr-06
  * Make "-Ri" instantaneous rate limit for very high rates more accurate
  * (including compensating for microsecond gettimeofday() granularity)
  * Fix bug giving bogus time/stats on UDP transmit side with "-Ri"
  * Allow fractional rate limits (for 'm' and 'g' only)
* V5.1.12, Bill Fink & Rob Scott, 4-Oct-05
  * Terminate server receiver if client control connection goes away
  * or if no data received from client within CHECK_CLIENT_INTERVAL
* V5.1.11, Rob Scott, 25-Jun-04
  * Add support for scoped ipv6 addresses
* V5.1.10, Bill Fink, 16-Jun-04
  * Allow 'b' suffix on "-w" option to specify window size in bytes
* V5.1.9, Bill Fink, 23-May-04
  * Fix bug with client error on "-d" option putting server into bad state
  * Set server accept timeout (currently 5 seconds) to prevent stuck server
  * Add nuttcp version info to error message from err() exit
* V5.1.8, Bill Fink, 22-May-04
  * Allow 'd|D' suffix to "-T" option to specify days
  * Fix compiler warning about unused variable cp in getoptvalp routine
  * Interval value check against timeout value should be >=
* V5.1.7, Bill Fink, 29-Apr-04
  * Drop "-nb" option in favor of "-n###[k|m|g|l|p]"
* V5.1.6, Bill Fink, 25-Apr-04
  * Fix bug with using interval option without timeout
* V5.1.5, Bill Fink, 23-Apr-04
* Modification to allow space between option parameter and its value
* Permit 'k' or 'm' suffix on "-l" option
* Add "-nb" option to specify number of bytes to transfer
* Permit 'k', 'm', 'g', 't', or 'p' suffix on "-n" and "-nb" options
* V5.1.4, Bill Fink, 21-Apr-04
* Change usage statement to use standard out instead of standard error
* Fix bug with interval > timeout, give warning and ignore interval
* Fix bug with counting error value in nbytes on interrupted transfers
* Fix bug with TCP transmitted & received nbytes not matching
* Merge "-t" and "-r" options in Usage: statement
* V5.1.3, Bill Fink, 9-Apr-04
* Add "-Slf" force server mode (useful for starting server via rsh/ssh)
* Allow non-root user to find nuttcp binary in "."
* Fix bug with receives terminating early with manual server mode
* Fix bug with UDP receives not terminating with "-Ri" option
* Clean up output formatting of nbuf (from "%d" to "%llu")
* Add "-SP" to have 3rd party use same outgoing control port as incoming
* V5.1.2, Bill Fink & Rob Scott, 18-Mar-04
* Fix bug with nbuf wrapping on really long transfers (int -> uint64_t)
* Fix multicast address to be unsigned long to allow shift
* Add MacOS uint8_t definition for new use of uint8_t
* V5.1.1, Bill Fink, 8-Nov-03
* Add IPv4 multicast support
* Delay receiver EOD until EOD1 (for out of order last data packet)
* Above also drains UDP receive buffer (wait for fragmentation reassembly)
* V5.0.4, Bill Fink, 6-Nov-03
* Fix bug reporting 0 drops when negative loss percentage
* V5.0.3, Bill Fink, 6-Nov-03
* Kill server transmission if control connection goes away
* Kill 3rd party nuttcp if control connection goes away
* V5.0.2, Bill Fink, 4-Nov-03
* Fix bug: some dummy wasn't big enough :-)
* V5.0.1, Bill Fink, 3-Nov-03
* Add third party support
* Correct usage statement for "-xt" traceroute option
* Improved error messages on failed options requiring client/server mode
* V4.1.1, David Lapsley and Bill Fink, 24-Oct-03
* Added "-fparse" format option to generate key=value parsable output
* Fix bug: need to open data connection on abortconn to clear listen
* V4.0.3, Rob Scott, 13-Oct-03
* Minor tweaks to output format for alignment
* Interval option "-i" with no explicit value sets interval to 1.0
* V4.0.2, Bill Fink, 10-Oct-03
* Changed "-xt" option to do both forward and reverse traceroute
* Changed to use brief output by default ("-v" for old default behavior)
* V4.0.1, Rob Scott, 10-Oct-03
* Added IPv6 code
*Changed inet get functions to protocol independent versions
*Added fakepoll for hosts without poll() (macosx)
*Added ifdef to only include setprio if os supports it (non-win)
*Added bits to handle systems without new inet functions (solaris < 2.8)
*Removed SYSV obsolete code
*Added ifdef and code to handle cygwin and beginning of windows support
*Window size can now be in meg (m|M) and gig (g|G)
*Added additional directories to search for traceroute
*Changed default to transmit, time limit of 10 seconds, no buffer limit
*Added (h|H) as option to specify time in hours
*Added getservbyname calls for port, if all fails use old defaults
*Changed sockaddr to sockaddr_storage to handle v6 addresses
* v3.7.1, Bill Fink, 10-Aug-03
*Add "-fdebugpoll" option to help debug polling for interval reporting
*Fix Solaris compiler warning
*Use poll instead of separate process for interval reports
* v3.6.2, Rob Scott, 18-Mar-03
*Allow setting server window to use default value
*Cleaned out BSD42 old code
*Marked SYSV code for future removal as it no longer appears necessary
*Also set RCVBUF/SNDBUF for udp transfers
*Changed transmit SO_DEBUG code to be like receive
*Some code rearrangement for setting options before accept/connect
* v3.6.1, Bill Fink, 1-Mar-03
*Add -xP nuttcp process priority option
*Add instantaneous rate limit capability ("-Ri")
*Don't open data connection if server error or doing traceroute
*Better cleanup on server connection error (close open data connections)
*Don't give normal nuttcp output if server error requiring abort
*Implement -xt traceroute option
* v3.5.1, Bill Fink, 27-Feb-03
*Don't allow flip option to be used with UDP
*Fix bug with UDP and transmit interval option (set stdin unbuffered)
*Fix start of UDP timing to be when get BOD
*Fix UDP timing when don't get first EOD
*Fix ident option used with interval option
*Add "-f-percentloss" option to not give %loss info on brief output
*Add "-f-drops" option to not give packet drop info on brief output
*Add packet drop info to UDP brief output (interval report and final)
*Add "-frunningtotal" option to give cumulative stats for "-i"
*Add "-fdebuginterval" option to help debug interval reporting
*Add "-fxmitstats" option to give transmitter stats
*Change flip option from "-f" to "-F"
*Fix divide by zero bug with "-i" option and very low rate limit
*Fix to allow compiling with Irix native compiler
*Fix by Rob Scott to allow compiling on MacOS X
* v3.4.5, Bill Fink, 29-Jan-03
*Fix client/server endian issues with UDP loss info for interval option
* v3.4.4, Bill Fink, 29-Jan-03
  * Remove some debug printout for interval option
  * Fix bug when using interval option reporting 0.000 MB on final
* v3.4.3, Bill Fink, 24-Jan-03
  * Added UDP approximate loss info for interval reporting
  * Changed nbytes and pbytes from double to uint64_t
  * Changed SIGUSR1 to SIGTERM to kill sleeping child when done
* v3.4.2, Bill Fink, 15-Jan-03
  * Make <control-C> work right with receive too
* v3.4.1, Bill Fink, 13-Jan-03
  * Fix bug interacting with old servers
  * Add "-f" flip option to reverse direction of data connection open
  * Fix bug by disabling interval timer when server done
* v3.3.2, Bill Fink, 11-Jan-03
  * Make "-i" option work for client transmit too
  * Fix bug which forced "-i" option to be at least 0.1 seconds
* v3.3.1, Bill Fink, 7-Jan-03
  * Added -i option to set interval timer (client receive only)
  * Fixed server bug not setting socket address family
* v3.3.0, Bill Fink, 25-Feb-02
  * Fixed bug so second <control-C> will definitely kill nuttcp
  * Changed default control port to 5000 (instead of data port - 1)
  * Modified -T option to accept fractional seconds
* v3.1.10, Bill Fink, 6-Feb-02
  * Added -I option to identify nuttcp output
  * Made server always verbose (filtering is done by client)
  * Update to usage statement
  * Minor fix to "-b" output when "-D" option is used
  * Fix bug with "-s" that appends nuttcp output to receiver data file
  * Fix bug with "-b" that gave bogus CPU utilization on > 1 hour transfers
* v3.1.9, Bill Fink, 21-Dec-01
  * Fix bug with "-b" option on SGI systems reporting 0% CPU utilization
* v3.1.8, Bill Fink, 21-Dec-01
  * Minor change to brief output format to make it simpler to awk
* v3.1.7, Bill Fink, 20-Dec-01
  * Implement "-b" option for brief output (old "-b" -> "-wb")
  * Report udp loss percentage when using client/server mode
  * Fix bug with nbytes on transmitter using timed transfer
  * Combined send/receive window size printout onto a single line
* v3.1.6, Bill Fink, 11-Jun-01
  * Fixed minor bug reporting error connecting to inetd server
* Previously, Bill Fink, 7-Jun-01
  * Added -h (usage) and -V (version) options
  * Fixed SGI compilation warnings
  * Added reporting server version to client
  * Added version info and changed ttcp prints to nuttcp
  * Fixed bug with inetd server and client using -r option
  * Added ability to run server from inetd
* Added udp capability to server option
* Added -T option to set timeout interval
* Added -ws option to set server window
* Added -S option to support running receiver as daemon
* Allow setting UDP buflen up to MAXUDPBUFLEN
* Provide -b option for braindead Solaris 2.8
* Added printing of transmit rate limit
* Added -w option to usage statement
* Added -N option to support multiple streams
* Added -R transmit rate limit option
* Fix setting of destination IP address on 64-bit Irix systems
* Only set window size in appropriate direction to save memory
* Fix throughput calculation for large transfers (>= 2 GB)
* Fix reporting of Mb/s to give actual millions of bits per second
* Fix setting of INET address family in local socket
* Fix setting of receiver window size
* 
* TODO/Wish-List:
* Transmit interval marking option
* Allow at least some traceroute options
* Add "-ut" option to do both UDP and TCP simultaneously
* Default rate limit UDP if too much loss
* Ping option
* Other brief output formats
* Linux window size bug/feature note
* Network interface interrupts (for Linux only)
* netstat -i info
* Man page
* Forking for multiple streams
* Bidirectional option
* Graphical interface
* MTU info
* Warning for window size limiting throughput
* Auto window size optimization
* Transmitter profile and playback options
* Server side limitations (per client host/network)
* Server side logging
* Client/server security (password)
* nuttcp server registration
* nuttcp proxy support (firewalls)
* nuttcp network idle time
* 
* Distribution Status -
* OpenSource(tm)
* Licensed under version 2 of the GNU GPL
* Please send source modifications back to the authors
* Derivative works should be redistributed with a modified
* source and executable name
#include <sys/stat.h>
#include <sys/sendfile.h>
#include <sys/ioctl.h>
#include <linux/sockios.h>
#endif

/* Let's try changing the previous unwieldy check */
/* #if defined(linux) || defined(__FreeBSD__) || defined(sgi) || (defined(__MACH__) && defined(_SOCKLEN_T))
 || defined(sparc) || defined(__CYGWIN__) */
/* to the following (hopefully equivalent) simpler form like we use */
/* * for HAVE_POLL */
#endif
#if !defined(_WIN32) && (!defined(__MACH__) || defined(_SOCKLEN_T))
#include <unistd.h>
#include <sys/wait.h>
#include <strings.h>
#endif

#ifndef USE_GETTIMEOFDAY
#ifndef HAVE_CLOCK_GETTIME
#if (defined(linux) && defined(_POSIX_TIMERS) && (_POSIX_TIMERS > 0) && (__GLIBC__ >= 2) &&
(__GLIBC_MINOR__ >= 17)) || defined(__CYGWIN__)
#define HAVE_CLOCK_GETTIME
#endif
#endif
#endif

#if defined(HAVE_CLOCK_GETTIME)
#include <time.h> /* clock_gettime */
#endif

#ifndef ULLONG_MAX
#define ULLONG_MAX 18446744073709551615ULL
#endif
#define MAXRATE 0xffffffffUL

#if !defined(__CYGWIN__) && !defined(_WIN32)
#define HAVE_SETPRIO
#endif
#if defined(linux)
#define HAVE_SETAFFINITY
#endif

#if !defined(_WIN32) && (!defined(__MACH__) || defined(_SOCKLEN_T))
#define HAVE_POLL
#endif
#if defined(__APPLE__) && defined(__MACH__)
#define uint64_t u_int64_t
#define uint32_t u_int32_t
#define uint16_t u_int16_t
#define uint8_t u_int8_t
#endif

#ifdef HAVE_POLL
#include <sys/poll.h>
#else
#include "fakepoll.h" /* from missing */
#endif

#ifdef HAVE_SETAFFINITY
#include <sched.h>
#endif

#ifndef CPU_SETSIZE
#undef HAVE_SETAFFINITY
#endif

/*
 * _SOCKLEN_T is now defined by apple when they typedef socklen_t
 * EAI_NONAME has nothing to do with socklen, but on sparc without it tells
 * us it's an old enough solaris to need the typedef
 */
#if (defined(__APPLE__) && defined(__MACH__)) && !defined(_SOCKLEN_T) ||
(defined(sparc) && !defined(EAI_NONAME))
typedef int socklen_t;
#endif

#if defined(sparc) && !defined(EAI_NONAME) /* old sparc */
#define sockaddr_storage sockaddr
#define ss_family sa_family
#endif /* old sparc */

#if defined(_AIX) && !defined(HAVE_SS_FAMILY)
#define ss_family __ss_family
#endif

#if !defined(EAI_NONAME)
#include "addrinfo.h" /* from missing */
#endif

/*
 * The following macro is from openssh defines.h by Tatu Ylonen and marked "can be used freely for any purpose"
 */
#if !defined(IN6_IS_ADDR_V4MAPPED)
#define IN6_IS_ADDR_V4MAPPED(a)               
  ( (*(const __uint32_t *)(const void *)(&(a)->s6_addr[0]) == 0) && 
  (*(const __uint32_t *)(const void *)(&(a)->s6_addr[4]) == 0) && 
  (*(const __uint32_t *)(const void *)(&(a)->s6_addr[8]) == 
    ntohl(0x0000ffff)))
#endif /* !defined(IN6_IS_ADDR_V4MAPPED) */

#define BETA_STR "-beta8"
#define BETA_FEATURES "jitter/owd"

union sockaddr_union {
    struct sockaddr_storage ss;
    struct sockaddr_in sin;
    struct sockaddr_in6 sin6;
};

static struct timeval time0; /* Time at which timing started */
static struct timeval timepk; /* Time at which last packet sent */
static struct timeval timepkr; /* Time at which last packet received */
static struct timeval timepkri; /* timepkr for interval reports */
static struct timeval timep; /* Previous time - for interval reporting */
static struct timeval timetx; /* Transmitter timestamp */
static struct timeval timerx; /* Receive timestamp */
static struct rusage ru0; /* Resource utilization at the start */

static struc sigaction sigact;/* signal handler for alarm */
static struc sigaction savesigact;

#define PERF_FMT_OUT "%.4f MB in %.2f real seconds = %.2f KB/sec\n"
#define PERF_FMT_BRIEF "%10.4f MB / %6.2f sec = %9.4f Mbps %d %%%s"
#define PERF_FMT_BRIEF2 "%10.4f MB / %6.2f sec = %9.4f Mbps %d %%%s"
#define PERF_FMT_BRIEF3 " Trans: %.4f MB"
#define PERF_FMT_BRIEF4 " Tot: %.4f MB"
#define PERF_FMT_INTERVAL "%.4f MB / %6.2f sec = %9.4f Mbps" 
#define PERF_FMT_INTERVAL2 " Tot: %10.4f MB / %6.2f sec = %9.4f Mbps"
#define PERF_FMT_INTERVAL3 " Trans: %10.4f MB"
#define PERF_FMT_INTERVAL4 " Tot: %10.4f MB"
#define PERF_FMT_IN "%lf MB in %lf real seconds = %lf KB/sec = %lf Mbps\n"
#define CPU_STATS_FMT_IN "%*fuser %*fsys %*d:%*dreal %d%%"
#define CPU_STATS_FMT_IN2 "%*fuser %*fsys %*d:%*d:%*dreal %d%%"
#define LOSS_FMT " %.2f%% data loss"
#define LOSS_FMT_BRIEF " %.2f %%%loss"
#define LOSS_FMT_INTERVAL " %5.2f %%%loss"
#define LOSS_FMT5 " %.5f%% data loss"
#define LOSS_FMT_BRIEF5 " %.5f %%%loss"
#define LOSS_FMT_INTERVAL5 " %7.5f %%%loss"
#define DROP_FMT	" %lld / %lld drop/pkt"
#define DROP_FMT_BRIEF	" %lld / %lld drop/pkt"
#define DROP_FMT_INTERVAL " %5lld / %5lld ~drop/pkt"
#define JITTER_MIN
#define JITTER_AVG2
#define JITTER_MAX4
#define JITTER_IGNORE_OOO8
#define JITTER_FMT	"min-jitter = %.4f ms, avg-jitter = %.4f ms, \\
"max-jitter = %.4f ms"
#define JITTER_MIN_FMT_BRIEF " %.4f msMinJitter"
#define JITTER_AVG_FMT_BRIEF " %.4f msAvgJitter"
#define JITTER_MAX_FMT_BRIEF " %.4f msMaxJitter"
#define JITTER_FMT_INTERVAL " %.4f msMinJitter"
#define JITTER_AVG_FMT_INTERVAL " %.4f msAvgJitter"
#define JITTER_MAX_FMT_INTERVAL " %.4f msMaxJitter"
#define OWD_MIN
#define OWD_AVG2
#define OWD_MAX4
#define OWD_FMT	"min-OWD = %.4f ms, avg-OWD = %.4f ms, \\
"max-OWD = %.4f ms"
#define OWD_MIN_FMT_BRIEF " %.4f msMinOWD"
#define OWD_AVG_FMT_BRIEF " %.4f msAvgOWD"
#define OWD_MAX_FMT_BRIEF " %.4f msMaxOWD"
#define OWD_FMT_INTERVAL " %.4f msMinOWD"
#define OWD_AVG_FMT_INTERVAL " %.4f msAvgOWD"
#define OWD_MAX_FMT_INTERVAL " %.4f msMaxOWD"
#define RETRANS_FMT	"%sretrans = %d"
#define RETRANS_FMT_BRIEF " %d %sretrans"
#define RETRANS_FMT_BRIEF_STR1 " %d = %d"
#define RETRANS_FMT_BRIEF_STR2 " retrans"
#define RETRANS_FMT_INTERVAL " %5d %sretrans"
#define RETRANS_FMT_IN	"retrans = %d"
#define CWND_FMT	" cwnd = %d KB"
#define CWND_FMT_BRIEF " %d KB-cwnd"
#define CWND_FMT_BRIEF_STR1 " %d = %d"
#define CWND_FMT_BRIEF_STR2 " KB-cwnd"
#define CWND_FMT_INTERVAL " %6d KB-cwnd"
#define CWND_FMT_IN"cwnd = %d"
#define RTT_FMT	" RTT=%.3f ms"
#define RTT_FMT_BRIEF	" %.2f msRTT"
#define RTT_FMT_IN"RTT=%lf"
#define RTT_FMT_INB"RTT = %lf"
#define SIZEOF_TCP_INFO_RETRANS104

/* define NEW_TCP_INFO if struct tcp_info in /usr/include/netinet/tcp.h */
* contains tcpi_total_retrans member
*
* tcpi_rcv_rtt, tcpi_rcv_space, & tcpi_total_retrans were added
* in glibc-headers-2.7 (Fedora 8) which fortunately also defined
* TCP_MD5SIG at the same time, so key off of that
*/
#if defined(linux) && defined(TCP_MD5SIG)
#define NEW_TCP_INFO
#endif
#ifndef NEW_TCP_INFO
#define OLD_TCP_INFO
#endif

/* Parsable output formats */

#define P_PERF_FMT_OUT "megabytes=%.4f real_seconds=%.2f \\
  rate_KBps=%.2f rate_Mbps=%.4f"
#define P_PERF_FMT_BRIEF "megabytes=%.4f real_seconds=%.2f rate_Mbps=%.4f \\
  tx_cpu=%d rx_cpu=%d"
#define P_PERF_FMT_BRIEF3 " tx_megabytes=%.4f"
#define P_PERF_FMT_INTERVAL " megabytes=%.4f real_sec=%.2f rate_Mbps=%.4f" \\
  " total_megabytes=%.4f total_real_sec=%.2f"
#define P_PERF_FMT_INTERVAL2 " total_megabytes=%.4f total_real_sec=%.2f" \\
  " rate_Mbps=%.4f"
#define P_PERF_FMT_INTERVAL3 " tx_megabytes=%.4f"
#define P_PERF_FMT_INTERVAL4 " tx_total_megabytes=%.4f"
#define P_PERF_FMT_IN "megabytes=%lf real_seconds=%lf rate_KBps=%lf \\
  rate_Mbps=%lf"
#define P_CPU_STATS_FMT_IN "user=%*f system=%*f elapsed=%*d:%*d cpu=%d%%"
#define P_CPU_STATS_FMT_IN2 "user=%*f system=%*f elapsed=%*d:%*d:%*d cpu=%d%%"
#define P_LOSS_FMT " data_loss=%.5f"
#define P_LOSS_FMT_BRIEF " data_loss=%.5f"
#define P_LOSS_FMT_INTERVAL " data_loss=%.5f"
#define P_DROP_FMT " drop=%lld pkt=%lld"
#define P_DROP_FMT_BRIEF " drop=%lld pkt=%lld"
#define P_DROP_FMT_INTERVAL " drop=%lld pkt=%lld"
#define P_JITTER_FMT "msminjitter=%.4f msavgjitter=%.4f msmaxjitter=%.4f"
#define P_JITTER_MIN_FMT_BRIEF "msminjitter=%.4f"
#define P_JITTER_AVG_FMT_BRIEF "msavgjitter=%.4f"
#define P_JITTER_MAX_FMT_BRIEF "msmaxjitter=%.4f"
#define P_JITTER_MIN_FMT_INTERVAL "msminjitter=%.4f"
#define P_JITTER_AVG_FMT_INTERVAL "msavgjitter=%.4f"
#define P_JITTER_MAX_FMT_INTERVAL "msmaxjitter=%.4f"
#define P_OWD_FMT "msminOWD=%.4f msavgOWD=%.4f msmaxOWD=%.4f"
#define P_OWD_MIN_FMT_BRIEF "msminOWD=%.4f"
```c
#define P_OWD_AVG_FMT_BRIEF	" msavgOWD=%.4f"
#define P_OWD_MAX_FMT_BRIEF	" msmaxOWD=%.4f"
#define P_OWD_MIN_FMT_INTERVAL	" msminOWD=%.4f"
#define P_OWD_AVG_FMT_INTERVAL	" msavgOWD=%.4f"
#define P_OWD_MAX_FMT_INTERVAL	" msmaxOWD=%.4f"
#define P_OWD_FMT_IN		"OWD=%lf msavgOWD=%lf msmaxOWD=%lf"
#define P_RETRANS_FMT		%sretrans=%d"
#define P_RETRANS_FMT_STREAMS	 retrans_by_stream=%d"
#define P_RETRANS_FMT_BRIEF	 " %sretrans=%d"
#define P_RETRANS_FMT_INTERVAL	 %sretrans=%d"
#define P_RETRANS_FMT_IN	"retrans=%d"
#define P_CWND_FMT		" cwnd=%d"
#define P_CWND_FMT_STREAMS	" cwnd_by_stream=%d"
#define P_CWND_FMT_BRIEF	" cwnd=%d"
#define P_CWND_FMT_INTERVAL	" cwnd=%d"
#define P_CWND_FMT_IN	"cwnd=%d"
#define P_RTT_FMT		" rtt_ms=%.3f"
#define P_RTT_FMT_BRIEF		" rtt_ms=%.2f"
#define P_RTT_FMT_IN		"rtt_ms=%lf"
#define HELO_FMT	"HELO nuttcp v%d.%d.%d
"

#ifndef MAXSTREAM
#define MAXSTREAM		128
#endif
#define DEFAULT_NBUF		2048
#define DEFAULT_NBYTES		134217728	/* 128 MB */
#define DEFAULT_TIMEOUT		10.0
#define DEFAULT_UDP_RATE	1000
#define DEFAULT_MC_UDPBUFLEN	8192
#define DEFAULT_MC_UDPBUFLEN1024
#define MAXUDPBUFLEN		65507
#define LOW_RATE_HOST3		1000
#define MINMALLOC		1024
#define HI_MC			231ul
#define HI_MC_SSM		232ul
/* locally defined global scope IPv6 multicast, FF3E::8000:0-FF3E::FFFF:FFFF */
#define HI_MC6			"FF3E::8000:0"
#define HI_MC6_LEN		13
#define HI_MC6_ASM		"FF2E::0"
#define HI_MC6_ASM_LEN		8
#ifndef LISTEN_BACKLOG
#define LISTEN_BACKLOG		64
#endif
#define ACCEPT_TIMEOUT		5
#ifndef MAX_CONNECT_TRIES
#define MAX_CONNECT_TRIES	10	/* maximum server connect attempts */
#endif
```
```
#ifndef SERVER_RETRY_USEC
#define SERVER_RETRY_USEC 500000 /* server retry time in usec */
#endif

#define MAX_EOT_WAIT_SEC 60.0 /* max wait for unsent data at EOT */
#define SRVR_INFO_TIMEOUT 60 /* timeout for reading server info */
#define IDLE_DATA_MIN 15.0 /* minimum value for chk_idle_data */
#define DEFAULT_IDLE_DATA 30.0 /* default value for chk_idle_data */
#define IDLE_DATA_MAX 60.0 /* maximum value for chk_idle_data */
#define NON_JUMBO_ETHER_MSS 1448 /* 1500 - 20:IP - 20:TCP - 12:TCPOPTS */
#define TCP_UDP_HDRLEN_DELTA 12 /* difference in tcp & udp hdr sizes */
#define TCP_TIMESTAMPS_OPTLEN 12 /* size of TCP timestamps options */

#if defined(linux)
#define TCP_ADV_WIN_SCALE "/proc/sys/net/ipv4/tcp_adv_win_scale"
#endif

#define DEBUGOUTPUT "/tmp/nuttcp-debugout.foo"

#define BRIEF_RETRANSSTREAMS 0x2 /* brief per stream retrans info */
#define BRIEF_CWNDSTREAMS 0x4 /* brief per stream cwnd info */

#define XMITSTATS 0x1 /* also give transmitter stats (MB) */
#define DEBUGINTERVAL 0x2 /* add info to assist with debugging interval reports */
#define RUNNINGTOTAL 0x4 /* give cumulative stats for ".i" */
#define NODROPS 0x8 /* no packet drop stats for ".i" */
#define NOPERCENTLOSS 0x10 /* don't give percent loss for ".i" */
#define DEBUGPOLL 0x20 /* add info to assist with debugging polling */
#define PARSE 0x40 /* generate key=value parsable output */
#define DEBUGMTU 0x80 /* debug info for MTU/MSS code */
#define NORETRANS 0x100 /* no retrans stats for ".i" */
#define DEBUGRETRANS 0x200 /* output info for debugging collection */
#define NOBETAMSG 0x400 /* suppress beta version message */
#define WANTRTT 0x800 /* output RTT info (default) */
#define DEBUGJITTER 0x1000 /* debugging info for jitter option */
#define NOCWND 0x2000 /* no cwnd stats for ".i" */
#define DEBUGIRATE 0x4000 /* debugging info for irate option */

#if defined(NO_IPV6) /* Build without IPv6 support */
#undef AF_INET6
#undef IPV6_V6ONLY
#endif

void sigpipe( int signum );
void sigint( int signum );
void ignore_alarm( int signum );
```
void sigalarm( int signum );
static void err( char *s );
static void mes( char *s );
static void errmes( char *s );
void pattern( char *cp, int cnt );
void get_timeofday( struct timeval *tv, struct timezone *tz );
void prep_timer();
double read_timer( char *str, int len );
static void prusage( struct rusage *r0, struct rusage *r1, struct timeval *e, struct timeval *b, char *outp );
static void tvadd( struct timeval *tsum, struct timeval *t0, struct timeval *t1 );
static void tvsub( struct timeval *tdiff, struct timeval *t1, struct timeval *t0 );
static void psecs( long l, char *cp );
int Nread( int fd, char *buf, int count );
int Nwrite( int fd, char *buf, int count );
int delay( int us );
int mread( int fd, char *bufp, unsigned n );
int mwrite( int fd, char *bufp, unsigned n, int last_write );
char *getoptvalp( char **argv, int index, int reqval, int *skiparg );

#if defined(linux) && defined(TCPI_OPT_TIMESTAMPS)
void print_tcpinfo();
#endif

int vers_major = 8;
int vers_minor = 1;
int vers_delta = 4;
int ivers;
int rvers_major = 0;
int rvers_minor = 0;
int rvers_delta = 0;
int irvers;
int beta = 0;

struct sockaddr_in sinme[MAXSTREAM + 1];
struct sockaddr_in sinhim[MAXSTREAM + 1];
struct sockaddr_in save_sinhim, save_mc;

#else
struct sockaddr_storage frominet;

int domain = PF_UNSPEC;
int af = AF_UNSPEC;

#endif
int mc_af = AF_UNSPEC;
int explicitaf = 0;/* address family explicit specified (-4|-6) */
int fd[MAXSTREAM + 1]; /* fd array of network sockets */
int nfd;/* fd for accept call */
struct pollfd pollfds[MAXSTREAM + 4]; /* used for reading interval reports */
socklen_t fromlen;

int buflen = 64 * 1024;/* length of buffer */
int nbuflen;
int mallocsize;
char *buf;/* ptr to dynamic buffer */
unsigned long long nbuf = 0;/* number of buffers to send in sinkmode */
int nbuf_bytes = 0;/* set to 1 if nbuf is actually bytes */

/* nick code */
int sendwin=0, sendwinval=0, origsendwin=0;
socklen_t optlen;
int rcvwin=0, rcvwinval=0, origrcvwin=0;
int srvrwin=0;
/* end nick code */

#if defined(linux)
int sendwinavail=0, rcvwinavail=0, winadjust=0;
#endif
#if defined(linux) && defined(TCPI_OPT_TIMESTAMPs)
#define OLD_TCP_INFO
#define STRUCT_TCPINFO tcpinf
struct tcpinfo { /* for collecting TCP retransmission info */
struct tcp_info _tcpinf;
/* add missing structure elements */
int32_t tcpi_rcv_rtt;
int32_t tcpi_rcv_space;
int32_t tcpi_total_retrans;
} tcpinf;
#define tcpinfo_state _tcpinf.tcpi_state
#define tcpinfo_ca_state _tcpinf.tcpi_ca_state
#define tcpinfo_retransmits _tcpinf.tcpi_retransmits
#define tcpinfo_unacked _tcpinf.tcpi_unacked
#define tcpinfo_sacked _tcpinf.tcpi_sacked
#define tcpinfo_lost _tcpinf.tcpi_lost
#define tcpinfo_retrans _tcpinf.tcpi_retrans
#define tcpinfo_fackets _tcpinf.tcpi_fackets
#define tcpinfo_rtt _tcpinf.tcpi_rtt
#define tcpinfo_rttvar _tcpinf.tcpi_rttvar
#define tcpinfo_snd_ssthresh _tcpinf.tcpi_snd_ssthresh
#define tcpinfo_snd_cwnd _tcpinf.tcpi_snd_cwnd
#else
#define STRUCT_TCPINFO tcp_info
struct tcp_info tcpinf;
#define tcpinfo_state	tcpi_state
#define tcpinfo_ca_state	tcpi_ca_state
#define tcpinfo_retransmits	tcpi_retransmits
#define tcpinfo_unackedtcp_unacked
#define tcpinfo_sackedtcp_sacked
#define tcpinfo_losttcp_lost
#define tcpinfo_retransstcp_retrans
#define tcpinfo_facketscpi_fackets
#define tcpinfo_rttci_rtt
#define tcpinfo_rttvarci_rttvar
#define tcpinfo_snd_ssthreshtcp SND ssthresh
#define tcpinfo_snd_cwntcp SND cwnd
#endif
#else
#define STRUCT_TCPINFO dummy_tcp_info
struct dummy_tcp_info {
    int dummy1;
} tcpinf;
#endif

int get_retrans( int sockfd, struct STRUCT_TCPINFO *tcpinfo );

int udp = 0;/* 0 = tcp, !0 = udp */
int udplossinfo = 0;/* set to 1 to give UDP loss info for
* interval reporting */
int do_jitter = 0;/* set to 1 to enable jitter measurements */
int do_owd = 0;/* set to 1 to enable one-way delay reports */

int retransinfo = 0;/* set to 1 to give TCP retransmission info
* for interval reporting */
int force_retrans = 0;/* set to force sending retrans info */
int send_retrans = 1;/* set to 0 if no need to send retrans info */
int do_retrans = 0;/* set to 1 for client transmitter */
int read_retrans = 1;/* set to 0 if no need to read retrans info */
int got_0retrans = 0;/* set to 1 by client transmitter after
* processing initial server output
* having "0 retrans" */

int init_pkt_cwnd = 0;/* initial congestion window in packets */
int sss_pkt_cwnd = 0;/* smoothed slow start congestion window */
int cwndinfo = 0;/* set to 1 to give TCP congestion window info
* for interval reporting */
int send_cwnd = 1;/* set to 0 if no need to send cwnd info */
int do_cwnd = 0;/* set to 1 for client transmitter */
int read_cwnd = 1;/* set to 0 if no need to read cwnd info */
int need_swap;/* client and server are different endian */
int options = 0;/* socket options */
int one = 1;/* for 4.3 BSD style setsockopt() */
/* default port numbers if command arg or getserv doesn't get a port */
#define DEFAULT_PORT5101
#define DEFAULT_CTLPORT5000
#define IPERF PORT5001
unsigned short port = 0;/* TCP port number */
unsigned short srcport = 0;/* TCP source port */
unsigned short ctlport = 0;/* control port for server connection */
unsigned short srcctlport = 0;/* TCP source port for server connection */
unsigned short ctlport3 = 0;/* control port for 3rd party server conn */
int tmpport;
char *host;/* ptr to name of host */
char *stride = NULL;/* ptr to address stride for multi-stream */
char *host3 = NULL;/* ptr to 3rd party host */
int thirdparty = 0;/* set to 1 indicates doing 3rd party nuttcp */
int no3rd = 0;/* set to 1 by server to disallow 3rd party */
int forked = 0;/* set to 1 after server has forked */
int pass_ctlport = 0;/* set to 1 to use same outgoing control port 
 as incoming with 3rd party usage */
char *nut_cmd;/* command used to invoke nuttcp */
char *cmdargs[50];/* command arguments array */
char tmpargs[50][50];

#ifndef AF_INET6
#define ADDRSTRLEN 16
#else
#define ADDRSTRLEN INET6_ADDRSTRLEN
int v4mapped = 0;/* set to 1 to enable v4 mapping in v6 server */
#endif

#define HOSTNAMELEN 80
#define HOST3BUFLEN HOSTNAMELEN + 2 + ADDRSTRLEN + 1 + ADDRSTRLEN
/* host3=[=]host3addr[+host3stride] */

char hostbuf[ADDRSTRLEN];/* buffer to hold text of address */
char host3addr[ADDRSTRLEN];/* buffer to hold text of 3rd party address */
char host3buf[HOST3BUFLEN + 1];/* buffer to hold 3rd party name or address */
char clientbuf[NL_MAXHOST];/* buffer to hold client's resolved hostname */
int trans = 1;/* 0=receive, !0=transmit mode */
int sinkmode = 1;/* 0=normal I/O, !0=sink/source mode */
#ifdef (linux)
int zerocopy = 0;/* set to enable zero copy via sendfile() */
int directio = 0;/* set to enable direct I/O */
#endif
int nofork = 0;/* set to 1 to not fork server */
int verbose = 0;/* 0=print basic info, 1=print cpu rate, proc
* resource usage. */
int nodelay = 0;/* set TCP_NODELAY socket option */
unsigned long rate = MAXRATE;/* transmit rate limit in Kbps */
int maxburst = 1;/* number of packets allowed to exceed rate */
int nburst = 1;/* number of packets currently exceeding rate */
int irate = -1;/* instantaneous rate limit if set */
int iratesss = 0;/* set if emulating smoothed slow start */
double pkt_time;/* packet transmission time in seconds */
double pkt_time_ms;/* packet transmission time in milliseconds */
uint64_t irate_pk_usec;/* packet transmission time in microseconds */
double irate_pk_nsec;/* nanosecond portion of pkt xmit time */
double irate_cum_nsec = 0.0;/* cumulative nanoseconds over several pkts */
int rate_pps = 0;/* set to 1 if rate is given as pps */
double timeout = 0.0;/* timeout interval in seconds */
double interval = 0.0;/* interval timer in seconds */
double chk_idle_data = 0.0;/* server receiver checks this often */
/* for client having gone away */
double chk_interval = 0.0;/* timer (in seconds) for checking client */
int ctlconnmss;/* control connection maximum segment size */
int datamss = 0;/* data connection maximum segment size */
unsigned int tos = 0;/* 8-bit TOS field for setting DSCP/TOS */
char intervalbuf[256+2];/* buf for interval reporting */
char linebuf[256+2];/* line buffer */
int do_poll = 0;/* set to read interval reports (client xmit) */
int got_done = 0;/* set when read last of interval reports */
int reverse = 0;/* reverse direction of data connection open */
int format = 0;/* controls formatting of output */
char fmt[257];
int traceroute = 0;/* do traceroute back to client if set */
int skip_data = 0;/* skip opening of data channel */
#if defined(linux)
int multicast = 0;/* set to 1 for multicast UDP transfer */
#else
uint8_t multicast = 0;/* set to 1 for multicast UDP transfer */
#endif
int ssm = -1;/* set to 1 for Source Specific Multicast */
/* set to 0 to NOT do SSM */
/* set to -1 to have SSM follow protocol */
/* (off for ipv4, on for ipv6) */
int mc_param;
char *mc_addr = NULL;/* user specified multicast IP address */
char mcgaddr[ADDRSTRLEN];/* buffer to hold text of MC group address */
struct ip_mreq mc_group;/* holds multicast group address */
#if define AF_INET6
struct ipv6_mreq mc6_group;/* holds multicast group address */
#endif
#if define MCAST_JOIN_SOURCE_GROUP
struct group_source_req group_source_req; /* holds multicast SSM group and */
/* source information */
#endif

#ifdef HAVE_SETPRIO
int priority = 0;/* nuttcp process priority */
#endif

/* affinity and srvr_affinity need to be defined even if don't
 * HAVE_SETAFFINITY, to make parameter passing between client and
 * server work out OK, since far end may HAVE_SETAFFINITY
 * they are set to -1 so they have no effect even if don't
 * HAVE_SETAFFINITY
*/
int affinity = -1;/* nuttcp process CPU affinity */
int srvr_affinity = -1;/* nuttcp server process CPU affinity */

#ifdef HAVE_SETAFFINITY
int ncores = 1;/* number of CPU cores */
cpu_set_t cpu_set; /* processor CPU set */
#endif
long timeout_sec = 0;
struct itimerval itimer; /* for setitimer */
int srvr_helo = 1;/* set to 0 if server doesn't send HELO */
char ident[40 + 1 + 1] = "";/* identifier for nuttcp output */
int intr = 0;
int abortconn = 0;
int braindead = 0;/* for braindead Solaris 2.8 systems */
int brief = 1;/* set for brief output */
int brief3 = 1;/* for third party nuttcp */
int done = 0;/* don't output interval report if done */
int got_begin = 0;/* don't output interval report if not begun */
int two_bod = 0;/* newer versions send 2 BOD packets for UDP */
int handle_urg = 0;/* newer versions send/recv urgent TCP data */
int got_eod0 = 0;/* got EOD0 packet - marks end of UDP xfer */
int buflenopt = 0;/* whether or not user specified buflen */
int haverateopt = 0;/* whether or not user specified rate */
int clientserver = 0;/* client server mode (use control channel) */
int client = 0;/* 0=server side, 1=client (initiator) side */
int oneshot = 0;/* 1=run server only once */
int inetd = 0;/* set to 1 if server run from inetd */
pid_t pid; /* process id when forking server process */
pid_t wait_pid; /* return of wait system call */
FILE *ctlconn; /* uses fd[0] for control channel */
FILE *debugout; /* used for voluminous nuttcp debug output */
int savestdin; /* used to save real standard in */
int savestdout;/* used to save real standard out */
int firsttime = 1;/* flag for first pass through server */
struct in_addr clientaddr;/* IP address of client connecting to server */

#elifdef AF_INET6
struct in6_addr clientaddr6;/* IP address of client connecting to server */
uint32_t clientscope6;/* scope part of IP address of client */
#endif

struct hostent *addr;
extern int errno;

const char Usage[] = "
Usage: nuttcp or nuttcp -hprints this usage info\n Usage: nuttcp -Vprints version info\n Usage: nuttcp -xt [-m] hostforward and reverse traceroute to/from server\n Usage (transmitter): nuttcp [-t] [-options] [ctl_addr/][host [3rd-party] [\<in\]]\n [receiver): nuttcp -r [-options] [host [3rd-party] [\>out\]]\n-4Use IPv4\n-6Use IPv6\n#elsedef AF_INET6
-6Use IPv6\n#endif

"-c##cos dscp value on data streams (t[T suffix for full TOS field])\n-4#length of network write/read buf (default 1K|8K/udp, 64K/tcp)\n#ifdef(linux)
"-s[d][z] use stdin\stdout for data input\output instead of pattern data\n "(d' suboption uses direct I/O if input\output is regular file)\n "(z' suboption enables zero copy tx if input is regular file)\n#else
 "-use stdin\stdout for data input\output instead of pattern data\n#endif

"-n##number of source bufs written to network (default unlimited)\n-w##transmitter/receiver window size in KB (or (m|M)B or (g|G)B)\n-ws##server receive/transmit window size in KB (or (m|M)B or (g|G)B)\n-wbraindead Solaris 2.8 (sets both xmit and rcv windows)\n-p##port number to send to\listen at (default 5101)\n-p#:specify both source:destination port for -p option\n-P##port number for control connection (default 5000)\n-P#:specify both source:destination port for -P option\n-P##control port to/from 3rd-party host (default 5000)\n-use UDP instead of TCP\n-m##use multicast with specified TTL instead of unicast (UDP)\n-gxxxxuser specified multicast IP address for -m option\n-M##MSS for data connection (TCP)\n-N##number of streams (starting at port number), implies -B\n-R##transmit rate limit in Kbps (or (m|M)bps or (g|G)bps or (p)ps)\n-R##instantaneous rate limit with optional packet burst\n#ifdef(linux)
"-Ri##  emulated smoothed slow start option for -Ri option (TCP)\n"
#endif
"-T##	transmit timeout in seconds (or (m|M)inutes or (h|H)ours)\n"-v[1]able jitter measurements (assumes -u and -Ri options)\n"-enable one-way delay reports (needs synchronized clocks)\n"-i##	receiver interval reporting in seconds (or (m|M)inutes)\n"-Ixxx	identifier for nuttcp output (max of 40 characters)\n"-fip option to reverse direction of data connection open\n"-retry failed server connection \"again\" for transient errors\n"
#endif HAVE_SETPRIO
"-xP##	set nuttcp process priority (must be root)\n"
#endif
#endif HAVE_SETAFFINITY
"-xc##	set nuttcp client process CPU affinity\n"-xcs##	set nuttcp server process CPU affinity\n"-xc/#/#	set nuttcp client/server process CPU affinity\n"
#if defined(linux)
"-d	set TCP SO_DEBUG option on data socket\n"-v[v]erbose [or very verbose] output\n"-brief output (default)\n"-bradd per-stream TCP retrans info to brief summary (Linux only)\n"
#endif defined(linux)
"-bcadd per-stream TCP cwnd info to brief summary (Linux only)\n"
#endif
"-D	xmit only: don’t buffer TCP writes (sets TCP_NODELAY sockopt)\n"-B	recv only: only output full blocks of size from -l## (for TAR)\n"--packet-burst packet burst value for instantaneous rate limit option\n"--idle-data-timeout <value|minimum/default/maximum> (default: 15/30/60)\n" "client timeout in seconds for idle data connection\n"
#endif IPv6_V6ONLY
"--disable-v4-mapped disable v4 mapping in v6 server (default)\n"--enable-v4-mapped enable v4 mapping in v6 server\n"
#endif
"n\nUsage (server): nuttcp -S[\P] \[-options]\n
note server mode excludes use of -s except for -1 one-shot mode\n"\n"P' suboption makes 3rd party {in,out}bound control ports same\n"-4Use IPv4 (default)\n"
#endif AF_INET6
"-6Use IPv6n\n"
#endif
"-1oneshot server mode (implied with inetd/xinetd), implies -S'\n"
#if defined(linux)
"-s[d][z] use stdin\stdout for data input\output instead of pattern data\n""(d' suboption uses direct I/O if input\output is regular file)\n""(z' suboption enables zero copy tx if input is regular file)\n"
#else
"-suse stdin\stdout for data input\output instead of pattern data\n"
"-P##port number for server connection (default 5000)\n\note don't use with inetd/xinetd (use services file instead)\n"
#endif

"-xP##set nuttcp process priority (must be root)\n"
#endif

#ifdef HAVE_SETPRIO
"-xc##set nuttcp server process CPU affinity\n"
#endif

"--idle-data-timeout <value|minimum/default/maximum> (default: 15/30/60)\n" server timeout in seconds for idle data connection\n"--no3rdparty don't allow 3rd party capability\n"--nofork don't fork server\n"
"--single-threaded make manually started server be single threaded\n"
#endif

"-disable-v4-mapped disable v4 mapping in v6 server (default)\n"
"--enable-v4-mapped enable v4 mapping in v6 server\n"
#endif

Multilink aggregation options (TCP only):

nuttcp [-options] -N## [ctl_addr]/host1/host2/.../host## (xmit only)\n
nuttcp [-options] -N## [ctl_addr]/host+addr_stride (IPv4 only)\n
nuttcp [-options] -N## [ctl_addr]/host+n.n.n.n (IPv4 only)\n
nuttcp [-options] -N##m [ctl_addr]/host\n
where host resolves to multiple addresses\n
separate [ctl_addr/] option available only for xmit\n
Format options:\n
-fxmitstats also give transmitter stats (MB) with -i (UDP only)\n
-frunningtotal also give cumulative stats on interval reports\n
-f-drops don't give packet drop info on brief output (UDP)\n
-f-retrans don't give retrans info on brief output (TCP)\n
#ifdef (linux)\n"-f-cwnd don't give cwnd info on brief output (TCP)\n"
#endif

"-f-percentloss don't give %%loss info on brief output (UDP)\n
-f-parse generate key=value parsable output\n
-f-beta suppress beta version message\n
-f-rtt suppress RTT info \n"

char stats[128];
char srvrbuf[4096];
char tmpbuf[257];
uint64_t nbytes = 0;/* bytes on net */
int64_t pbytes = 0;/* previous bytes - for interval reporting */
int64_t ntbytes = 0;/* bytes sent by transmitter */
int64_t ptbytes = 0; /* previous bytes sent by transmitter */
uint64_t ntbytes = 0; /* bytes sent by transmitter that have
* been counted */
uint64_t ntbytescp = 0; /* previous ntbytes count */
uint64_t ntbytescpin = 0; /* ntbytescp for interval reports */
uint64_t chk_nbytes = 0; /* byte counter used to test if no more data
* being received by server (presumably because
* client transmitter went away */

double rtt = 0.0; /* RTT between client and server in ms */
int which_rt = 1; /* which round trip for "-Ris" */
uint32_t iretrans[MAXSTREAM+1]; /* number of TCP retransmissions */
uint32_t nretrans[MAXSTREAM+1]; /* initial number of TCP retransmissions */
uint32_t sretrans = 0; /* number of system TCP retransmissions */
cwnd[MAXSTREAM+1]; /* TCP congestion window in KB */

int numCalls = 0; /* # of NRead/NWrite calls. */
int nstream = 1; /* number of streams */
int multilink = 0; /* set to use multilink aggregation */
int stream_idx = 0; /* current stream */
int start_idx = 1; /* set to use or bypass control channel */
int b_flag = 1; /* use mread() */
int got_srvr_output = 0; /* set when server output has been read */
int reading_srvr_info = 0; /* set when starting to read server info */
int retry_server = 0; /* set to retry control connect() to server */
int num_connect_tries = 0; /* tracks attempted connects to server */
int single_threaded = 0; /* set to make server single threaded */
double srvr_MB;
double srvr_realt;
double srvr_KBps;
double srvr_Mbps;
int srvr_cpu_util;

double cput = 0.000001, realt = 0.000001; /* user, real time (seconds) */
double realtd = 0.000001; /* real time delta - for interval reporting */
double pkt_delta; /* time delta between packets in ms */
double jitter; /* current jitter measurement in ms */
unsigned long long njitter; /* number of jitter measurements */
double jitter_min; /* jitter minimum */
double jitter_max; /* jitter maximum */
double jitter_avg; /* jitter average */
double jitteri; /* current jitter interval measurement in ms */
unsigned long long njitteri; /* number of jitter interval measurements */
double jitter_mini; /* jitter minimum for interval report */
double jitter_maxi; /* jitter maximum for interval report */
double jitter_avgi; /* jitter average for interval report */
double owd; /* current one-way delay measurement in ms */
unsigned long long nowd; /**< number of one-way delay measurements */
double owd_min; /**< one-way delay minimum */
double owd_max; /**< one-way delay maximum */
double owd_avg; /**< one-way delay average */
unsigned long long nowdi; /**< number of OWD interval measurements */
double owd_mini; /**< OWD minimum for interval report */
double owd_maxi; /**< OWD maximum for interval report */
double owd_avgi; /**< OWD average for interval report */

void
close_data_channels()
{
    if (fd[1] == -1) return;

    if (clientserver && client && !host3 && udp && trans) {
        /* If all the EOD packets get lost at the end of a UDP
         * transfer, having the client do a shutdown() for writing
         * on the control connection allows the server to more
         * quickly realize that the UDP transfer has completed
         * (mostly of benefit for separate control and data paths)
         *
         * Can't do this in the opposite direction since the
         * server needs to send info back to client */
        shutdown(0, SHUT_WR);
    }

    if (multicast && !trans) {
        /* Leave the multicast group */
        if ((af == AF_INET) && !ssm) {
            if (setsockopt(fd[1], IPPROTO_IP, IP_DROP_MEMBERSHIP,
                            (void *)&mc_group,
                            sizeof(mc_group)) < 0) {
                err("setsockopt: IP_DROP_MEMBERSHIP");
            }
        }
        #ifdef AF_INET6
        else if ((af == AF_INET6) && !ssm) {
            if (setsockopt(fd[1], IPPROTO_IPV6, IPV6_LEAVE_GROUP,
                            (void *)&mc6_group,
                            sizeof(mc6_group)) < 0) {
                err("setsockopt: IPV6_LEAVE_GROUP");
            }
        }
        #endif
        #ifdef MCAST_JOIN_SOURCE_GROUP
        else if ((af == AF_INET) && ssm) {
            /* Leave the source specific multicast group */
            if (setsockopt(fd[1], IPPROTO_IP,
MCAST_LEAVE_SOURCE_GROUP,
    &group_source_req,
    sizeof(group_source_req)) < 0) {
    err("setsockopt: MCAST_LEAVE_SOURCE_GROUP");
}
}
#endif AF_INET6
else if ((af == AF_INET6) && ssm) {
    /* Leave the source specific multicast group */
    if (setsockopt(fd[1], IPPROTO_IPV6, MCAST_LEAVE_SOURCE_GROUP,
                   &group_source_req,
                   sizeof(group_source_req)) < 0) {
        err("setsockopt: MCAST_LEAVE_SOURCE_GROUP");
    }
}
#endif /* AF_INET6 */
#endif /* MCAST_JOIN_SOURCE_GROUP */
}

for (stream_idx = 1; stream_idx <= nstream; stream_idx++) {
    close(fd[stream_idx]);
    fd[stream_idx] = -1;
}

#ifdef SIGPIPE
void
sigpipe(int signum)
{
    signal(SIGPIPE, sigpipe);
}
#endif

void
sigint(int signum)
{
    signal(SIGINT, SIG_DFL);
    fputs("*** transfer interrupted ***\n", stdout);
    if (clientserver && client && !host3 && udp && !trans)
        shutdown(0, SHUT_WR);
    else
        intr = 1;
    done++;
    return;
}

void
ignore_alarm( int signum )
{
    return;
}

void
sigalarm( int signum )
{
    struct timeval timec; /* Current time */
    struct timeval timed; /* Delta time */
    int64_t nrbytes;
    uint64_t deltarbytes, deltatbytes;
    double fractloss;
    int nodata;
    int i;
    char *cp1, *cp2;
    short save_events;
    long flags, saveflags;

    if (host3 && clientserver) {
        if (client)
            intr = 1;
        return;
    }

    if (clientserver && client && reading_srvr_info) {
        mes("Error: not receiving server info");
        exit(1);
    }

#ifndef HAVE_CLOCK_GETTIME
    timec.tv_sec = 0; /* silence bogus compiler warning */
    timec.tv_usec = 0; /* silence bogus compiler warning */
#endif

    if (interval && !trans) {
        /* Get real time */
        get_timeofday(&timec, (struct timezone *)0);
        tvsub( &timed, &timec, &timep );
        realtd = timed.tv_sec + ((double)timed.tv_usec) / 1000000;
        if (realtd <= 0.0)  realtd = 0.000001;
        tvsub( &timed, &timec, &time0 );
        realt = timed.tv_sec + ((double)timed.tv_usec)
               / 1000000;
        if (realt <= 0.0)  realt = 0.000001;
    }

    if (clientserver && !trans) {
struct sockaddr_in peer;
socklen_t peerlen = sizeof(peer);

nodata = 0;

if (getpeername(fd[0], (struct sockaddr *)&peer, &peerlen) < 0)
    nodata = 1;

if (!client && & udp && got_begin) {
    /* checks if client did a shutdown() for writing
     * on the control connection */
    pollfds[0].fd = fileno(ctlconn);
    save_events = pollfds[0].events;
    pollfds[0].events = POLLIN | POLLPRI;
    pollfds[0].revents = 0;
    if ((poll(pollfds, 1, 0) > 0) &&
        (pollfds[0].revents & (POLLIN | POLLPRI)) { 
        nodata = 1;
    }
    pollfds[0].events = save_events;
}

if (interval) {
    chk_interval += realtd;
    if (chk_interval >= chk_idle_data) {
        chk_interval = 0;
        if ((nbytes - chk_nbytes) == 0)
            nodata = 1;
        chk_nbytes = nbytes;
    }
    else {
        if ((nbytes - chk_nbytes) == 0)
            nodata = 1;
        chk_nbytes = nbytes;
    }
}

if (nodata) {
    /* Don't just exit anymore so can get partial results
     * (shouldn't be a problem but keep an eye out that
     * servers don't start hanging again) */
    if (!client && & udp && ! interval && & handle_urg) {
        /* send 'A' for ABORT as urgent TCP data
         * on control connection (don't block)
         * Only server can do this since client
         * does a shutdown() for writing on the
         * control connection */
        
        /*
saveflags = fcntl(fd[0], F_GETFL, 0);
if (saveflags != -1) {
flags = saveflags | O_NONBLOCK;
fcntl(fd[0], F_SETFL, flags);
}
send(fd[0], "A", 1, MSG_OOB);
if (saveflags != -1) {
flags = saveflags;
fcntl(fd[0], F_SETFL, flags);
}
if (client) {
mes("Error: not receiving data from server");
exit(1);
}
close_data_channels();
intr = 1;
return;
}
if (!interval)
return;
}
if (interval && !trans) {
if ((udp && !got_begin) || done) {
timep.tv_sec = timec.tv_sec;
timep.tv_usec = timec.tv_usec;
return;
}
if (clientserver) {
nbytes = nbytes;
if (udplossinfo) {
ntbytes = *(int64_t *)(buf + 24);
if (need_swap) {
cp1 = (char *)&ntbytes;
cp2 = buf + 31;
for ( i = 0; i < 8; i++ )
*cp1++ = *cp2--;
}
if (ntbytes > nbytesc)
/* received bytes not counted yet */
nbytes += buflen;
if ((nbytes > nbytes) ||
((nbytes - pbytes) > (ntbytes - ptbytes)))
/* yes they were counted */
nbytes -= buflen;
}
if (read_retrans) {
    nretrans[1] = *(uint32_t *)(buf + 24);
    if (need_swap) {
        cp1 = (char *)&nretrans[1];
        cp2 = buf + 27;
        for (i = 0; i < 4; i++)
            *cp1++ = *cp2--;
    }
}
if (read_cwnd) {
    cwnd[1] = *(uint32_t *)(buf + 28);
    if (need_swap) {
        cp1 = (char *)&cwnd[1];
        cp2 = buf + 31;
        for (i = 0; i < 4; i++)
            *cp1++ = *cp2--;
    }
}
if ((cwnd[1] == 0x5254524Eu) ||    /* "RTRN" */
  (cwnd[1] == 0x48525452u))      /* "HRTR" */
    cwnd[1] = init_pkt_cwnd;
if (*ident)
    fprintf(stdout, "%s: ", ident + 1);
if (format & PARSE)
    strcpy(fmt, P_PERF_FMT_INTERVAL);
else
    strcpy(fmt, PERF_FMT_INTERVAL);
    fprintf(stdout, fmt,
    (double)(nrbytes - pbytes)/(1024*1024), realtd,
    (double)(nrbytes - pbytes)/realtd/125000);
if (udplossinfo) {
    if (!(format & NODROPS)) {
        if (format & PARSE)
            strcpy(fmt,
                P_DROP_FMT_INTERVAL);
        else
            strcpy(fmt, DROP_FMT_INTERVAL);
        fprintf(stdout, fmt,
            ((ntbytes - ptbytes) - (nrbytes - pbytes))/buflen,
            (ntbytes - ptbytes)/buflen);
    }
    if (!(format & NOPERCENTLOSS)) {
        deltarbytes = nrbytes - pbytes;
        deltatbytes = ntbytes - ptbytes;
        fractloss = (deltatbytes ?
            1.0 -
        }
(double)deltabytes
/(double)deltatbytes :
0.0);
if (format & PARSE)
strcpy(fmt,
    P_LOSS_FMT_INTERVAL);
else if ((fracloss != 0.0) &&
    (fracloss < 0.001))
strcpy(fmt,
LOSS_FMT_INTERVAL5);
else
strcpy(fmt, LOSS_FMT_INTERVAL);
fprintf(stdout, fmt, fractloss * 100);
}
}
if ((do_jitter & JITTER_MIN) && njitteri) {
if (format & PARSE)
strcpy(fmt, P_JITTER_MIN_FMT_INTERVAL);
else
strcpy(fmt, JITTER_MIN_FMT_INTERVAL);
fprintf(stdout, fmt, jitter_mini);
}
if ((do_jitter & JITTER_AVG) && njitteri) {
if (format & PARSE)
strcpy(fmt, P_JITTER_AVG_FMT_INTERVAL);
else
strcpy(fmt, JITTER_AVG_FMT_INTERVAL);
fprintf(stdout, fmt, jitter_avgi/njitteri);
}
if ((do_jitter & JITTER_MAX) && njitteri) {
if (format & PARSE)
strcpy(fmt, P_JITTER_MAX_FMT_INTERVAL);
else
strcpy(fmt, JITTER_MAX_FMT_INTERVAL);
fprintf(stdout, fmt, jitter_maxi);
}
if (do_jitter && njitteri) {
    njitteri = 0;
    jitter_mini = 1000000.0;
    jitter_maxi = -1000000.0;
    jitter_avgi = 0.0;
}
if (read_retrans && sinkmode) {
if (format & PARSE)
fprintf(stdout, P_RETRANS_FMT_INTERVAL,
    ((retransinfo == 1) ||
    !nrbytes) ? "" : "host-",
    (retrans[1] - pretrans));
else
fprintf(stdout, RETRANS_FMT_INTERVAL,
(nretrans[1] - pretrans),
((retransinfo == 1) ||
 !nrbytes) ? "" : "host-" );
}
if (read_cwnd && sinkmode) {
if (format & PARSE)
fprintf(stdout, P_CWND_FMT_INTERVAL, cwnd[1]);
else
fprintf(stdout, CWND_FMT_INTERVAL, cwnd[1]);
}
if ((do_owd & OWD_MIN) && nowdi) {
if (format & PARSE)
strcpy(fmt, P_OWD_MIN_FMT_INTERVAL);
else
strcpy(fmt, OWD_MIN_FMT_INTERVAL);
fprintf(stdout, fmt, owd_mini);
}
if ((do_owd & OWD_AVG) && nowdi) {
if (format & PARSE)
strcpy(fmt, P_OWD_AVG_FMT_INTERVAL);
else
strcpy(fmt, OWD_AVG_FMT_INTERVAL);
fprintf(stdout, fmt, owd_avgi/nowdi);
}
if ((do_owd & OWD_MAX) && nowdi) {
if (format & PARSE)
strcpy(fmt, P_OWD_MAX_FMT_INTERVAL);
else
strcpy(fmt, OWD_MAX_FMT_INTERVAL);
fprintf(stdout, fmt, owd_maxi);
}
if (do_owd && nowdi) {
nowdi = 0;
owd_mini = 1000000.0;
owd_maxi = -1000000.0;
owd_avgi = 0.0;
}
if (format & RUNNINGTOTAL) {
if (format & PARSE)
strcpy(fmt, P_PERF_FMT_INTERVAL2);
else
strcpy(fmt, PERF_FMT_INTERVAL2);
fprintf(stdout, fmt, (double)nrbytes/(1024*1024), realt,
(double)nrbytes/realt/125000);
if (udplossinfo) {
    if (!(format & NODROPS)) {
        if (format & PARSE)
            strcpy(fmt,
                    P_DROP_FMT_INTERVAL);
        else
            strcpy(fmt,
                    DROP_FMT_INTERVAL);
        fprintf(stdout, fmt,
                 (ntbytes - nrbytes)
                         / buflen,
                 ntbytes/buflen);
    }
    if (!(format & NOPERCENTLOSS)) {
        fractloss = (ntbytes ?
                        1.0 -
                        (double)nrbytes
                        /(double)ntbytes :
                        0.0);
        if (format & PARSE)
            strcpy(fmt,
                    P_LOSS_FMT_INTERVAL);
        else if ((fractloss != 0.0) &&
                 (fractloss < 0.001))
            strcpy(fmt,
                    LOSS_FMT_INTERVAL5);
        else
            strcpy(fmt,
                    LOSS_FMT_INTERVAL);
        fprintf(stdout, fmt,
                 fractloss * 100);
    }
}
if (read_retrans && sinkmode) {
    if (format & PARSE)
        fprintf(stdout,
                P_RETRANS_FMT_INTERVAL,
                ((retransinfo == 1) ||
                 !nrbytes) ?
                "" : "host-",
                nretrans[1]);
    else
        fprintf(stdout,
                RETRANS_FMT_INTERVAL,
                nretrans[1],
                ((retransinfo == 1) ||
                 !nrbytes) ?
if (read_cwnd && sinkmode) {
    if (format & PARSE)
        fprintf(stdout,
            P_CWND_FMT_INTERVAL,
            cwnd[1]);
    else
        fprintf(stdout,
            CWND_FMT_INTERVAL,
            cwnd[1]);
}
if (udplossinfo && (format & XMITSTATS)) {
    if (format & PARSE)
        strcpy(fmt, P_PERF_FMT_INTERVAL3);
    else
        strcpy(fmt, PERF_FMT_INTERVAL3);
    fprintf(stdout, fmt,
        (double)(ntbytes - ptbytes)/1024/1024);
    if (format & RUNNINGTOTAL) {
        if (format & PARSE)
            strcpy(fmt,
                P_PERF_FMT_INTERVAL4);
        else
            strcpy(fmt, PERF_FMT_INTERVAL4);
        fprintf(stdout, fmt,
            (double)ntbytes/1024/1024);
        if (format & DEBUGINTERVAL)
            fprintf(stdout, " Pre: %.4f MB",
                (double)ntbytesc /1024/1024);
    }
    fprintf(stdout, "n");
    fflush(stdout);
    timep.tv_sec = timec.tv_sec;
    timep.tv_usec = timec.tv_usec;
    pbytes = nrbytes;
    pbytes = ntbytes;
    pretrans = nretrans[1];
}
else
    intr = 1;
return;
int main( int argc, char **argv )
{
  double MB;
  double rate_opt;
  double fractloss;
  int cpu_util;
  int first_read;
  int first_jitter, first_jitteri;
  int ocorrection = 0;
  double correction = 0.0;
  int pollst = 0;
  int i = 0, j = 0;
  char *cp1 = NULL, *cp2 = NULL, *cp3 = NULL;
  char *hostaddr;
  char ch = '\0';
  int error_num = 0;
  int sockopterr = 0;
  int save_errno;
  struct servent *sp = 0;
  struct addrinfo hints, *res[MAXSTREAM + 1] = { NULL },
  *host3res, *mcres = NULL;
  union sockaddr_union client_ipaddr;
  struct sockaddr_storage dummy;  
  struct timeval time_eod = {0}; /* time EOD packet was received */
  struct timeval time_eod0 = {0}; /* time EOD0 packet was received */
  struct timeval timed; /* time delta */
  struct timeval timeconn1 = {0}; /* time before connect() for RTT */
  struct timeval timeconn2 = {0}; /* time after connect() for RTT */
  struct timeval timeconn; /* time to connect() == RTT */
  union {
    unsigned char buf[sizeof(struct in_addr)];
    uint32_t ip32;
  } ipad_stride; /* IPv4 address stride */
  short save_events;
  int skiparg;
  int reqval;
  int got_srvr_retrans;
  int got_srvr_cwnd;
  uint32_t t total_retrans = 0; /* total retrans for all streams */
  uint32_t t total_snd_cwnd = 0; /* total cwnd for all streams in KB */
  double idle_data_min = IDLE_DATA_MIN;
  double idle_data_max = IDLE_DATA_MAX;
  double default_idle_data = DEFAULT_IDLE_DATA;
  char multsrc[ADDRSTRLEN] = "\0";
  char multaddr[ADDRSTRLEN] = "\0";
  long flags;
  int nameinfo_flags;
int implicit_hostaddr;

sendwin = 0;
rcvwin = 0;
srvrwin = -1;
format |= WANTRTT;

if (argc < 2) goto usage;

nut_cmd = argv[0];
argv++; argc--;
while (argc>0 && argv[0][0] == '-') {
  skiparg = 0;
  switch (argv[0][1]) {
    case '4':
      domain = PF_INET;
      af = AF_INET;
      explicitaf = 1;
      break;
    #ifdef AF_INET6
    case '6':
      domain = PF_INET6;
      af = AF_INET6;
      explicitaf = 1;
      break;
    #endif
    case 'B':
      b_flag = 1;
      break;
    case 't':
      trans = 1;
      break;
    case 'r':
      trans = 0;
      break;
    case 'd':
      options |= SO_DEBUG;
      break;
    case 'D':
      nodelay = 1;
      break;
    case 'n':
      reqval = 0;
      if (argv[0][2] == 'b') {
        fprintf(stderr, "option \"-nb\" no longer supported, use \"-n###[k|m|g|t|p]\" instead\n");
        fflush(stderr);
        exit(1);
      }
    }
  }

  if (argv[0][0] == '-') {
    skiparg = 1;
  }

  while (argc>0 && argv[0][0] == '-') {
    switch (argv[0][1]) {
      case '4':
        domain = PF_INET;
        af = AF_INET;
        explicitaf = 1;
        break;
      #ifdef AF_INET6
      case '6':
        domain = PF_INET6;
        af = AF_INET6;
        explicitaf = 1;
        break;
      #endif
      case 'B':
        b_flag = 1;
        break;
      case 't':
        trans = 1;
        break;
      case 'r':
        trans = 0;
        break;
      case 'd':
        options |= SO_DEBUG;
        break;
      case 'D':
        nodelay = 1;
        break;
      case 'n':
        reqval = 0;
        if (argv[0][2] == 'b') {
          fprintf(stderr, "option \"-nb\" no longer supported, use \"-n###[k|m|g|t|p]\" instead\n");
          fflush(stderr);
          exit(1);
        }
    }
  }

  argv++; argc--;
}


cp1 = getoptvalp(argv, 2, reqval, &skiparg);
nbuf = strtoull(cp1, NULL, 0);
if (nbuf == 0) {
if (errno == EINVAL) {
    fprintf(stderr, "invalid nbuf = %%s\n",
          argv[0][2]);
    fflush(stderr);
    exit(1);
}
else {
    nbuf = DEFAULT_NBUF;
    break;
}
}
if (*cp1)
    ch = *(cp1 + strlen(cp1) - 1);
else
    ch = '\0';
if ((ch == 'b') || (ch == 'B'))
    nbuf_bytes = 1;
else if ((ch == 'k') || (ch == 'K')) {
    nbuf *= 1024;
    nbuf_bytes = 1;
}
else if ((ch == 'm') || (ch == 'M')) {
    nbuf *= 1048576;
    nbuf_bytes = 1;
}
else if ((ch == 'g') || (ch == 'G')) {
    nbuf *= 1073741824;
    nbuf_bytes = 1;
}
else if ((ch == 't') || (ch == 'T')) {
    nbuf *= 1099511627776ull;
    nbuf_bytes = 1;
}
else if ((ch == 'p') || (ch == 'P')) {
    nbuf *= 1125899906842624ull;
    nbuf_bytes = 1;
}
break;
case 'l':
    reqval = 1;
    cp1 = getoptvalp(argv, 2, reqval, &skiparg);
    buflen = atoi(cp1);
    buflenopt = 1;
    if (buflen < 1) {

fprintf(stderr, "invalid buflen = %d\n", buflen);
fflush(stderr);
exit(1);
}
if (*cp1)
    ch = *(cp1 + strlen(cp1) - 1);
else
    ch = '0';
if ((ch == 'k') || (ch == 'K'))
    buflen *= 1024;
else if ((ch == 'm') || (ch == 'M'))
    buflen *= 1048576;
break;
case 'w':
    reqval = 1;
    if (argv[0][2] == 's') {
        cp1 = getoptvalp(argv, 3, reqval, &skiparg);
        srvrwin = atoi(cp1);
        if (*cp1)
            ch = *(cp1 + strlen(cp1) - 1);
        else
            ch = '0';
        if ((ch == 'k') || (ch == 'K'))
            srvrwin *= 1024;
        else if ((ch == 'm') || (ch == 'M'))
            srvrwin *= 1048576;
        else if ((ch == 'g') || (ch == 'G'))
            srvrwin *= 1073741824;
        else if ((ch != 'b') && (ch != 'B'))
            srvrwin *= 1024;
        if (srvrwin < 0) {
            fprintf(stderr, "invalid srvrwin = %d\n", srvrwin);
            fflush(stderr);
            exit(1);
        }
    }
    else {
        if (argv[0][2] == 'b') {
            braindead = 1;
            cp1 = getoptvalp(argv, 3, reqval,
                &skiparg);
        if (*cp1 == '0')
            break;
        sendwin = atoi(cp1);
        }
        else {
            cp1 = getoptvalp(argv, 2, reqval,
                &skiparg);
sendwin = atoi(cp1);
}

if (*cp1)
    ch = *(cp1 + strlen(cp1) - 1);
else
    ch = '0';
if ((ch == 'k') || (ch == 'K'))
    sendwin *= 1024;
else if ((ch == 'm') || (ch == 'M'))
    sendwin *= 1048576;
else if ((ch == 'g') || (ch == 'G'))
    sendwin *= 1073741824;
else if ((ch != 'b') && (ch != 'B'))
    sendwin *= 1024;
rcvwin = sendwin;
if (sendwin < 0) {
    fprintf(stderr, "invalid sendwin = %d\n", sendwin);
    fflush(stderr);
    exit(1);
}

if (srvrwin == -1) {
    srvrwin = sendwin;
}
break;
case 's':
    sinkmode = 0; /**< sink/source data */
#if defined(linux)
    if (strchr(argv[0], 'z'))
        zerocopy = 1;
    if (strchr(argv[0], 'd'))
        directio = 1;
#endif
break;
case 'p':
    reqval = 1;
    cp1 = getoptvalp(argv, 2, reqval, &skiparg);
    if ((cp2 = strchr(cp1, ':'))) {
        tmpport = atoi(cp1);
        if ((tmpport < 1024) || (tmpport > 65535)) {
            fprintf(stderr, "invalid source port = %d\n", tmpport);
            fflush(stderr);
            exit(1);
        }
        srcport = tmpport;
cp1 = cp2 + 1;
}
tmpport = atoi(cp1);
if ((tmpport < 1024) || (tmpport > 65535)) {
    fprintf(stderr, "invalid port = \%d\n", tmpport);
    fflush(stderr);
    exit(1);
}
port = tmpport;
break;
case 'P':
    reqval = 1;
    cp1 = getoptvalp(argv, 2, reqval, &skiparg);
    if ((cp2 = strchr(cp1, ':'))) {
        tmpport = atoi(cp1);
        if ((tmpport < 1024) || (tmpport > 65535)) {
            fprintf(stderr, "invalid source control port = \%d\n", tmpport);
            fflush(stderr);
            exit(1);
        }
        srcctlport = tmpport;
        cp1 = cp2 + 1;
    }
    tmpport = atoi(cp1);
    if ((tmpport < 1024) || (tmpport > 65535)) {
        fprintf(stderr, "invalid ctlport = \%d\n", tmpport);
        fflush(stderr);
        exit(1);
    }
    ctlport = tmpport;
    if ((cp2 = strchr(argv[0], '/'))) {
        if (strchr(cp2, ':')) {
            fprintf(stderr, "can't specify source control with third party\n");
            fflush(stderr);
            exit(1);
        }
        tmpport = atoi(cp2 + 1);
        if ((tmpport < 1024) || (tmpport > 65535)) {
            fprintf(stderr, "invalid third party\nctlport = \%d\n", tmpport);
            fflush(stderr);
            exit(1);
        }
        tmpport = atoi(cp2 + 1);
        if ((tmpport < 1024) || (tmpport > 65535)) {
            fprintf(stderr, "invalid third party\nctlport = \%d\n", tmpport);
            fflush(stderr);
            exit(1);
        }
    }
ctlport3 = tmpport;
}
break;
case 'u':
udp = 1;
if (!buflenopt) buflen = DEFAULTUDPBUFLEN;
if (argv[0][2] == 'u') {
haverateopt = 1;
rate = MAXRATE;
}
break;
case 'j':
reqval = 0;
for (reqval = 0; cp1 = getoptvalp(argv, 2, reqval, &skiparg);
if (strchr(cp1, 'm'))
do_jitter |= JITTER_MIN;
if (strchr(cp1, 'a'))
do_jitter |= JITTER_AVG;
if (strchr(cp1, 'x'))
do_jitter |= JITTER_MAX;
if (do_jitter == 0)
do_jitter = JITTER_MAX;
if (strchr(cp1, 'o'))
do_jitter |= JITTER_IGNORE_OOO;
udp = 1;
if (!buflenopt) buflen = DEFAULTUDPBUFLEN;
break;
case 'o':
reqval = 0;
for (reqval = 0; cp1 = getoptvalp(argv, 2, reqval, &skiparg);
if (strchr(cp1, 'm'))
do_owd |= OWD_MIN;
if (strchr(cp1, 'a'))
do_owd |= OWD_AVG;
if (strchr(cp1, 'x'))
do_owd |= OWD_MAX;
if (do_owd == 0)
do_owd = OWD_AVG;
break;
case 'v':
brie = 0;
if (argv[0][2] == 'v')
verbose = 1;
break;
case 'N':
reqval = 1;
for (reqval = 0; cp1 = getoptvalp(argv, 2, reqval, &skiparg);
nstream = atoi(cp1);
if (strchr(cp1, 'm'))
multilink = 1;
if (nstream < 1) {
fprintf(stderr, "invalid nstream = %d\n", nstream);
fflush(stderr);
exit(1);
}
if (nstream > MAXSTREAM) {
fprintf(stderr, "nstream = %d > MAXSTREAM, set to %d\n",
        nstream, MAXSTREAM);
nstream = MAXSTREAM;
}
if (nstream > 1) {
b_flag = 1;
send_retrans = 0;
read_retrans = 0;
send_cwnd = 0;
read_cwnd = 0;
}
break;
case 'R':
reqval = 1;
haverateopt = 1;
cp1 = getoptvalp(argv, 2, reqval, &skiparg);
if (*cp1 == 'i') {
    cp1++;
if (*cp1 == 's') {
        cp1++;
#if defined(linux)
    iratesss = 1;
#else
    fprintf(stderr, "smoothed slow start not supported for non-Linux\n");
    fflush(stderr);
#endif
irate = 1;
#else
    sscanf(cp1, "%.f", &rate_opt);
irate = 1;
#endif
} else if (*cp1 == 'a') {
    cp1++;
    sscanf(cp1, "%.f", &rate_opt);
irate = 0;
} else if (*cp1 == 'u') {
    cp1++;
rate_opt = 0.0;
irate = 0;
else {
    sscanf(cp1, "%lf", &rate_opt);
}
if ((cp2 = strchr(cp1, '/'))) {
    *cp2++ = '\0';
    maxburst = atoi(cp2);
    if (maxburst <= 0) {
        fprintf(stderr, "invalid maxburst = %d\n", maxburst);
        fflush(stderr);
        exit(1);
    }
    if (*cp1)
        ch = *(cp1 + strlen(cp1) - 1);
    else
        ch = '\0';
    if ((ch == 'm') || (ch == 'M'))
        rate_opt *= 1000;
    else if ((ch == 'g') || (ch == 'G'))
        rate_opt *= 1000000;
    else if (ch == 'p') {
        rate_pps = 1;
        if (strlen(cp1) >= 2) {
            ch = *(cp1 + strlen(cp1) - 2);
            if ((ch == 'k') || (ch == 'K'))
                rate_opt *= 1000;
            if ((ch == 'm') || (ch == 'M'))
                rate_opt *= 1000000;
        }
    }
    rate = rate_opt;
    if (rate == 0)
        rate = MAXRATE;
    break;
    case 'T':
        reqval = 0;
        cp1 = getoptvalp(argv, 2, reqval, &skiparg);
        sscanf(cp1, "%lf", &timeout);
        if (timeout < 0) {
            fprintf(stderr, "invalid timeout = %f\n", timeout);
            fflush(stderr);
            exit(1);
        } else if (timeout == 0.0)
            timeout = DEFAULT_TIMEOUT;
    
        else if (timeout == 0.0)
            timeout = DEFAULT_TIMEOUT;
if (*cp1)
    ch = *(cp1 + strlen(cp1) - 1);
else
    ch = '0';
if ((ch == 'm') || (ch == 'M'))
    timeout *= 60.0;
else if ((ch == 'h') || (ch == 'H'))
    timeout *= 3600.0;
else if ((ch == 'd') || (ch == 'D'))
    timeout *= 86400.0;
itimer.it_value.tv_sec = timeout;
itimer.it_value.tv_usec =
    (timeout - itimer.it_value.tv_sec)*1000000;
if (timeout && !nbuf)
    nbuf = INT_MAX;
break;
case 'T':
    reqval = 0;
cp1 = getoptvalp(argv, 2, reqval, &skiparg);
    sscanf(cp1, "%lf", &interval);
    if (interval < 0.0) {
        fprintf(stderr, "invalid interval = %f\n", interval);
        fflush(stderr);
        exit(1);
    } else if (interval == 0.0)
        interval = 1.0;
    if (*cp1)
        ch = *(cp1 + strlen(cp1) - 1);
    else
        ch = '0';
    if ((ch == 'm') || (ch == 'M'))
        interval *= 60.0;
    else if ((ch == 'h') || (ch == 'H'))
        interval *= 3600.0;
    break;
case 'I':
    reqval = 1;
    ident[0] = '-';
    strncpy(&ident[1],
        getoptvalp(argv, 2, reqval, &skiparg), 40);
    ident[41] = '0';
    break;
case 'F':
    reverse = 1;
    break;
case 'b':
    reqval = 0;

cp1 = getoptvalp(argv, 2, reqval, &skiparg);
if (*cp1) {
if (isalpha((int)(*cp1)))
brief = 1;
else
brief = atoi(cp1);
if (strchr(cp1, 'r'))
brief |= BRIEF_RETRANS_STREAMS;
if (strchr(cp1, 'c')) {
#if defined(linux)
brief |= BRIEF_CWND_STREAMS;
#else
fprintf(stderr, "\"-bc\" option not supported for non-Linux\n");
fflush(stderr);
#endif
}
else
brief = 1;
break;
case 'S':
if (strchr(&argv[0][2], 'P'))
pass_ctlport = 1;
trans = 0;
clientserver = 1;
brief = 0;
verbose = 1;
break;
case '1':
oneshot = 1;
trans = 0;
clientserver = 1;
brief = 0;
verbose = 1;
break;
case 'V':
fprintf(stdout, "nuttcp-%d.%d.%d%s\n", vers_major,
vers_minor, vers_delta,
beta ? BETA_STR : "");
exit(0);
break;
case 'F':
if (strcmp(&argv[0][2], "xmitstats") == 0)
format |= XMITSTATS;
else if (strcmp(&argv[0][2], "debuginterval") == 0)
format |= DEBUGINTERVAL;
else if (strcmp(&argv[0][2], "runningtotal") == 0)
format |= RUNNINGTOTAL;
else if (strcmp(&argv[0][2], "-percentloss") == 0)
format |= NOPERCENTLOSS;
else if (strcmp(&argv[0][2], "-drops") == 0)
    format |= NODROPS;
else if (strncpy(&argv[0][2], "-retrans") == 0) {
    format |= NORETRANS;
    format |= NOCWND;
}
else if (strcmp(&argv[0][2], "debugretrans") == 0)
    format |= DEBUGRETRANS;
else if (strcmp(&argv[0][2], ".-cwnd") == 0)
    format |= NOCWND;
else if (strcmp(&argv[0][2], "debugpoll") == 0)
    format |= DEBUGPOLL;
else if (strcmp(&argv[0][2], "debugmtu") == 0)
    format |= DEBUGMTU;
else if (strcmp(&argv[0][2], "debugjitter") == 0)
    format |= DEBUGJITTER;
#if defined(linux)
else if (strcmp(&argv[0][2], "debugirate") == 0)
    format |= DEBUGIRATE;
#endif
else if (strcmp(&argv[0][2], "parse") == 0)
    format |= PARSE;
else if (strcmp(&argv[0][2], ".-beta") == 0)
    format |= NOBETAMSG;
/* below is for compatibility with 6.0.x beta */
else if (strcmp(&argv[0][2], "rtt") == 0)
    format |= WANTRTT;
else if (strcmp(&argv[0][2], ".-rtt") == 0)
    format &= ~WANTRTT;
else {
    if (argv[0][2]) {
        fprintf(stderr, "invalid format option \"%s\"\n", argv[0][2]);
        fflush(stderr);
        exit(1);
    } else {
        fprintf(stderr, "invalid null format option\n");
        fprintf(stderr, "perhaps the \"-F\" flip option was intended\n");
        fflush(stderr);
        exit(1);
    }
} else {
    reqval = 1;
    if (argv[0][2] == 'r') {
        traceroute = 1;
    } else if (argv[0][2] == 't') {
        traceroute = 1;
    } else {
        fprintf(stderr, "invalid format option\n");

brief = 1;

#endif
#endif

else if (argv[0][2] == 'P') {
priority = atoi(getoptvalp(argv, 3, reqval, &skiparg));
}
#endif
#endif

else if (argv[0][2] == 'c') {
reqval = 1;
if (argv[0][3] == 's') {
cp1 = getoptvalp(argv, 4, reqval, &skiparg);
srvr_affinity = atoi(cp1);
if (srvr_affinity < 0) {
fprintf(stderr, "invalid srvr_affinity = %d\n",
srvr_affinity);
fflush(stderr);
exit(1);
}
else {

cp1 = getoptvalp(argv, 3, reqval, &skiparg);
affinity = atoi(cp1);
if ((affinity < 0) ||
    (affinity >= CPU_SETSIZE)) {
fprintf(stderr, "invalid affinity = %d\n", affinity);
fflush(stderr);
exit(1);
}
else {
    if ((cp2 = strchr(cp1, '/'))) {
        srvr_affinity = atoi(cp2 + 1);
        if (srvr_affinity < 0) {
            fprintf(stderr, "invalid "
                "srvr_affinity = %d\n",
                srvr_affinity);
            fflush(stderr);
            exit(1);
        }
    }
}
}
else {
    if ((cp2 = strchr(cp1, ':'))) {
        srvr_affinity = atoi(cp2 + 1);
        if (srvr_affinity < 0) {
            fprintf(stderr, "invalid "
                "srvr_affinity = %d\n",
                srvr_affinity);
            fflush(stderr);
            exit(1);
        }
    }
}
}
#endif

else {
    if (argv[0][2]) {
        fprintf(stderr, "invalid x option \"%s\"\n", &argv[0][2]);
        fflush(stderr);
        exit(1);
    }
    else {
        fprintf(stderr, "invalid null x option\n");
        fflush(stderr);
        exit(1);
    }
}
break;

case '3':
    thirdparty = 1;
    break;

case 'm':
    reqval = 0;
    if (argv[0][2] == 'a') {
        ssm = 0;
        cp1 = getoptvalp(argv, 3, reqval, &skiparg);
    }
    else if (argv[0][2] == 's') {
        #ifdef MCAST_JOIN_SOURCE_GROUP
        ssm = 1;
        cp1 = getoptvalp(argv, 3, reqval, &skiparg);
        #else
        fprintf(stderr, "This system does not support SSM\n");
        fflush(stderr);
        exit(1);
        #endif
    }
    else {
        cp1 = getoptvalp(argv, 2, reqval, &skiparg);
    }
    if (*cp1)
        mc_param = atoi(cp1);
    else
        mc_param = 1;
    if ((mc_param < 1) || (mc_param > 255)) {
        fprintf(stderr, "invalid multicast ttl = %d\n", mc_param);
        fflush(stderr);
        exit(1);
    }
multicast = mc_param;
break;
case 'g':
reqval = 1;
mc_addr = getoptvalp(argv, 2, reqval, &skiparg);
break;
case 'M':
reqval = 1;
datamss = atoi(getoptvalp(argv, 2, reqval, &skiparg));
if (datamss < 0) {
    fprintf(stderr, "invalid datamss = %dn", datamss);
    fflush(stderr);
    exit(1);
}
break;
case 'c':
reqval = 1;
cp1 = getoptvalp(argv, 2, reqval, &skiparg);
tos = strtol(cp1, NULL, 0);
if (*cp1)
    ch = *(cp1 + strlen(cp1) - 1);
else
    ch = '0';
if ((ch == 'p') || (ch == 'P')) {
    /* Precedence */
    if (tos > 7) {
        fprintf(stderr, "invalid precedence = %dn", tos);
        fflush(stderr);
        exit(1);
    }
    tos <<= 5;
}
else if (((ch != 't') && (ch != 'T')))
    /* DSCP */
    if (tos > 63)
        fprintf(stderr, "invalid dscp = %dn", tos);
    fflush(stderr);
    exit(1);
    tos <<= 2;
}
if (tos > 255)
    fprintf(stderr, "invalid tos = %dn", tos);
    fflush(stderr);
    exit(1);
break;
case 'a':
retry_server = 1;
break;
case '-' :
if (strcmp(argv[0][2], "nofork") == 0) {
    nofork=1;
}
else if (strcmp(argv[0][2], "no3rdparty") == 0) {
    no3rd=1;
}
else if (strcmp(argv[0][2], "idle-data-timeout") == 0) {
    if ((cp1 = strchr(argv[1], '/'))) {
        if (strchr(cp1 + 1, '/')) {
            if (sscanf(argv[1], "%lf/%lf/%lf", &idle_data_min, &default_idle_data, &idle_data_max) != 3) {
                fprintf(stderr, "error scanning idle-data-timeout parameter = %s\n", argv[1]);
                fflush(stderr);
                exit(1);
            }
            if (idle_data_min <= 0.0) {
                fprintf(stderr, "invalid value for idle-data-timeout minimum = %f\n", idle_data_min);
                fflush(stderr);
                exit(1);
            }
            if (default_idle_data <= 0.0) {
                fprintf(stderr, "invalid value for idle-data-timeout default = %f\n", default_idle_data);
                fflush(stderr);
                exit(1);
            }
            if (idle_data_max <= 0.0) {
                fprintf(stderr, "invalid value for idle-data-timeout maximum = %f\n", idle_data_max);
                fflush(stderr);
                exit(1);
            }
            if (idle_data_max < idle_data_min) {
                fprintf(stderr, "error: idle-data-timeout maximum of %f < minimum of %f\n", idle_data_max, idle_data_min);
                fflush(stderr);
                exit(1);
            }
        }
    }
    else {
        fprintf(stderr, "invalid idle-data-timeout parameter = %s\n", argv[1]);
        fflush(stderr);
        exit(1);
    }
}
else {
    sscanf(argv[1], "%lf", &idle_data_min);
    if (idle_data_min <= 0.0) {
        fprintf(stderr, "invalid value for idle-data-timeout = %f\n", idle_data_min);
        fflush(stderr);
        exit(1);
    }
    idle_data_max = idle_data_min;
    default_idle_data = idle_data_min;
    argv++;
    argc--;
}
else if (strcmp(&argv[0][2], "single-threaded") == 0) {
    single_threaded=1;
}
else if (strcmp(&argv[0][2], "packet-burst") == 0) {
    maxburst = atoi(argv[1]);
    if (maxburst <= 0) {
        fprintf(stderr, "invalid maxburst = %d\n", maxburst);
        fflush(stderr);
        exit(1);
    }
    argv++;
    argc--;
}
#ifdef IPV6_V6ONLY
else if (strcmp(&argv[0][2], "disable-v4-mapped") == 0) {
    v4mapped=0;
}
else if (strcmp(&argv[0][2], "enable-v4-mapped") == 0) {
    v4mapped=1;
}
#endif
else {
    goto usage;
}
break;
}
case 'h':
default:
    goto usage;
}
argv++;
argc--;
if (skiparg) {
    argv++;
    argc--;
}

if (argc > 2) goto usage;
if (trans && (argc < 1)) goto usage;
if (clientserver && (argc != 0)) goto usage;
if (!clientserver && !trans && (argc < 1)) {
    fprintf(stderr, "nuttcp: Warning: Using obsolete "classic" mode:
");
    fprintf(stderr, "                 Automatically switching to "
    "oneshot server mode "
    "(\'nuttcp -1\')\n");
    oneshot = 1;
    trans = 0;
    clientserver = 1;
    brief = 0;
    verbose = 1;
}

host3 = NULL;
if (argc == 2) {
    host3 = argv[1];
    if (strlen(host3) > HOSTNAMELEN) {
        fprintf(stderr, "3rd party host '%s' too long\n", host3);
        fflush(stderr);
        exit(1);
    }
    cp1 = host3;
    while (*cp1) {
        if (!isalnum((int)(*cp1)) && (*cp1 != '-') && (*cp1 != '.')
            && (*cp1 != ':') && (*cp1 != '/')
            && (*cp1 != '+') && (*cp1 != '=')) {
            fprintf(stderr, "invalid 3rd party host '%s'\n", host3);
            fflush(stderr);
            exit(1);
        }
        cp1++;
    }
}

if (multicast) {
    udp = 1;
    if (!buflenopt) buflen = DEFAULT_MC_UDPBUFSIZE;
nstream = 1;

if (mc_addr && !multicast) {
    fprintf(stderr, "can't use \"-g\" option for non-multicast\n\n");
    fflush(stderr);
    exit(1);
}
if (mc_addr && !*mc_addr) {
    fprintf(stderr, "no multicast IP address specified for "
    \"-g\" option\n\n");
    fflush(stderr);
    exit(1);
}
#endif

ifdef AF_INET6
if (!inet_pton(AF_INET6, HI_MC6, &hi_mc6)) {
    err("inet_pton");
}
if (!inet_pton(AF_INET6, HI_MC6_ASM, &hi_mc6_asm)) {
    err("inet_pton");
}
#endif

if (udp && 'haverateopt)
rate = DEFAULT_UDP_RATE;

bzero((char *)&frominet, sizeof(frominet));
bzero((char *)&clientaddr, sizeof(clientaddr));

#ifdef AF_INET6
bzero((char *)&clientaddr6, sizeof(clientaddr6));
clientscope6 = 0;
#endif

if (!nbuf) {
    if (timeout == 0.0) {
        if (sinkmode) {
            timeout = DEFAULT_TIMEOUT;
            itimer.it_value.tv_sec = timeout;
            itimer.it_value.tv_usec =
            (timeout - itimer.it_value.tv_sec) *1000000;
        }
        nbuf = INT_MAX;
    }
}
if (srvrwin == -1) {
    srvrwin = sendwin;
}

if ((argc == 0) && !explicitaf) {
    domain = PF_INET;
    af = AF_INET;
}

if (multilink) {
    if (nstream == 1) {
        fprintf(stderr, "Warning: multilink mode not meaningful for a single stream\n");
        fflush(stderr);
    } else {
        if (argc >= 1) {
            host = argv[0];
            if ((cp1 = strchr(host, '+'))) {
                *cp1++ = '\0';
                if (*cp1)
                    stride = cp1;
            } else {
                if (multilink) {
                    if (stride) {
                        fprintf(stderr, "don't use both multilink and address stride\n");
                        fflush(stderr);
                        exit(1);
                    } else if ((cp1 = strchr(host, '/')) && strchr(cp1 + 1, '/')) {
                        fprintf(stderr, "multilink mode not compatible with multiple hosts %s\n", host);
                        fflush(stderr);
                        exit(1);
                    }
                } else {
                    hostaddr = NULL;
                    implicit_hostaddr = 0;
                }
            } else {
                if ((cp1 = strchr(host, '='))) {
                    *cp1++ = '\0';
                    if (strchr(cp1, '/')) {
                        fprintf(stderr, "host=addr format not supported for multiple control/data paths\n");
                        fflush(stderr);
                        exit(1);
                    } else if (*cp1) {
                        if (*cp1 == '=') {
                            implicit_hostaddr = 1;
                            cp1++;
                        }
                    }
                }
            }
        }
    }
}
hostaddr = cp1;
if (!implicit_hostaddr)
    host = hostaddr;
}
}
stream_idx = 0;
res[0] = NULL;
cp1 = host;
if (host[strlen(host) - 1] == '/') {
    fprintf(stderr, "bad hostname or address: trailing '/' not allowed: %s\n", host);
    fflush(stderr);
    exit(1);
}
if (strchr(host, '/') && !trans && !reverse) {
    fprintf(stderr, "multiple control/data paths not supported for receive\n");
    fflush(stderr);
    exit(1);
}
if (strchr(host, '/') && trans && reverse) {
    fprintf(stderr, "multiple control/data paths not supported for flipped transmit\n");
    fflush(stderr);
    exit(1);
}
if (host[0] == '/') {
    host++;
    cp1++;
    stream_idx = 1;
}
else if ((cp2 = strchr(host, '/'))) {
    host = cp2 + 1;
}
while (stream_idx <= nstream) {
    bzero(&hints, sizeof(hints));
    res[stream_idx] = NULL;
    if (explicitaf) hints.ai_family = af;
    if (udp)
        hints.ai_socktype = SOCK_DGRAM;
    else
        hints.ai_socktype = SOCK_STREAM;
    if ((cp2 = strchr(cp1, '/'))) {
        if (stream_idx == nstream) {
            fprintf(stderr, "bad hostname or address: too many data paths for nstream=\n", nstream, argv[0]);
            fflush(stderr);
            exit(1);
        }
        *cp2 = '\0';
    }
    stream_idx++;
}
if (!(multilink && (stream_idx > 1)) &&
    (error_num = getaddrinfo(cp1, NULL, &hints,
             &res[stream_idx-1]))) {
    if (implicit_hostaddr && hostaddr) {
      if (res[stream_idx]) {
        freeaddrinfo(res[stream_idx]);
        res[stream_idx] = NULL;
      }
      error_num =
      getaddrinfo(hostaddr, NULL,
              &hints,
              &res[stream_idx]);
    }
    if (error_num) {
      if (cp2)
        *cp2++ = '/';
      if (hostaddr) {
        if (implicit_hostaddr)
          *(hostaddr - 2) = '=';
        else
          *(hostaddr - 1) = '=';
      }
      fprintf(stderr, "bad hostname or address: %s: %s\n", gai_strerror(error_num), argv[0]);
      fflush(stderr);
      exit(1);
    }
    if (implicit_hostaddr && hostaddr &&
        (stream_idx == 1)) {
      if (stride)
        *(stride - 1) = '+';
      cp3 = hostaddr;
      while (*cp3) {
        *(cp3 - 1) = *cp3;
        cp3++;
      }
      *(cp3 - 1) = '\0';
      hostaddr--;
      implicit_hostaddr = 0;
      if (stride) {
        stride--;
        *(stride - 1) = '\0';
      }
    }
  }
else if (multilink && (stream_idx > 1)) {
  if (res[stream_idx - 1]->ai_next)
    res[stream_idx] =
res[stream_idx - 1]->ai_next;
else
res[stream_idx] = res[1];
}
else if (!multilink && (stream_idx > 1) &&
    implicit_hostaddr && &hostaddr) {
    if (stride) {
        strcat(host, "+");
        strncat(host, stride, ADDRSTRLEN);
        *(hostaddr - 2) = '\0';
        stride = hostaddr - 1;
    }
    hostaddr = NULL;
}
af = res[stream_idx]->ai_family;
/*
 * At the moment PF_ matches AF_ but are maintained separate and the socket
 * call is supposed to be PF_
 *
 * For now we set domain from the address family we looked up, but if these
 * ever get changed to not match some code will have to go here to find the
 * domain appropriate for the family
 */
domain = af;
stream_idx++;
if (cp2) {
    *cp2++ = '/';
    cp1 = cp2;
} else
    cp1 = host;
if (!res[0]) {
    if ((cp1 = strchr(host, '/')))
        *cp1 = '\0';
    if ((error_num = getaddrinfo(host, NULL, &hints, &res[0]))) {
        if (cp1)
            *cp1++ = '/';
        fprintf(stderr, "bad hostname or address: %s: %s\n", gai_strerror(error_num), argv[0]);
        fflush(stderr);
        exit(1);
    }
    af = res[0]->ai_family;
    /* see previous comment about domain */
    domain = af;
    if (cp1)
        *cp1 = '/';
}
if (hostaddr) {
    host = argv[0];
    if (implicit_hostaddr)
        *(hostaddr - 2) = '=';
    else
        *(hostaddr - 1) = '=';
}

ipad_stride.ip32 = 0;
if (stride) {
    if (strlen(stride) >= ADDRSTRLEN) {
        fprintf(stderr, "address stride '%s' too long\n", stride);
        fflush(stderr);
        exit(1);
    }
    if (nstream == 1) {
        fprintf(stderr, "Warning: stride %s not meaningful for a single stream\n", stride);
        fflush(stderr);
        exit(1);
    }
    if (udp) {
        fprintf(stderr, "stride %s not valid for UDP\n", stride);
        fflush(stderr);
        exit(1);
    }
    if ((cp1 = strchr(argv[0], '/')) && strchr(cp1 + 1, '/')) {
        fprintf(stderr, "stride %s not compatible with multiple hosts %s\n", stride, argv[0]);
        fflush(stderr);
        exit(1);
    }
    if (af == AF_INET) {
        if (strchr(stride, '.')) {
            error_num = inet_pton(AF_INET, stride,
                                  &ipad_stride.buf);
            if (error_num == 0) {
                fprintf(stderr,
                        "stride %s not in correct presentation format\n", stride);
                fflush(stderr);
                exit(1);
            } elseif (error_num < 0)
                err("inet_pton: stride");
        } elseif (error_num == 0) {
            fprintf(stderr,
                    "stride %s not in correct presentation format\n", stride);
            fflush(stderr);
            exit(1);
        } elseif (error_num < 0)
            err("inet_pton: stride");
        else {
            ipad_stride.ip32 = atoi(stride);
            ipad_stride.ip32 = htonl(ipad_stride.ip32);
if (host3 && !strchr(host3, '=') && !strchr(host3, '/')) {
    cp1 = strchr(host3, '+');
    if (cp1) {
        if (strlen(cp1 + 1) >= ADDRSTRLEN) {
            fprintf(stderr, "3rd party address stride '\%s' too long\n", cp1 + 1);
            fflush(stderr);
            exit(1);
        }
        *cp1 = '\0';
    }
    if (inet_pton(af, host3, &dummy) != 1) {
        bzero(&hints, sizeof(hints));
        hints.ai_family = af;
        if (udp)
            hints.ai_socktype = SOCK_DGRAM;
        else
            hints.ai_socktype = SOCK_STREAM;
        host3res = NULL;
        error_num = getaddrinfo(host3, NULL, &hints, &host3res);
        if (error_num == 0) {
            nameinfo_flags = NI_NUMERICHOST;
            error_num = getnameinfo(host3res->ai_addr,
                host3res->ai_addrlen,
                host3addr, ADDRSTRLEN,
                NULL, 0,
                nameinfo_flags);
        }
        if (host3res) {
            freeaddrinfo(host3res);
            host3res = NULL;
        }
        if (error_num == 0) {
            strncpy(host3buf, host3, HOSTNAMELEN);
            strcat(host3buf, "==");
            strncat(host3buf, host3addr, ADDRSTRLEN);
            if (cp1) {
                strcat(host3buf, "+");
            }
strncat(host3buf, cp1 + 1, ADDRSTRLEN);
}
host3 = host3buf;

if (cp1)
*cp1 = '+';

if (!port) {
if (af == AF_INET) {
if ((sp = getservbyname( "nuttcp-data", "tcp" )))
port = ntohs(sp->s_port);
else
port = DEFAULT_PORT;
}
#ifdef AF_INET6
else if (af == AF_INET6) {
if ((sp = getservbyname( "nuttcp6-data", "tcp" )))
port = ntohs(sp->s_port);
else {
if ((sp = getservbyname( "nuttcp-data", "tcp" )))
port = ntohs(sp->s_port);
else
port = DEFAULT_PORT;
}
}
#elseif
else {
err("unsupported AF");
}
}

if (!ctlport) {
if (af == AF_INET) {
if ((sp = getservbyname( "nuttcp", "tcp" )))
ctlport = ntohs(sp->s_port);
else
ctlport = DEFAULT_CTLPORT;
}
#ifdef AF_INET6
else if (af == AF_INET6) {
if ((sp = getservbyname( "nuttcp6", "tcp" )))
ctlport = ntohs(sp->s_port);
else {
if ((sp = getservbyname( "nuttcp", "tcp" )))
ctlport = ntohs(sp->s_port);
else
ctlport = DEFAULT_CTLPORT;
}

#else

er("unsupported AF");

#endif

if (port < 1024) || ((port + nstream - 1) > 65535)) {
fprintf(stderr, "invalid port/nstream = %d/%d\n", port, nstream);
fflush(stderr);
exit(1);
}

if ((ctlport >= port) && (ctlport <= (port + nstream - 1))) {
fprintf(stderr, "ctlport = %d overlaps port/nstream = %d/%d\n", ctlport, port, nstream);
fflush(stderr);
exit(1);
}

if (timeout && (interval >= timeout)) {
fprintf(stderr, "ignoring interval=%f which is greater than or equal timeout=%f\n", interval, timeout);
fflush(stderr);
interval = 0;
}

if (iratesss) {
if (udp) {
fprintf(stderr, "ignoring smoothed slow start option for udp transfer\n");
fflush(stderr);
iratesss = 0;
}
if (maxburst > 1) {
fprintf(stderr, "ignoring maxburst option with smoothed slow start option\n");
fflush(stderr);
maxburst = 1;
}
if (nstream > 1) {
fprintf(stderr, "ignoring smoothed slow start option for multiple streams\n");
fflush(stderr);
iratesss = 0;
}
if (format & NORETRANS) {
fprintf(stderr, "can't do smoothed slow start if no retransmission info\n");
fflush(stderr);
iratesss = 0;
}
if (!(format & NORETRANS) && (format & NOCWND)) {
    fprintf(stderr, "can't do smoothed slow start if no congestion window info\n");
    fflush(stderr);
    iratesss = 0;
}

if (clientserver) {
    if (trans) {
        fprintf(stderr, "server mode only allowed for receiver\n");
        goto usage;
    }
    udp = 0;
    start_idx = 0;
    ident[0] = '\0';
    if (af == AF_INET) {
        union peer46 {
            struct sockaddr_in peer4;
            #ifdef AF_INET6
            struct sockaddr_in6 peer6;
            #endif
        } peer;
        socklen_t peerlen = sizeof(peer);
        if (getpeername(0, (struct sockaddr *)&peer, &peerlen) == 0) {
            #ifdef AF_INET6
            if ((peer.peer4.sin_family == AF_INET) ||
                (peer.peer6.sin6_family == AF_INET6)) {
                #ifdef AF_INET6
                if (!explicitaf &&
                    (peer.peer6.sin6_family == AF_INET6)) {
                    af = AF_INET6;
                    domain = af;
                    clientaddr6 = peer.peer6.sin6_addr;
                    clientscope6 = peer.peer6.sin6_scope_id;
                    client_ipaddr.ss.ss_family = AF_INET6;
                    client_ipaddr.sin6.sin6_addr =
                        clientaddr6;
                } else {
                    clientaddr = peer.peer4.sin_addr;
                    client_ipaddr.ss.ss_family = AF_INET;
                    client_ipaddr.sin.sin_addr = clientaddr;
                }
            } else {
                clientaddr = peer.peer4.sin_addr;
                client_ipaddr.ss.ss_family = AF_INET;
                client_ipaddr.sin.sin_addr = clientaddr;
            }
            #else
            #endif
        }
    }
}
clientaddr = peer.peer4.sin_addr;
client_ipaddr.ss.ss_family = AF_INET;
client_ipaddr.sin.sin_addr = clientaddr;
#endif
inetd = 1;
one射 = 1;
start_idx = 1;
}
#endif
#endif

clientaddr6 = peer.sin6_addr;
clientscope6 = peer.sin6_scope_id;
client_ipaddr.ss.ss_family = AF_INET6;
client_ipaddr.sin6.sin6_addr = clientaddr6;
inetd = 1;
one射 = 1;
start_idx = 1;
}
#else
err("unsupported AF");
}
#endif

if (clientserver && !inetd && !oneshot && !sinkmode) {
fprintf(stderr, "option "-s" invalid with "-S" server mode\n");
fprintf(stderr, "option "-s" can be used with "-l" oneshot server mode\n");
fflush(stderr);
exit(1);
}
#endif

#ifdef HAVE_SETPRIO
if (priority) {
if (setpriority(PRIO_PROCESS, 0, priority) != 0)
err("couldn't change priority");
}
#endif

#ifdef HAVE_SETAFFINITY
if ((affinity >= 0) && !host3) {
    if ((ncores = sysconf(_SC_NPROCESSORS_CONF)) <= 0)
        err("sysconf: couldn't get _SC_NPROCESSORS_CONF");
    CPU_ZERO(&cpu_set);
    CPU_SET(affinity, &cpu_set);
    if (sched_setaffinity(0, sizeof(cpu_set_t), &cpu_set) != 0)
        err("couldn't change CPU affinity");
} #endif

if (argc >= 1) {
    start_idx = 0;
    client = 1;
    clientserver = 1;
}

if (clientserver && !client && srcctlport) {
    fprintf(stderr, "can't specify source control port in server mode\n");
    fflush(stderr);
    exit(1);
}

if (!host3 && clientserver && client && (ssm < 0)) {
    if (af == AF_INET) {
        ssm = 0;
    } #ifdef AF_INET6
    else if (af == AF_INET6) {
        #ifdef MCAST_JOIN_SOURCE_GROUP
        ssm = 1;
        #else
        ssm = 0;
        #endif
    } #endif
}
m_c_af = af;
if (!host3 && clientserver && client && mc_addr) {
    bzero(&hints, sizeof(hints));
    if (explicitaf)
        hints.ai_family = af;
    if (udp)
        hints.ai_socktype = SOCK_DGRAM;
    else
        hints.ai_socktype = SOCK_STREAM;
    mcres = getaddrinfo(mc_addr, NULL, &hints, &mcres);
    error_num = getaddrinfo(mc_addr, NULL, &hints, &mcres);
if (error_num) {
    fprintf(stderr, "getaddrinfo: 
" "bad multicast IP address: %s: %s\n",
    mc_addr, gai_strerror(error_num));
    fflush(stderr);
    exit(1);
}
nameinfo_flags = NI_NUMERICHOST;
error_num = getnameinfo(mcres->ai_addr, mcres->ai_addrlen,
    mcgaddr, ADDRSTRLEN, NULL, 0,
    nameinfo_flags);
if (error_num) {
    fprintf(stderr, "getnameinfo: 
" "bad multicast IP address: %s: %s\n",
    mc_addr, gai_strerror(error_num));
    fflush(stderr);
    exit(1);
}
mc_addr = mcgaddr;
if (mcres->ai_family == AF_INET) {
    struct sockaddr_in *group;
    struct in_addr ipv4_mcaddr;
    group = (struct sockaddr_in *)mcres->ai_addr;
    bcopy((char *)&(group->sin_addr), (char *)&ipv4_mcaddr,
        sizeof(struct in_addr));
    if (ssm) {
        if (((htonl(ipv4_mcaddr.s_addr) & 0xFF000000) !=
            (HI_MC_SSM << 24))) {
            fprintf(stderr, "bad SSM multicast 
" "IP address: %s: 
" "use 232.x.y.z\n",
                mcgaddr);
            fflush(stderr);
            exit(1);
        }
    } else {
        if (((htonl(ipv4_mcaddr.s_addr) & 0xFF000000) !=
            (HI_MC_HSC << 24))) {
            fprintf(stderr, "bad ASM multicast 
" "IP address: %s: 
" "use 231.x.y.z\n",
                mcgaddr);
            fflush(stderr);
            exit(1);
        }
    }
}
ifdef AF_INET6
if (mcres->ai_family == AF_INET6) {
    struct sockaddr_in6 *group;

    group = (struct sockaddr_in6 *)mcres->ai_addr;
    if (ssm) {
        if (bcmp((char *)&(group->sin6_addr),
                    (char *)&hi_mc6,
                    HI_MC6_LEN - 1) != 0) ||
            (group->sin6_addr.s6_addr[HI_MC6_LEN - 1] < 0x80)) {
            fprintf(stderr,
"bad SSM multicast IP address: 
""%s: use ff3e::[8-f]xxx:yyyy\n",
mcgaddr);
            fflush(stderr);
            exit(1);
        }
    }
    else {
        if (bcmp((char *)&(group->sin6_addr),
                    (char *)&hi_mc6_asm,
                    HI_MC6_ASM_LEN) != 0)) {
            fprintf(stderr,
"bad ASM multicast IP address: 
""%s: use ff2e::www:xxxx::zzzz\n",
mcgaddr);
            fflush(stderr);
            exit(1);
        }
    }
} #endif
mc_af = mcres->ai_family;

if (irate < 0) {
    if (do_jitter)
        irate = 1;
    else
        irate = 0;
} if (do_jitter && (rate == MAXRATE)) {
    fprintf(stderr, "jitter option not supported for 
""unlimited rate\n");
    fflush(stderr);
exit(1);

if (do_jitter && !irate) {
    fprintf(stderr, "jitter option requires
    \"-R\" instantaneous rate limit option\n"");
    fflush(stderr);
    exit(1);
}

if (interval && !clientserver) {
    fprintf(stderr, "interval option only supported for client/server mode\n");
    fflush(stderr);
    exit(1);
}

if (reverse && !clientserver) {
    fprintf(stderr, "flip option only supported for client/server mode\n");
    fflush(stderr);
    exit(1);
}

if (reverse && udp) {
    fprintf(stderr, "flip option not supported for UDP\n");
    fflush(stderr);
    exit(1);
}

if (client && !sinkmode && udp) {
    fprintf(stderr, "Warning: UDP transfers unreliable for non-sinkmode - use at own risk\n");
    fflush(stderr);
}

if (traceroute) {
    nstream = 1;
    if (!clientserver) {
        fprintf(stderr, "traceroute option only supported for client/server mode\n");
        fflush(stderr);
        exit(1);
    }
}

if (host3) {
    if (!clientserver) {
        fprintf(stderr, "3rd party nuttcp only supported for client/server mode\n");
        fflush(stderr);
        exit(1);
    }
}

if (udp && (buflen < 5)) {
    fprintf(stderr, "UDP buflen = %d < 5, set to 5\n", buflen);
    buflen = 5; /* send more than the sentinel size */
}
if (udp && (buflen > MAXUDPBUFSIZE)) {
    fprintf(stderr, "UDP buflen = %d > MAXUDPBUFSIZE, set to %d\n", buflen, MAXUDPBUFSIZE);
    buflen = MAXUDPBUFSIZE;
}

if (nbuf_bytes && !host3 && !traceroute) {
    nbuf /= buflen;
}

if ((rate != MAXRATE) && rate_pps && !host3 && !traceroute) {
    uint64_t llrate = rate;

    llrate *= ((double)buflen * 8 / 1000);
    rate = llrate;
}

if (udp && interval) {
    if (buflen >= 32)
        udplossinfo = 1;
    else
        fprintf(stderr, "Unable to print interval loss information if UDP buflen < 32\n");
}

if (udp && (do_jitter & JITTER_IGNORE_OOO)) {
    if (buflen >= 32)
        udplossinfo = 1;
    else
        fprintf(stderr, "Unable to check out of order when calculating jitter if UDP buflen < 32\n");
}

if (!udp && trans) {
    if (buflen >= 32) {
        retransinfo = 1;
        #if defined(linux)
            cwndinfo = 1;
        #endif
        b_flag = 1;
    }
    else
        fprintf(stderr, "Unable to print retransmission information if TCP buflen < 32\n");
}

if (udp && do_owd && (buflen < 16)) {
    fprintf(stderr, "Unable to calculate one-way delay if UDP buflen < 16\n");
}

ivers = vers_major*10000 + vers_minor*100 + vers_delta;
mallocsize = buflen;
if (mallocsize < MINMALLOC) mallocsize = MINMALLOC;
#if defined(linux)
if (directio) {
    error_num = posix_memalign((void **)&buf, sysconf(_SC_PAGESIZE),
        mallocsize);
    if (error_num) {
        errno = error_num;
        err("posix_memalign");
    }
} else
#endif
if ((buf = (char *)malloc(mallocsize)) == (char *)NULL)
    err("malloc");

pattern(buf, buflen);

#endif SIGPIPE
signal(SIGPIPE, sigpipe);
#endif

signal(SIGINT, sigint);

if (clientserver && client && !thirdparty &&
    beta && !(format & NOBETAMSG) && (do_jitter || do_owd)) {
    fprintf(stderr, "nuttcp-%d.%d.%d: ",
        vers_major, vers_minor, vers_delta);
    fprintf(stderr, "Using beta vers: %s interface/output 
" "subject to change\n", BETA_FEATURES);
    fprintf(stderr, " (to suppress this message 
" "use \-f-beta\)\n\n"));
    fflush(stderr);
}

doit:
if (!udp && trans && (format & DEBUGRETRANS)) {
    sretrans = get_retrans(-1, &tcpinf);
    fprintf(stdout, "initial system retrans = %d\n", sretrans);
}
nretrans[0] = 0;
cwnd[0] = 0;

for (stream_idx = 1; stream_idx <= nstream; stream_idx++) {
    fd[stream_idx] = -1;
    nretrans[stream_idx] = 0;
    cwnd[stream_idx] = 0;
}
for (stream_idx = start_idx; stream_idx <= nstream; stream_idx++) {
    if (clientserver && (stream_idx == 1)) {
        retransinfo = 0;
        cwndinfo = 0;
        if (nstream == 1) {
            send_retrans = 1;
            read_retrans = 1;
            send_cwnd = 1;
            read_cwnd = 1;
        }
        do_retrans = 0;
        do_cwnd = 0;
        got_0retrans = 0;
        if (client) {
            if (udp && !host3 && !traceroute) {
                ctlconnmss = 0;
                optlen = sizeof(ctlconnmss);
                if (getsockopt(fd[0], IPPROTO_TCP, TCP_MAXSEG, (void *)&ctlconnmss, &optlen) < 0)
                    err("get ctlconn maximum segment size didn't work");
                if (!ctlconnmss) {
                    ctlconnmss = NON_JUMBO_ETHER_MSS;
                    if (format & DEBUGMTU) {
                        fprintf(stderr, "nuttcp%s%s: Warning: Control connection MSS reported as 0, using %d\n", trans?"-t":"-r", ident, ctlconnmss);
                        fflush(stderr);
                    }
                } else if (format & DEBUGMTU)
                    fprintf(stderr, "ctlconnmss = %d\n", ctlconnmss);
            }
        }
        else if (format & DEBUGMTU)
            fprintf(stderr, "ctlconnmss = %d\n", ctlconnmss);
        if (buflenopt) {
            if (buflen >
                ctlconnmss +
                TCP_UDP_HDRLEN_DELTA +
                TCP_TIMESTAMPS_OPTLEN) {
                if (format & PARSE)
                    fprintf(stderr, "nuttcp%s%s: Warning="IP_frags_or_no_data_reception_since_buflen=%d>_ctlconnmss=%d\n", trans?"-t":"-r", ident, buflen, ctlconnmss);
                else
                    fprintf(stderr, "nuttcp%s%s: Warning: IP frags or no data reception since buflen=%d > ctlconnmss=%d\n", trans?"-t":"-r", ident, buflen, ctlconnmss);
                fflush(stderr);
            }
        }
        while (buflen > ctlconnmss) {
            buflen >>= 1;
        }
    }
}
if (nbuf_bytes)
nbuf <<= 1;
if ((rate != MAXRATE) &&
    rate_pps)
    rate >>= 1;
}
}
if (format & DEBUGMTU)
    fprintf(stderr, "buflen = %d\n", buflen);
}
if (!ctlconn = fdopen(fd[0], "w"))
    err("fdopen: ctlconn for writing");
if (!sinkmode) {
    if (trans)
        savestdin=dup(0);
    else {
        savestdout=dup(1);
        close(1);
        dup(2);
    }
    close(0);
    dup(fd[0]);
    if (srvr_helo) {
        fprintf(ctlconn,
            HELO_FMT, vers_major,
            vers_minor, vers_delta);
        fflush(ctlconn);
        if (!fgets(buf, mallocsize, stdin)) {
            if ((errno == ECONNRESET) &&
                (num_connect_tries <
                    MAX_CONNECT_TRIES) &&
                retry_server) {
                /* retry control
                 * connection to server
                 * for certain possibly
                 * transient errors */
                fclose(ctlconn);
                goto doit;
            }
            mes("error from server");
            fprintf(stderr, "server aborted connection\n");
            fflush(stderr);
            exit(1);
        }
        if (sscanf(buf, HELO_FMT,
            &rvers_major,
            &rvers_minor,
&rvers_delta) < 3) {
  rvers_major = 0;
  rvers_minor = 0;
  rvers_delta = 0;
  srvr_helo = 0;
  while (fgets(buf, mallocsize, stdin)) {
    if (strncmp(buf, "KO", 2) == 0) break;
  }
  fclose(ctlconn);
  goto doit;
}
irvers = rvers_major*10000 + rvers_minor*100 + rvers_delta;
}
if (host3 && nbuf_bytes && (irvers < 50501))
  nbuf /= buflen;
if (host3 && (rate != MAXRATE) && rate_pps &&
  (irvers < 50501)) {
  uint64_t llrate = rate;
  llrate *= ((double)buflen * 8 / 1000);
  rate = llrate;
}
if (host3 && !buflenopt && (irvers >= 50302))
  buflen = 0;
fprintf(ctlconn, "%d, nbuf = %llu, win = %d, nstream = %d, rate = %lu, port = %hu, trans = %d, braindead = %d", buflen, nbuf, srvrwin, nstream, rate, port, trans, braindead);
if (irvers >= 50200)
  fprintf(ctlconn, ", timeout = %f", timeout);
else {
  timeout_sec = timeout;
  if (itimer.it_value.tv_usec)
    timeout_sec++;
  fprintf(ctlconn, ", timeout = %ld", timeout_sec);
  if (!trans && itimer.it_value.tv_usec &&
    (brief <= 0)) {
    fprintf(stdout, "nuttcp-r%s: transmit timeout value rounded up to %ld second%s for old server\n", ident, timeout_sec, (timeout_sec == 1)?":"":"s");
  }
  fprintf(ctlconn, ", udp = %d, vers = %d.%d.%d", udp, vers_major, vers_minor, vers_delta);
  if (irvers >= 30302)
    fprintf(ctlconn, ", interval = %f", interval);
  else {

if (interval) {
    fprintf(stdout, "nuttcp%s%s: interval option not supported by server version %d.%d.%d, need >= 3.3.2\n", 
        trans?"-t":"-r", 
        ident, rvers_major, 
        rvers_minor, 
        rvers_delta);
    fflush(stdout);
    interval = 0.0;
    abortconn = 1;
}
}
if (irvers >= 30401)
    fprintf(ctlconn, ", reverse = %d", reverse);
else {
    if (reverse) {
        fprintf(stdout, "nuttcp%s%s: flip option not supported by server version %d.%d.%d, need >= 3.4.1\n", 
            trans?"-t":"-r", 
            ident, rvers_major, 
            rvers_minor, 
            rvers_delta);
        fflush(stdout);
        reverse = 0;
        abortconn = 1;
    }
}
if (irvers >= 30501)
    fprintf(ctlconn, ", format = %d", format);
else {
    if (format) {
        fprintf(stdout, "nuttcp%s%s: format option not supported by server version %d.%d.%d, need >= 3.5.1\n", 
            trans?"-t":"-r", 
            ident, rvers_major, 
            rvers_minor, 
            rvers_delta);
        fflush(stdout);
        format = 0;
    }
}
if (irvers >= 30601) {
    fprintf(ctlconn, ", traceroute = %d", traceroute);
    if (traceroute)
        skip_data = 1;
    fprintf(ctlconn, ", irate = %d", irate);
} 
else {
    if (traceroute) {
        fprintf(stdout, "nuttcp%s%s: traceroute option not supported by server version %d.%d.%d, need >= 3.6.1\n", 
            trans?"-t":"-r", 
            format = 0;
    }
}
ident, rvers_major,
  rvers_minor,
  rvers_delta);
  fflush(stdout);
  traceroute = 0;
  abortconn = 1;
  }
  if (irate && !trans) {
    fprintf(stderr, "%s: instantaneous rate option not supported by server version %d.%d.%d, need >= 3.6.1\n",
        trans ?"-t":"-r",
        ident, rvers_major,
        rvers_minor,
        rvers_delta);
    fflush(stdout);
    irate = 0;
  }
  }
  }
  if (srvrwin && udp && (rvers < 30602)) {
    fprintf(stderr, "%s: server version %d.%d.%d ignores UDP window parameter, need >= 3.6.2\n",
        trans ?"-t":"-r",
        ident, rvers_major,
        rvers_minor,
        rvers_delta);
    fflush(stdout);
    irate = 0;
  }
  if ((rvers < 40101) && (format & PARSE)) {
    fprintf(stderr, "%s: "-fparse" option not supported by server version %d.%d.%d, need >= 4.1.1\n",
        trans ?"-t":"-r",
        ident, rvers_major,
        rvers_minor,
        rvers_delta);
    fflush(stdout);
    format &= ~PARSE;
    abortconn = 1;
  }
  if (rvers >= 50001) {
    cp1 = NULL;
    if (host3 && (rvers < 70101) &&
        (cp1 = strchr(host3, '=')))
      *cp1 = '\0';
    fprintf(ctlconn, ", thirdparty = %.*s", HOST3BUFLEN, host3 ? host3 : "_NULL_");
    if (host3) {
      skip_data = 1;
      fprintf(ctlconn, ", brief3 = %d", brief);
    }
    if (cp1)
      *cp1 = '=';
  }
else {
    if (host3) {
        fprintf(stdout, "nuttcp%s%s: 3rd party nuttcp not supported by server version %d.%d.%d, need >= 5.0.1\n",
        trans?"-t":"-r",
        ident, rvers_major,
        rvers_minor,
        rvers_delta);
        fflush(stdout);
        host3 = NULL;
        abortconn = 1;
    } else {
        if (host3 && !abortconn) {
            if (irvers >= 60205) {
                fprintf(ctlconn,
                        " , ctlport3 = %hu",
                        ctlport3);
                } else {
                    if (ctlport3) {
                        fprintf(stdout, "nuttcp%s%s: ctlport3 option not supported by server version %d.%d.%d, need >= 6.2.5\n",
                        trans?"-t":"-r",
                        ident,
                        rvers_major,
                        rvers_minor,
                        rvers_delta);
                        fflush(stdout);
                        ctlport3 = 0;
                        abortconn = 1;
                    } else {
                        if (multicast) {
                            fprintf(stdout, "nuttcp%s%s: multicast not supported by server version %d.%d.%d, need >= 5.1.1\n",
                            trans?"-t":"-r",
                            ident, rvers_major,
                            rvers_minor,
                            rvers_delta);
                            fflush(stdout);
                            multicast = 0;
                            abortconn = 1;
                        } else {
                            if (multicast) {
                                fprintf(stdout, "nuttcp%s%s: multicast not supported by server version %d.%d.%d, need >= 5.1.1\n",
                                trans?"-t":"-r",
                                ident, rvers_major,
                                rvers_minor,
                                rvers_delta);
                                fflush(stdout);
                                multicast = 0;
                                abortconn = 1;
                            }
                        }
                    }
                }
            }
        if (irvers >= 60201) {
            fprintf(ctlconn, ", multicast = %d", multicast);
        } else {
            if (multicast) {
                fprintf(stdout, "nuttcp%s%s: multicast not supported by server version %d.%d.%d, need >= 5.1.1\n",
                        trans?"-t":"-r",
                        ident, rvers_major,
                        rvers_minor,
                        rvers_delta);
                        fflush(stdout);
                        multicast = 0;
                        abortconn = 1;
                    }
                }
        }
    }
}
fprintf(ctlconn, " , ssm = %d", ssm);
}
else {
if (multicast && (ssm == 1)) {
fprintf(stdout, "nuttcp%s%s: ssm not supported by server version %d.%d.%d, need >= 6.2.1\n", 
trans?-t":"-r",
ident, rvers_major,
rvers_minor,
rvers_delta);
fflush(stdout);
ssm = 0;
abortconn = 1;
}
}
if (irvers >= 50201) {
fprintf(ctlconn, " , datamss = %d", datamss);
}
else {
if (datamss && !trans) {
fprintf(stdout, "nuttcp%s%s: mss option not supported by server version %d.%d.%d, need >= 5.2.1\n", 
trans?-t":"-r",
ident, rvers_major,
rvers_minor,
rvers_delta);
fflush(stdout);
datamss = 0;
abortconn = 1;
}
}
if (irvers >= 50301) {
fprintf(ctlconn, " , tos = %X", tos);
}
else {
if (tos && !trans) {
fprintf(stdout, "nuttcp%s%s: tos option not supported by server version %d.%d.%d, need >= 5.3.1\n", 
trans?-t":"-r",
ident, rvers_major,
rvers_minor,
rvers_delta);
fflush(stdout);
tos = 0;
abortconn = 1;
}
}
if (irvers >= 50501) {
fprintf(ctlconn, " , nbuff_bytes = %d", nbuff_bytes);
fprintf(ctlconn, " , rate_pps = %d", rate_pps);
fprintf(ctlconn, " , nodelay = %d", nodelay);
else {
    if (host3 && udp && nbuf_bytes) {
        fprintf(stdout, "nuttcp%s%s: Warning: "-n" option in bytes for third party not supported\n",
                   trans ? "-t": "-r", ident);
        fprintf(stdout, "Warning: by server version %d.%d.%d, need >= 5.5.1\n",
                   rvers_major,  rvers_minor,  rvers_delta);
        fprintf(stdout, "Warning: third party request may not transfer\n");
        fprintf(stdout, "Warning: desired number of bytes in some UDP cases\n");
        fflush(stdout);
        nbuf_bytes = 0;
    }
    if (host3 && udp && rate_pps) {
        fprintf(stdout, "nuttcp%s%s: Warning: "-R" option in pps for third party not supported\n",
                   trans ? "-t": "-r", ident);
        fprintf(stdout, "Warning: by server version %d.%d.%d, need >= 5.5.1\n",
                   rvers_major,  rvers_minor,  rvers_delta);
        fprintf(stdout, "Warning: third party request may not produce\n");
        fprintf(stdout, "Warning: desired pps rate in some UDP cases\n");
        fflush(stdout);
        rate_pps = 0;
    }
    if (nodelay && !trans) {
        fprintf(stdout, "nuttcp%s%s: TCP_NODELAY opt not supported by server version %d.%d.%d, need >= 5.5.1\n",
                   trans ? "-t": "-r", ident, rvers_major,  rvers_minor,  rvers_delta);
        fflush(stdout);
        nodelay = 0;
        abortconn = 1;
    }
}
if (irvers >= 60206) {
    if (host3) {
        fprintf(ctlconn, ", affinity = %d",
                   affinity);
    } else {
        fprintf(ctlconn, ", srvr_affinity = %d",
                   srvr_affinity);
    }
}
if (srvr_affinity >= 0) {
    fprintf(stdout, "nuttcp%s%s: affinity option not supported by server version %d.%d.%d, need >= 6.2.6\n",
        trans ? "-t": "-r",
        ident, rvers_major,
        rvers_minor,
        rvers_delta);
    fflush(stdout);
    srvr_affinity = -1;
    abortconn = 1;
} }
if (irvers >= 60207) {
    fprintf(ctlconn, " , maxburst = %d",
        maxburst);
} }
else {
    if ((maxburst > 1) &&
        (!trans || host3)) {
        fprintf(stdout, "nuttcp%s%s: packet burst not supported by server version %d.%d.%d, need >= 6.2.7\n",
            trans ? "-t": "-r",
            ident, rvers_major,
            rvers_minor,
            rvers_delta);
        fflush(stdout);
        maxburst = 1;
        abortconn = 1;
    }
    if (irvers >= 70001) {
        fprintf(ctlconn, " , do_jitter = %d",
            do_jitter);
    } else {
        if (do_jitter && trans) {
            fprintf(stderr, "nuttcp%s%s: jitter not supported by server version %d.%d.%d, need >= 7.0.1\n",
                trans ? "-t": "-r",
                ident, rvers_major,
                rvers_minor,
                rvers_delta);
            fflush(stderr);
            do_jitter = 0;
            abortconn = 1;
        }
    }
}
!trans && !(udp && interval)) {
    udplossinfo = 0;
    fprintf(stdout, "nuttcp%s%s: Unable to check out of order when calculating jitter\n",
     trans?"-t":"-r", ident);
    fprintf(stdout, " due to using older server version %d.%d.%d, need >= 7.0.1\n",
     rvers_major, 
     rvers_minor, 
     rvers_delta);
    fflush(stdout);
}
}
if (irvers >= 70001) {
    fprintf(ctlconn, " , do_owd = %d", do_owd);
}
else {
    if (do_owd) {
        fprintf(stdout, "nuttcp%s%s: owd not supported by server version %d.%d.%d, need >= 7.0.1\n",
     trans?"-t":"-r", 
     ident, rvers_major, 
     rvers_minor, 
     rvers_delta);
        fflush(stdout);
        do_owd = 0;
        abortconn = 1;
    }
}
if (irvers >= 70101) {
    fprintf(ctlconn, " , stride = %d", ipad_stride.ip32);
}
else {
    if (ipad_stride.ip32) {
        fprintf(stdout, "nuttcp%s%s: stride not supported by server version %d.%d.%d, need >= 7.1.1\n",
     trans?"-t":"-r", 
     ident, rvers_major, 
     rvers_minor, 
     rvers_delta);
        flush(stdout);
        ipad_stride.ip32 = 0;
        abortconn = 1;
    }
}
if (irvers >= 70101) {
    fprintf(ctlconn, " , multilink = %d", multilink);
}
else {
    if (multilink) {
        fprintf(stdout, "nuttcp%s%s: multilink not supported by server version %d.%d.%d, need >= 7.1.1\n",
     trans?"-t":"-r", 

ident, rvers_major,
rvers_minor,
rvers_delta);
fflush(stdout);
multilink = 0;
abortconn = 1;
}
}
if (irvers >= 70201) {
fprintf(ctlconn, ", group = %.s", ADDRSTRLEN, mc_addr ? mc_addr : "_NULL_");
}
else {
if (mc_addr) {
fprintf(stdout, "nuttcp%s%s: multicast group option not supported by server version %d.%d.%d, need >= 7.2.1\n",
trans?"-t":"-r",
ident, rvers_major,
rvers_minor,
rvers_delta);
fflush(stdout);
mc_addr = NULL;
abortconn = 1;
}
}
if (irvers >= 70301) {
fprintf(ctlconn, " , srcport = %hu", srcport);
}
else {
if (srcport &&
  ((!trans && !reverse) ||
   (trans && reverse) ||
   host3)) {
fprintf(stdout, "nuttcp%s%s: source port option not supported by server version %d.%d.%d, need >= 7.3.1\n",
trans?"-t":"-r",
ident, rvers_major,
rvers_minor,
rvers_delta);
fflush(stdout);
srcport = 0;
abortconn = 1;
}
}
if (irvers >= 80101) {
fprintf(ctlconn, ", iratesss = %d", iratesss);
}
else {
if (iratesss && !trans) {
fprintf(stdout, "nuttcp%s%s: smoothed slow start option not supported by server version %d.%d.%d, need >= 8.1.1\n",
trans?"-t":"-r",
ident, rvers_major,
rvers_minor,
rvers_delta);
fflush(stdout);
srcport = 0;
abortconn = 1;
}
}
trans?"-t":"-r",
ident, rvers_major,
rvers_minor,
rvers_delta);
fflush(stdout);
iratesss = 0;
}
}
fprintf(ctlconn, "\n");
fflush(ctlconn);
if (abortconn) {
 brief = 1;
if (!(trans && !reverse) ||
 (trans && & reverse))
 skip_data = 1;
}
if (!fgets(buf, mallocsize, stdin)) {
 mes("error from server");
 fprintf(stderr, "server aborted connection\n");
 fflush(stderr);
 exit(1);
}
if (irvers < 30403)
udplossinfo = 0;
if (irvers >= 50401) {
 two_bod = 1;
 handle_urg = 1;
}
if (udp || (buflen < 32) || (irvers < 60001)) {
if (trans)
 send_retrans = 0;
else
 read_retrans = 0;
}
if (udp || (buflen < 32) || (irvers < 80001)) {
if (trans)
 send_cwnd = 0;
else
 read_cwnd = 0;
}
if (strncmp(buf, "OK", 2) != 0) {
 mes("error from server");
 fprintf(stderr, "server ");
while (fgets(buf, mallocsize, stdin)) {
 if (strncmp(buf, "KO", 2) == 0)
 break;
 fputs(buf, stderr);
}
fflush(stderr);
exit(1);
} else {
  if (inetd) {
    ctlconn = stdin;
  } else {
    if (!(ctlconn = fdopen(fd[0], "r")))
      err("fdopen: ctlconn for reading");
  }
  fflush(stdout);
  if (!inetd) {
    /* manually started server */
    /* send stdout to client */
    savestdout=dup(1);
    close(1);
    dup(fd[0]);
    if (!nofork) {
      /* send stderr to client */
      close(2);
      dup(1);
    }
  }
  if (!fgets(buf, mallocsize, ctlconn)) {
    fputs("KO
", stdout);
    mes("no nuttcp HELO message");
    fputs("KO
", stdout);
    goto cleanup;
  }
  if (sscanf(buf, HELO_FMT, &rvers_major, &rvers_minor, &rvers_delta) == 3) {
    fprintf(stdout, HELO_FMT, vers_major, vers_minor, vers_delta);
    fflush(stdout);
    if (!fgets(buf, mallocsize, ctlconn)) {
      fputs("KO
", stdout);
      mes("no nuttcp parameters");
    }
    if (sscanf(buf, "OK v%d.%d.%d
", &rvers_major, &rvers_minor, &rvers_delta) < 3) {
      rvers_major = 0;
      rvers_minor = 0;
      rvers_delta = 0;
    }
    irvers = rvers_major*10000 + rvers_minor*100 + rvers_delta;
    usleep(10000);
  }
irvers = rvers_major*10000 + rvers_minor*100 + rvers_delta;

if (sscanf(buf, "buflen = %d, nbuf = %llu, win = %d, nstream = %d, rate = %lu, port = %hu, trans = %d, braindead = %d, timeout = %lf, udp = %d", &buflen, &nbuf, &sendwin, &nstream, &rate, &port, &trans, &braindead, &timeout, &udp, &rvers_major, &rvers_minor, &rvers_delta) < 13) {
    trans = !trans;
    puts("KO", stdout);
    mes("error scanning parameters");
    fprintf(stdout, "may be using older client version than server\n");
    puts(buf, stdout);
    puts("KO", stdout);
    goto cleanup;
}
irvers = rvers_major*10000 + rvers_minor*100 + rvers_delta;

if (irvers >= 30302)
    sscanf(strstr(buf, ", interval =") + 13, "%lf", &interval);
else
    interval = 0.0;

if (irvers >= 30401)
    sscanf(strstr(buf, ", reverse =") + 12, "%d", &reverse);
else
    reverse = 0;

if (irvers >= 30501)
    sscanf(strstr(buf, ", format =") + 11, "%d", &format);
else
    format = 0;

if (irvers >= 30601) {
    sscanf(strstr(buf, ", traceroute =") + 15, "%d", &traceroute);
    if (traceroute) {
        skip_data = 1;
        brief = 1;
    }
    sscanf(strstr(buf, ", irate =") + 10, "%d", &irate);
} else {
    traceroute = 0;
irate = 0;
}
if (irvers >= 50001) {
    sprintf(fmt, "%%%ds", HOST3BUFLEN);
    sscanf(strstr(buf, ", thirdparty =") + 15,
            fmt, host3buf);
    host3buf[HOST3BUFLEN] = '\0';
    if (strcmp(host3buf, "_NULL_") == 0)
        host3 = NULL;
    else
        host3 = host3buf;
if (host3) {
    if (no3rd) {
        fputs("KO\n", stdout);
        fprintf(stdout, "doesn't allow 3rd party nuttcp\n");
        fputs("KO\n", stdout);
        goto cleanup;
    }
    cp1 = host3;
    while (*cp1) {
        if (!isalnum((int)*cp1))
            && (*cp1 != '-')
            && (*cp1 != '.')
            && (*cp1 != ':')
            && (*cp1 != '/')
            && (*cp1 != '+')
            && (*cp1 != '=')) {
            fputs("KO\n", stdout);
            mes("invalid 3rd party host");
            fprintf(stdout, "3rd party host = '%s'
", host3);
            fputs("KO\n", stdout);
            goto cleanup;
        }
        cp1++;
    }
    skip_data = 1;
    brief = 1;
    sscanf(strstr(buf, ", brief3 =") + 11,
            "%d", &brief3);
}
}
else {
    host3 = NULL;
}
if (host3 && (irvers >= 60205)) {
    sscanf(strstr(buf, ", ctlport3 =") + 13,
            "%hu", &ctlport3);
}
else {
    ctiport3 = 0;
}
if (irvers >= 50101) {
    sscanf(strstr(buf, ", multicast =") + 14, "%d", &mc_param);
} else {
    mc_param = 0;
}
if (irvers >= 60201) {
    sscanf(strstr(buf, ", ssm =") + 8, "%d", &ssm);
} else {
    ssm = 0;
}
#ifndef MCAST_JOIN_SOURCE_GROUP
if (mc_param && (ssm == 1)) {
    fputs("KO
", stdout);
    fprintf(stdout, "server does not support ssm\n");
    fputs("KO
", stdout);
    goto cleanup;
}
#endif
if (irvers >= 50201) {
    sscanf(strstr(buf, ", datamss =") + 12, "%d", &datamss);
} else {
    datamss = 0;
}
if (irvers >= 50301) {
    sscanf(strstr(buf, ", tos =") + 8, "%X", &tos);
} else {
    tos = 0;
}
if (irvers >= 50501) {
    sscanf(strstr(buf, ", nbuf_bytes =") + 15, "%d", &nbuf_bytes);
    sscanf(strstr(buf, ", rate_pps =") + 13, "%d", &rate_pps);
    sscanf(strstr(buf, ", nodelay =") + 12, "%d", &nodelay);
}
else {
    nbuf_bytes = 0;
    rate_pps = 0;
    nodelay = 0;
}

if (irvers >= 60206) {
    if (host3) {
        sscanf(strstr(buf, 
            ", affinity =") + 13,
            
            "%d", &affinity);
        sscanf(strstr(buf, 
            ", srvr_affinity =")
            + 18,
            
            "%d", &srvr_affinity);
    } else {
        sscanf(strstr(buf, 
            ", affinity =") + 13,
            
            "%d", &srvr_affinity);
    }
} else {
    srvr_affinity = -1;
}

if (irvers >= 60207) {
    sscanf(strstr(buf, 
            ", maxburst =") + 13,
            
            "%d", &maxburst);
} else {
    maxburst = 1;
}

if (irvers >= 70001) {
    sscanf(strstr(buf, 
            ", do_jitter =") + 14,
            
            "%d", &do_jitter);
} else {
    do_jitter = 0;
}

if (irvers >= 70001) {
    sscanf(strstr(buf, 
            ", do_owd =") + 11,
            
            "%d", &do_owd);
} else {
    do_owd = 0;
}

if (irvers >= 70101) {
    sscanf(strstr(buf, 
            ", stride =") + 11,
            
            "%d", &ipad_stride.ip32);
if (irvers >= 70101) {
    sscanf(strstr(buf, 
        ", multilink =") + 14, 
        "%d", &multilink);
} else {
    multilink = 0;
}
if (irvers >= 70201) {
    sprintf(fmt, "%%%ds", ADDRSTRLEN);
    sscanf(strstr(buf, ", group =") + 10, 
        fmt, mcgaddr);
    mcgaddr[ADDRSTRLEN - 1] = '\0';
    if (strcmp(mcgaddr, "_NULL_") == 0)
        mc_addr = NULL;
    else
        mc_addr = mcgaddr;
    if (mc_addr) {
        cp1 = mc_addr;
        while (*cp1) {
            if (!isxdigit((int)(*cp1))
                && (*cp1 != '.')
                && (*cp1 != ':')) {
                fputs("KO
", stdout);
                mes("invalid multicast group");
                fprintf(stdout, "multicast group = '%s'
", mc_addr);
                fputs("KO
", stdout);
                goto cleanup;
            }
            cp1++;
        }
    } else {
        mc_addr = NULL;
    }
} if (irvers >= 70301) {
    sscanf(strstr(buf, 
        ", srcport =") + 12, 
        "%hu", &srcport);
} else {
    srcport = 0;
}
if (irvers >= 80101) {
    sscanf(strstr(buf, ", iratesss =") + 13,  
    "%d", &iratesss);
} else {
    iratesss = 0;
}
#if !defined(linux)
    iratesss = 0;
#endif
trans = !trans;
if (inetd && !sinkmode) {
    fputs("KO\n", stdout);
    mes("option \"-s\" invalid with inetd server");
    fputs("KO\n", stdout);
    goto cleanup;
}
if (!traceroute && !host3 &&
    (nbulen != buflen)) {
    if (nbulen < 1) {
        fputs("KO\n", stdout);
        mes("invalid buflen");
        fprintf(stdout, "buflen = %d\n", nbulen);
        fputs("KO\n", stdout);
        goto cleanup;
    }
    free(buf);
    mallocsize = nbulen;
    if (mallocsize < MINMALLOC) mallocsize = MINMALLOC;
#if defined(linux)
    if (directio) {
        error_num =posix_memalign(  
        (void **&buf,
        sysconf(_SC_PAGESIZE),
        mallocsize);
        if (error_num) {
            errno = error_num;
            err("posix_memalign");
        }
    }
#else
    #endif
    if ((buf = (char *)malloc(mallocsize)) == (char *)NULL)
        err("malloc");
    pattern( buf, nbulen );
    buflen = nbulen;
    if (nbulen < 1) {
        htons = htons;
        iratesss = iratesss;
        int i;
        int j;
        int k;
        int l;
        int m;
        int n;
        int o;
        int p;
        int q;
        int r;
        int s;
        int t;
        int u;
        int v;
        int w;
        int x;
        int y;
        int z;
        int aa;
        int bb;
        int cc;
        int dd;
        int ee;
        int ff;
        int gg;
        int hh;
        int ii;
        int jj;
        int kk;
        int ll;
        int mm;
        int nn;
        int oo;
        int pp;
        int qq;
        int rr;
        int ss;
        int tt;
        int uu;
        int vv;
        int ww;
        int xx;
        int yy;
        int zz;
        int aa;
        int bb;
        int cc;
        int dd;
        int ee;
        int ff;
        int gg;
        int hh;
        int ii;
        int jj;
        int kk;
        int ll;
        int mm;
        int nn;
        int oo;
        int pp;
        int qq;
        int rr;
        int ss;
        int tt;
        int uu;
        int vv;
        int ww;
        int xx;
        int yy;
        int zz;
        int aa;
        int bb;
        int cc;
        int dd;
        int ee;
        int ff;
        int gg;
        int hh;
        int ii;
        int jj;
        int kk;
        int ll;
        int mm;
        int nn;
        int oo;
        int pp;
        int qq;
        int rr;
        int ss;
        int tt;
        int uu;
        int vv;
        int ww;
        int xx;
        int yy;
fputs("KO\n", stdout);
mes("invalid nbuf");
fprintf(stdout, "nbuf = %llu\n", nbuf);
fputs("KO\n", stdout);
goto cleanup;
}
rcvwin = sendwin;
if (sendwin < 0) {
    fputs("KO\n", stdout);
    mes("invalid win");
    fprintf(stdout, "win = %d\n", sendwin);
    fputs("KO\n", stdout);
goto cleanup;
}
if ((nstream < 1) || (nstream > MAXSTREAM)) {
    fputs("KO\n", stdout);
    mes("invalid nstream");
    fprintf(stdout, "nstream = %d\n", nstream);
    fputs("KO\n", stdout);
goto cleanup;
}
if (nstream > 1) {
    b_flag = 1;
    send_retrans = 0;
    read_retrans = 0;
    send_cwnd = 0;
    read_cwnd = 0;
}
if (rate == 0)
    rate = MAXRATE;
if (timeout < 0) {
    fputs("KO\n", stdout);
    mes("invalid timeout");
    fprintf(stdout, "timeout = %f\n", timeout);
    fputs("KO\n", stdout);
goto cleanup;
}
itimer.it_value.tv_sec = timeout;
itimer.it_value.tv_usec =
    (timeout - itimer.it_value.tv_sec) * 1000000;
if ((port < 1024) || ((port + nstream - 1) > 65535)) {
    fputs("KO\n", stdout);
    mes("invalid port/nstream");
    fprintf(stdout, "port/nstream = %hu/%d\n", port, nstream);
    fputs("KO\n", stdout);
goto cleanup;
}
if (srcport && (srcport < 1024)) {
    fputs("KO\n", stdout);
    mes("invalid srcport");
    fprintf(stdout, "srcport = %hu\n", srcport);
    fputs("KO\n", stdout);
    goto cleanup;
}
if ((ctlport >= port) && (ctlport <= (port + nstream - 1))) {
    fputs("KO\n", stdout);
    mes("ctlport overlaps port/nstream");
    fprintf(stdout, "ctlport = %hu, port/nstream = %hu/%d\n", ctlport, port, nstream);
    fputs("KO\n", stdout);
    goto cleanup;
}
if (iratesss) {
    if (udp) {
        fputs("KO\n", stdout);
        mes("iratesss not allowed for udp");
        fputs("KO\n", stdout);
        goto cleanup;
    }
    if (maxburst > 1) {
        fputs("KO\n", stdout);
        mes("maxburst > 1 not allowed with iratesss");
        fprintf(stdout, "maxburst = %d\n", maxburst);
        fputs("KO\n", stdout);
        goto cleanup;
    }
    if (nstream > 1) {
        fputs("KO\n", stdout);
        mes("nstream > 1 not allowed with iratesss");
        fprintf(stdout, "nstream = %d\n", nstream);
        fputs("KO\n", stdout);
        goto cleanup;
    }
    if (host3 && ctlport3 && (ctlport3 < 1024)) {
        fputs("KO\n", stdout);
        mes("invalid ctlport3");
        fprintf(stdout, "ctlport3 = %hu\n", ctlport3);
        fputs("KO\n", stdout);
        goto cleanup;
    }
    if (interval < 0) {
        fputs("KO\n", stdout);
        mes("invalid interval");
        fprintf(stdout, "interval = %f\n", interval);
        fputs("KO\n", stdout);
        goto cleanup;
    }
}
fputs("KO\n", stdout);
goto cleanup;
}
if (mc_param) {
if ((mc_param < 1) ||
    (mc_param > 255)) {
    fputs("KO\n", stdout);
    mes("invalid multicast ttl");
    fprintf(stdout, "multicast ttl = %d\n", mc_param);
    fputs("KO\n", stdout);
    goto cleanup;
}
udp = 1;
nstream = 1;
if (rate == MAXRATE)
    rate = DEFAULT_UDP_RATE;
}
multicast = mc_param;
if (host3 && ((ssm < 0) || (ssm > 1)) ||
    (host3 && ((ssm < -1) || (ssm > 1)))) {
    fputs("KO\n", stdout);
    mes("invalid ssm value");
    fprintf(stdout, "ssm = %d\n", ssm);
    fputs("KO\n", stdout);
    goto cleanup;
}
if (datamss < 0) {
    fputs("KO\n", stdout);
    mes("invalid datamss");
    fprintf(stdout, "datamss = %d\n", datamss);
    fputs("KO\n", stdout);
    goto cleanup;
}
if (tos > 255) {
    fputs("KO\n", stdout);
    mes("invalid tos");
    fprintf(stdout, "tos = %d\n", tos);
    fputs("KO\n", stdout);
    goto cleanup;
}
if (nbuf_bytes < 0) {
    fputs("KO\n", stdout);
    mes("invalid nbuf_bytes");
    fprintf(stdout, "nbuf_bytes = %d\n", nbuf_bytes);
    fputs("KO\n", stdout);
    goto cleanup;
}
if (rate_pps < 0) {
  fputs("KO\n", stdout);
  mes("invalid rate_pps");
  fprintf(stdout, "rate_pps = %d\n", rate_pps);
  fputs("KO\n", stdout);
  goto cleanup;
}
if (nodelay < 0) {
  fputs("KO\n", stdout);
  mes("invalid nodelay");
  fprintf(stdout, "nodelay = %d\n", nodelay);
  fputs("KO\n", stdout);
  goto cleanup;
}
if ((srvr_affinity >= 0) && !host3) {
#ifdefined HAVE_SETAFFINITY
  CPU_ZERO(&cpu_set);
  CPU_SET(srvr_affinity, &cpu_set);
  if (sched_setaffinity(0,
           sizeof(cpu_set_t),
           &cpu_set) != 0) {
    fputs("KO\n", stdout);
    mes("couldn't change server "
         "CPU affinity");
    fprintf(stdout,
           "srvr_affinity = %d\n",
           srvr_affinity);
    fputs("KO\n", stdout);
    goto cleanup;
  }
#else
  fputs("KO\n", stdout);
  mes("server doesn't support setting "
       "CPU affinity");
  fprintf(stdout,
          "srvr_affinity = %d\n",
          srvr_affinity);
  fputs("KO\n", stdout);
  goto cleanup;
#endif
  
#endif
  
if (maxburst < 1) {
  fputs("KO\n", stdout);
  mes("invalid maxburst");
  fprintf(stdout, "maxburst = %d\n", maxburst);
  }
fputs("KO\n", stdout);
goto cleanup;

if (do_jitter < 0) {
fputs("KO\n", stdout);
mes("invalid do_jitter");
fprintf(stdout, "do_jitter = \%d\n", do_jitter);
fputs("KO\n", stdout);
goto cleanup;
}
if (do_jitter && !udp) {
fputs("KO\n", stdout);
fprintf(stdout, "jitter option not supported for TCP\n");
fputs("KO\n", stdout);
goto cleanup;
}
if (do_jitter && (!rate || (rate == MAXRATE))) {
fputs("KO\n", stdout);
fprintf(stdout, "jitter option not supported" " for unlimited rate\n");
fputs("KO\n", stdout);
goto cleanup;
}
if (do_owd < 0) {
fputs("KO\n", stdout);
mes("invalid do_owd");
fprintf(stdout, "do_owd = \%d\n", do_owd);
fputs("KO\n", stdout);
goto cleanup;
}
if (mc_addr) {
error_num = inet_pton(AF_INET, mc_addr, 
&dummy);
#ifdef AF_INET6
if (error_num != 1)
error_num = inet_pton(AF_INET6, mc_addr, &dummy);
#endif
if (error_num != 1) {
    fputs("KO\n", stdout);
    mes("invalid multicast group");
    fprintf(stdout, "multicast group = '%s'\n", mc_addr);
    fputs("KO\n", stdout);
    goto cleanup;
}

/* used to send server "OK" here -
* now delay sending of server OK until
* after successful server bind() -
* catches data port collision */
if (udp && (interval ||
    (do_jitter & JITTER_IGNORE_OOO)) &&
    (buflen >= 32) && (irvers >= 30403))
    udplossinfo = 1;
if (irvers >= 50401) {
    two_bod = 1;
    handle_urg = 1;
}
if (udp || (buflen < 32) || (irvers < 60001)) {
    if (trans)
        send_retrans = 0;
    else
        read_retrans = 0;
}
if (udp || (buflen < 32) || (irvers < 80001)) {
    if (trans)
        send_cwnd = 0;
    else
        read_cwnd = 0;
}

if (clientserver && client && (stream_idx == 1)) {
    reading_srvr_info = 1;
    pollfds[0].fd = fileno(ctlconn);
    pollfds[0].events = POLLIN | POLLPRI;
    pollfds[0].revents = 0;
    flags = fcntl(0, F_GETFL, 0);
    if (flags < 0)
        err("fcntl 1");
}
flags |= O_NONBLOCK;
if (fcntl(0, F_SETFL, flags) < 0)
  err("fcntl 2");
itimer.it_value.tv_sec = SRVR_INFO_TIMEOUT;
itimer.it_value.tv_usec = 0;
itimer.it_interval.tv_sec = 0;
itimer.it_interval.tv_usec = 0;
setitimer(ITIMER_REAL, &itimer, 0);
}
if (clientserver && client && (stream_idx == 1) &&
  ((pollst = poll(pollfds, 1, 0)) > 0) &&
  (pollfds[0].revents & (POLLIN | POLLPRI)) && !got_done) {
/* check for server output (mainly for server error) */
while (fgets(intervalbuf, sizeof(intervalbuf), stdin)) {
  setitimer(ITIMER_REAL, &itimer, 0);
  if (strncmp(intervalbuf, "DONE", 4) == 0) {
    if (format & DEBUGPOLL) {
      fprintf(stdout, "got DONE\n");
      fflush(stdout);
    } got_done = 1;
    intr = 1;
    break;
  } else if (strncmp(intervalbuf,
    "nuttcp-", 7) == 0) {
    if ((brief <= 0) ||
      strstr(intervalbuf, "Warning") ||
      strstr(intervalbuf, "Error") ||
      strstr(intervalbuf, "Debug")) {
      if (*ident) {
        fputs("nuttcp", stdout);
        fputs(trans ? "-r" : "-t", stdout);
        fputs(ident, stdout);
        fputs(intervalbuf + 8, stdout);
      } else
        fputs(intervalbuf, stdout);
    } else
      fflush(stdout);
  } else {

}
if (*ident)
  fprintf(stdout, "%s: ",
  ident + 1);
  fputs(intervalbuf, stdout);
  fflush(stdout);
}
}
}
if (clientserver && client && (stream_idx == 1)) {
  reading_srvr_info = 0;
  flags = fcntl(0, F_GETFL, 0);
  if (flags < 0)
    err("fcntl 1");
  flags &= ~O_NONBLOCK;
  if (fcntl(0, F_SETFL, flags) < 0)
    err("fcntl 2");
  itimer.it_value.tv_sec = 0;
  itimer.it_value.tv_usec = 0;
  setitimer(ITIMER_REAL, &itimer, 0);
}
if (!client) {
  if (af == AF_INET) {
    inet_ntop(af, &clientaddr.s_addr, hostbuf, sizeof(hostbuf));
  }
#ifdef AF_INET6
  else if (af == AF_INET6) {
    inet_ntop(af, clientaddr6.s6_addr, hostbuf, sizeof(hostbuf));
  }
#endif
  host = hostbuf;
}
if (multilink && !client &&
  ((trans && !reverse) || (!trans && reverse)) &&
  !udp && (stream_idx == 1)) {
  nameinfo_flags = NI_NAMEREQD;
  if (getnameinfo((struct sockaddr *)&client_ipaddr,
      sizeof(struct in6_addr),
      clientbuf, NI_MAXHOST,
      NULL, 0,
      nameinfo_flags) == 0) {
    bzero(&hints, sizeof(hints));
    res[0] = NULL;
    res[1] = NULL;
    hints.ai_family = af;
    if (udp)
      hints.ai_socktype = SOCK_DGRAM;
else
    hints.ai_socktype = SOCK_STREAM;
if (getaddrinfo(clientbuf, NULL, &hints, &res[1]) == 0) {
    for (i = 2; i <= nstream; i++) {
        if (res[i - 1]->ai_next)
            res[i] = res[i - 1]->ai_next;
        else
            res[i] = res[1];
    }
} else {
    if (res[1]) {
        freeaddrinfo(res[1]);
        res[1] = NULL;
    }
    multilink = 0;
} else
    multilink = 0;

if ((stream_idx > 0) && skip_data) {
    if (clientserver && !client && (stream_idx == 1)) {
        /* send server "OK" message */
        fprintf(stdout, "OK v%d.%d.%d\n", vers_major, vers_minor, vers_delta);
        fflush(stdout);
    }
    break;
}

bzero((char *)&sinme[stream_idx], sizeof(sinme[stream_idx]));
bzero((char *)&sinhim[stream_idx], sizeof(sinhim[stream_idx]));

#ifdef AF_INET6
    bzero((char *)&sinme6[stream_idx], sizeof(sinme6[stream_idx]));
bzero((char *)&sinhim6[stream_idx], sizeof(sinhim6[stream_idx]));
#endif

if (((trans && !reverse) && (stream_idx > 0)) ||
    (!trans && reverse) && (stream_idx > 0)) ||
    (client && (stream_idx == 0))) {
    /* xmitr initiates connections (unless reversed) */
    if (client) {
        if (af == AF_INET) {
sinhim[stream_idx].sin_family = af;
if (ipad_stride.ip32 && (stream_idx > 1)) {
    sinhim[stream_idx].sin_addr.s_addr =
    sinhim[stream_idx - 1].sin_addr.s_addr
    + ipad_stride.ip32;
} else {
    bcopy((char *)&(((struct sockaddr_in *)res[stream_idx]->ai_addr)->sin_addr),
    (char *)&sinhim[stream_idx].sin_addr.s_addr,
    sizeof(sinhim[stream_idx].sin_addr.s_addr));
}
#endif
else if (af == AF_INET6) {
    sinhim6[stream_idx].sin6_family = af;
    bcopy((char *)&(((struct sockaddr_in6 *)res[stream_idx]->ai_addr)->sin6_addr),
    (char *)&sinhim6[stream_idx].sin6_addr.s6_addr,
    sizeof(sinhim6[stream_idx].sin6_addr.s6_addr));
    sinhim6[stream_idx].sin6_scope_id = ((struct sockaddr_in6 *)res[stream_idx]->ai_addr)->sin6_scope_id;
} #endif
else {
    err("unsupported AF");
}
#endif
else {
    sinhim[stream_idx].sin_family = af;
    if (ipad_stride.ip32 && (stream_idx > 1)) {
        sinhim[stream_idx].sin_addr.s_addr =
        sinhim[stream_idx - 1].sin_addr.s_addr
        + ipad_stride.ip32;
    } else {
        if (multilink && (stream_idx > 0))
            sinhim[stream_idx].sin_addr =
            ((struct sockaddr_in *)res[stream_idx]->ai_addr)->sin_addr;
        else
            sinhim[stream_idx].sin_addr =
            clientaddr;
    }
#endif
else {
    sinhim6[stream_idx].sin6_family = af;
    if (multilink && (stream_idx > 0))
        sinhim6[stream_idx].sin6_addr =
        ((struct sockaddr_in6 *)res[stream_idx]->ai_addr)->sin6_addr;
    else
        sinhim6[stream_idx].sin6_addr =
        clientaddr6;
sinhim6[stream_idx].sin6_scope_id = clientscope6;
#endif
}
if (stream_idx == 0) {
    sinhim[stream_idx].sin_port = htons(ctlport);
    sinme[stream_idx].sin_port = htons(srcctlport); /* default is free choice */
#endif AF_INET6
    sinhim6[stream_idx].sin6_port = htons(ctlport);
    sinme6[stream_idx].sin6_port = htons(srcctlport); /* default is free choice */
#endif
}
else {
    sinhim[stream_idx].sin_port = htons(port + stream_idx - 1);
    sinme[stream_idx].sin_port = htons(srcport); /* default is free choice */
#endif AF_INET6
    sinhim6[stream_idx].sin6_port = htons(port + stream_idx - 1);
    sinme6[stream_idx].sin6_port = htons(srcport); /* default is free choice */
#endif
}
}
else {
    /* rcvr listens for connections (unless reversed) */
    if (stream_idx == 0) {
        sinme[stream_idx].sin_port = htons(ctlport);
        sinhim[stream_idx].sin_port = htons(srcctlport); /* default is free choice */
    } #ifdef AF_INET6
        sinme6[stream_idx].sin6_port = htons(ctlport);
        sinhim6[stream_idx].sin6_port = htons(srcctlport); /* default is free choice */
    #endif
    }
    else {
        sinme[stream_idx].sin_port = htons(port + stream_idx - 1);
        sinhim[stream_idx].sin_port = htons(srcport); /* default is free choice */
    } #ifdef AF_INET6
        sinme6[stream_idx].sin6_port = htons(port + stream_idx - 1);
        sinhim6[stream_idx].sin6_port = htons(srcport); /* default is free choice */
    #endif
    }
    sinme[stream_idx].sin_family = af;
} #ifdef AF_INET6
    sinme6[stream_idx].sin6_family = af;
#endif

if (((fd[stream_idx] = socket(domain, (udp && (stream_idx != 0))?SOCK_DGRAM:SOCK_STREAM, 0)) < 0) {
    if (clientserver && !client && (stream_idx == 1)) {
        save_errno = errno;
        fputs("KO
", stdout);
mes("Error: socket() on data stream failed");
puts("Error: ", stdout);
puts(strerror(save_errno), stdout);
puts("\n", stdout);
puts("KO\n", stdout);
goto cleanup;
}
er("socket");
}

if (setsockopt(fd[stream_idx], SOL_SOCKET, SO_REUSEADDR, (void *)&one, sizeof(one)) < 0) {
if (clientserver && !client && (stream_idx == 1)) {
save_errno = errno;
puts("KO\n", stdout);
mes("Error: setsockopt() 
  " to so_reuseaddr failed");
puts("Error: ", stdout);
puts(strerror(save_errno), stdout);
puts("\n", stdout);
puts("KO\n", stdout);
goto cleanup;
}
er("setsockopt: so_reuseaddr");
}

#ifdef IPV6_V6ONLY
if ((af == AF_INET6) && explicitaf && !v4mapped) {
if (setsockopt(fd[stream_idx], IPPROTO_IPV6, IPV6_V6ONLY, (void *)&one, sizeof(int)) < 0) {
if (clientserver && !client && (stream_idx == 1)) {
save_errno = errno;
puts("KO\n", stdout);
mes("Error: setsockopt() 
  " to ipv6_only failed");
puts("Error: ", stdout);
puts(strerror(save_errno), stdout);
puts("\n", stdout);
puts("KO\n", stdout);
goto cleanup;
}
er("setsockopt: ipv6_only");
}
#endif

if (af == AF_INET) {
if (bind(fd[stream_idx], (struct sockaddr *)&sinme[stream_idx], sizeof(sinme[stream_idx])) < 0) {
if (clientserver && !client && (stream_idx == 1)) {
save_errno = errno;
puts("KO\n", stdout);
mes("Error: bind() on data stream failed");
fputs("Error: ", stdout);
fputs(strerror(save_errno), stdout);
fputs("\n", stdout);
if (((!trans && !reverse)
|| (trans && reverse)) &&
 (errno == EADDRINUSE) &&
 (port == IPERF_PORT))
fputs("Info: Possible collision" 
 " with iperf server\n", stdout);
fputs("KO\n", stdout);
goto cleanup;
}
if (clientserver && client && (stream_idx == 1) &&
 ((!trans && !reverse) || (trans && reverse)) &&
 (errno == EADDRINUSE) && (port == IPERF_PORT)) {
errmes("bind");
fputs("Info: Possible collision" 
 " with iperf server\n", stderr);
fflush(stderr);
exit(1);
}
err("bind");
}
#endif
else if (af == AF_INET6)
{
 if (bind(fd[stream_idx], (struct sockaddr *)&sinme6[stream_idx], sizeof(sinme6[stream_idx])) < 0) {
 if (clientserver && !client && (stream_idx == 1)) {
 save_errno = errno;
 puts("KO\n", stdout);
 mes("Error: bind() on data stream failed");
 fputs("Error: ", stdout);
 fputs(strerror(save_errno), stdout);
 puts("\n", stdout);
 puts("KO\n", stdout);
goto cleanup;
 } err("bind");
 }
#endif
else {
 if (clientserver && !client && (stream_idx == 1)) {
 save_errno = errno;
 puts("KO\n", stdout);
"}
mes("Error: unsupported AF on data stream");
fputs("Error: ", stdout);
fputs(strerror(save_errno), stdout);
fputs("n", stdout);
fputs("KO\n", stdout);
goto cleanup;

    } err("unsupported AF");
}

if (clientserver && !client && (stream_idx == 1)) {
/* finally OK to send server "OK" message */
fprintf(stdout, "OK v%d.%d.%d\n", vers_major,
vers_minor, vers_delta);
fflush(stdout);
if ((trans && !reverse) || (!trans && reverse))
    usleep(50000);
}

if (clientserver && (stream_idx == 1)) {
if (!udp && trans) {[...]
    b_flag = 1;
}

if (stream_idx == nstream) {
if (brief <= 0)
    mes("socket");
#ifdef HAVE_SETPRIO
    if (priority && (brief <= 0)) {
        errno = 0;
priority = getpriority(PRIO_PROCESS, 0);
        if (errno)
            mes("couldn't get priority");
    else {
        if (format & PARSE)
            fprintf(stdout,
"nuttcp%s%s: 
"priority=%d\n",
trans ? ".t" : ".r",
ident, priority);
else
            fprintf(stdout,
"nuttcp%s%s: 
"priority = %d
",
trans ? ".t" : ".r",

ident, priority);
}
#endif

#ifdef HAVE_SETAFFINITY
if ((affinity >= 0) && (brief <= 0) && !host3) {
  int cpu_affinity;

  errno = 0;
  sched_getaffinity(0, sizeof(cpu_set_t),
                   &cpu_set);
  if (errno)
    mes("couldn't get affinity");
  else {
    for ( cpu_affinity = 0;
          cpu_affinity < ncores;
          cpu_affinity++ ) {
      if (CPU_ISSET(cpu_affinity,
                    &cpu_set))
        break;
    }
    if (format & PARSE)
      fprintf(stdout,
              "nuttcp%s%s: cpu_affinity=%d
", trans ? "-t" : "-r",
              ident, cpu_affinity);
    else
      fprintf(stdout,
              "nuttcp%s%s: affinity = CPU %d
", trans ? "-t" : "-r",
              ident, cpu_affinity);
  }
#endif

if (trans) {
  if ((brief <= 0) && (format & PARSE)) {
    fprintf(stdout, "nuttcp-%s: buflen=%d
", ident, buflen);
    if (nbuf != INT_MAX)
      fprintf(stdout, "nbuf=%llu
", nbuf);
    fprintf(stdout, "nstream=%d port=%d
", nstream, port);
    if (srcport)
      fprintf(stdout, " srcport=%d
", srcport);
  }
}
host);
if (multicast)
    fprintf(stdout, " multicast_ttl=%d",
    multicast);
fprintf(stdout, "nunn");;
if (timeout)
    fprintf(stdout, "nuttcp-t%s: time_limit=%.2f
",
    ident, timeout);
if ((rate != MAXRATE) || tos)
    fprintf(stdout, "nuttcp-t%s:", ident);
if (rate != MAXRATE) {
    fprintf(stdout, " rate_limit=%.3f rate_unit=Mbps rate_mode=%s",
    (double)rate/1000,
    irate ? "instantaneous" : "aggregate");
    if (iratesss)
        fprintf(stdout, " smoothed_slow_start=on"
    if (maxburst > 1)
        fprintf(stdout, " packet_burst=%d",
        maxburst);
        if (udp) {
            unsigned long long ppsrate =
            ((uint64_t)rate * 1000)/8/buflen;
            fprintf(stdout, " pps_rate=%llu",
            ppsrate);
        }
    } if (tos)
        fprintf(stdout, " tos=0x%X", tos);
    if ((rate != MAXRATE) || tos)
        fprintf(stdout, "nuttcp-t%s:", ident);
    } else if (brief <= 0) {
        fprintf(stdout, "nuttcp-t%s: buflen=%d, ",
        ident, buflen);
        if (nbuf != INT_MAX)
            fprintf(stdout, "nbuf=%llu, ", nbuf);
        fprintf(stdout, "nstream=%d, port=%d",
        nstream, port);
        if (srcport)
            fprintf(stdout, ", srcport=%d", srcport);
        fprintf(stdout, ", %s -> %s",
        udp?"udp":"tcp",
        host);
        } if (multicast)
            fprintf(stdout, " ttl=%d", multicast);
        fprintf(stdout, "nunn");;
fprintf(stdout, "nuttcp-t%s: time limit = %.2f second%s
", ident, timeout,
(timeout == 1.0)?"":"s");
if ((rate != MAXRATE) || tos)
    fprintf(stdout, "nuttcp-t%s: ", ident);
if (rate != MAXRATE) {
    fprintf(stdout, " rate limit = %.3f Mbps (%s)",
(double)rate/1000,
irate ? "instantaneous" : "aggregate");
    if (iratesss)
        fprintf(stdout, " with smoothed slow start");
    if (maxburst > 1)
        fprintf(stdout, ", packet burst = %d",
            maxburst);
    if (udp) {
        unsigned long long ppsrate =
            ((uint64_t)rate * 1000)/8/buflen;
            fprintf(stdout, ", %llu pps", ppsrate);
        }
if (tos)
    fprintf(stdout, ");
    }
else {
    if ((brief <= 0) && (format & PARSE)) {
        fprintf(stdout, "nuttcp-r%s: buflen=%d ",
            ident, buflen);
        if (nbuf != INT_MAX)
            fprintf(stdout, "nbuf=%llu ", nbuf);
        fprintf(stdout, "nstream=%d port=%d",
            nstream, port);
        if (srcport)
            fprintf(stdout, " srcport=%d", srcport);
        fprintf(stdout, ", mode=%s
", udp ? "udp":"tcp");
        if (tos)
            fprintf(stdout, "nuttcp-r%s: tos=0x%X
",
                ident, tos);
        if (interval)
            fprintf(stdout, "nuttcp-r%s: reporting_interval=%.2f
",
                ident, interval);
    } else if (brief <= 0) {

fprintf(stdout, "nuttcp-r%s: buflen=%d, ", ident, buflen);
if (nbuf != INT_MAX)
    fprintf(stdout, "nbuf=%llu, ", nbuf);
fprintf(stdout, "nstream=%d, port=%d",
    nstream, port);
if (srcport)
    fprintf(stdout, ", srcport=%d", srcport);
fprintf(stdout, " %s
", udp ? "udp":"tcp");
if (tos)
    fprintf(stdout, "nuttcp-r%s: tos = 0x%X
",
    ident, tos);
if (interval)
    fprintf(stdout, "nuttcp-r%s: interval reporting every %.2f second%s
",
    ident, interval,
    (interval == 1.0) ? "" : ":");
}
if (stream_idx > 0) {
    if (trans) {
        /* Set the transmitter options */
        if (sendwin) {
            if (setsockopt(fd[stream_idx], SOL_SOCKET, SO_SNDBUF,
                (void *)&sendwin, sizeof(sendwin)) < 0)
                errmes("unable to setsockopt SO_SNDBUF");
            if (braindead && (setsockopt(fd[stream_idx], SOL_SOCKET, SO_RCVBUF,
                (void *)&rcvwin, sizeof(rcvwin)) < 0))
                errmes("unable to setsockopt SO_RCVBUF");
        }
        if (tos) {
            if (af == AF_INET) {
                if (setsockopt(fd[stream_idx], IPPROTO_IP, IP_TOS,
                    (void *)&tos, sizeof(tos)) < 0)
                    err("setsockopt");
            }
            #ifdef AF_INET6
            else if (af == AF_INET6) {
                if (setsockopt(fd[stream_idx], IPPROTO_IPV6, IPV6_TCLASS,
                    (void *)&tos, sizeof(tos)) < 0)
                    err("setsockopt");
            }
            endif
        }
    }
    else {
        err("unsupported AF");
    }
}
if (nodelay && !udp) {
    struct protoent *p;
    p = getprotobynamel("tcp");
    if (p && setsockopt(fd[stream_idx], p->p_proto, TCP_NODELAY,
                        (void *)&one, sizeof(one)) < 0)
        err("setsockopt: nodelay");
    if ((stream_idx == nstream) && (brief <= 0))
        mes("nodelay");
}
else {
/* Set the receiver options */
    if (rcvwin) {
        if (setsockopt(fd[stream_idx], SOL_SOCKET, SO_RCVBUF,
                        (void *)&rcvwin, sizeof(rcvwin)) < 0)
            errmes("unable to setsockopt SO_RCVBUF");
        if (braindead && (setsockopt(fd[stream_idx], SOL_SOCKET, SO_SNDBUF,
                        (void *)&sendwin, sizeof(sendwin)) < 0))
            errmes("unable to setsockopt SO_SNDBUF");
    }
    if (tos) {
        if (af == AF_INET) {
            if (setsockopt(fd[stream_idx], IPPROTO_IP, IP_TOS,
                            (void *)&tos, sizeof(tos)) < 0)
                err("setsockopt");
        }
        #ifdef AF_INET6
        else if (af == AF_INET6) {
            if (setsockopt(fd[stream_idx], IPPROTO_IPV6, IPV6_TCLASS,
                            (void *)&tos, sizeof(tos)) < 0)
                err("setsockopt");
        }
        #endif
    }
    else {
        err("unsupported AF");
    }
}
if (!udp || (stream_idx == 0)) {
    if (((trans && !reverse) && (stream_idx > 0)) ||
        (!trans && reverse) && (stream_idx > 0)) ||
        (client && (stream_idx == 0))) {
        /* The transmitter initiates the connection
         * (unless reversed by the flip option)
         */
        if (options && (stream_idx > 0)) {
            if (setsockopt(fd[stream_idx], SOL_SOCKET, options,
                            (void *)&one, sizeof(one)) < 0)
errmes("unable to setsockopt options");
}
usleep(20000);
if (trans && (stream_idx > 0) && datamss)
#if defined(__CYGWIN__) || defined(_WIN32)
if (format & PARSE)
fprintf(stderr, "nuttcp%s%s: Warning=\"setting_maximum_segment_size_not_supported_on_windows\"\n", trans?"-t":"-r", ident);
else
fprintf(stderr, "nuttcp%s%s: Warning: setting maximum segment size not supported on windows\n", trans?"-t":"-r", ident);
fflush(stderr);
#endif
optlen = sizeof(datamss);
if ((sockopterr = setsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG, (void *)&datamss, optlen)) < 0)
if (errno != EINVAL)
err("unable to set maximum segment size");
}
if (clientserver && !client && (stream_idx == 1)) {
/* check if client went away */
pollfds[0].fd = fileno(ctlconn);
save_events = pollfds[0].events;
pollfds[0].events = POLLIN | POLLPRI;
pollfds[0].revents = 0;
if ((poll(pollfds, 1, 0) > 0) &&
(pollfds[0].events & (POLLIN | POLLPRI)))
goto cleanup;
pollfds[0].events = save_events;
}
um_connect_tries++;
if (stream_idx == 1)
gettimeofday(&timeconn1, (struct timezone *)0);
if (af == AF_INET) {
error_num = connect(fd[stream_idx], (struct sockaddr *)&sinhim[stream_idx], sizeof(sinhim[stream_idx]));
}
#endif
else if (af == AF_INET6) {
error_num = connect(fd[stream_idx], (struct sockaddr *)&sinhim6[stream_idx], sizeof(sinhim6[stream_idx]));
}
#else
err("unsupported AF");
}
if (error_num < 0) {
if (clientserver && client && (stream_idx == 0) &&
((errno == ECONNREFUSED) || (errno == ECONNRESET))
&& (num_connect_tries <
MAX_CONNECT_TRIES)
    && retry_server) {
    /* retry control connection to
     * server for certain possibly
     * transient errors */
    usleep(SERVER_RETRY_USEC);
    goto doit;
    }
    if (!trans && (stream_idx == 0))
    err("connect");
    if (stream_idx > 0) {
    if (clientserver && !client) {
    for ( i = 1; i <= stream_idx;
        i++ )
        close(fd[i]);
    goto cleanup;
    }
    err("connect");
    }
    if (stream_idx == 0) {
    clientserver = 0;
    if (thirdparty) {
        perror("3rd party connect failed");
        fprintf(stderr, "3rd party nuttcp only supported for client/server mode\n");
        fflush(stderr);
        exit(1);
    }
    if (interval) {
        perror("connect failed");
        fprintf(stderr, "interval option only supported for client/server mode\n");
        fflush(stderr);
        exit(1);
    }
    if (reverse) {
        perror("connect failed");
        fprintf(stderr, "flip option only supported for client/server mode\n");
        fflush(stderr);
        exit(1);
    }
    if (traceroute) {
        perror("connect failed");
        fprintf(stderr, "traceroute option only supported for client/server mode\n");
        fflush(stderr);
        exit(1);
    }
    if (host3) {
        perror("connect failed");
        fprintf(stderr, "3rd party nuttcp only supported for client/server mode\n");
fflush(stderr);
exit(1);
}
if (multicast) {
    perror("connect failed");
    fprintf(stderr, "multicast only supported for client/server mode\n");
    fflush(stderr);
    exit(1);
}
if (udp) {
    perror("connect failed");
    fprintf(stderr, "UDP transfers only supported for client/server mode\n");
    fflush(stderr);
    exit(1);
}
if (format & PARSE) {
    fprintf(stderr, "nuttcp%s%s: Info="attempting_to_switch_to_deprecated_classic_mode"
", trans?"-t":"-r", ident);
    fprintf(stderr, "nuttcp%s%s: Info="will_use_less_reliable_transmitter_side_statistics"
", trans?"-t":"-r", ident);
}
else {
    fprintf(stderr, "nuttcp%s%s: Info: attempting to switch to deprecated classic mode
", trans?"-t":"-r", ident);
    fprintf(stderr, "nuttcp%s%s: Info: will use less reliable transmitter side statistics
", trans?"-t":"-r", ident);
}
fflush(stderr);
}
}
if (stream_idx == 1) {
    get_timeofday(&timeconn2, (struct timezone *)0);
    tvsub( &timeconn, &timeconn2, &timeconn1 );
    rtt = timeconn.tv_sec*1000 +
    ((double)timeconn.tv_usec)/1000;
}
if (sockopterr && trans &&
    (stream_idx > 0) && datamss) {
    optlen = sizeof(datamss);
    if ((sockopterr = setsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG, (void *)&datamss, optlen)) < 0) {
        if (errno != EINVAL)
            err("unable to set maximum segment size");
        else
            err("setting maximum segment size not supported on this OS");
    }
    if (stream_idx == nstream) {
        optlen = sizeof(datamss);
if (getsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG, (void *)&datamss, &optlen) < 0)
  err("get dataconn maximum segment size didn't work");
if (format & DEBUGMTU)
  fprintf(stderr, "datamss = %d\n", datamss);
}
if ((stream_idx == nstream) && (brief <= 0)) {
  char tmphost[ADDRSTRLEN] = "0";
  if (af == AF_INET) {
    inet_ntop(af, &sinhim[stream_idx].sin_addr.s_addr, tmphost, sizeof(tmphost));
  }
#endif
  else if (af == AF_INET6) {
    if (!IN6_IS_ADDR_V4MAPPED(&sinhim6[stream_idx].sin6_addr)) {
      inet_ntop(af, sinhim6[stream_idx].sin6_addr.s6_addr, tmphost, sizeof(tmphost));
    } else {
      af = AF_INET;
      bcopy(((char *)&sinhim6[stream_idx].sin6_addr) + 12,
            (char *)&sinhim[stream_idx].sin_addr.s_addr, sizeof(struct in_addr));
      sinhim[stream_idx].sin_family = AF_INET;
      // port gets put in both structs, no translate or copy needed
      inet_ntop(af, &sinhim[stream_idx].sin_addr.s_addr, tmphost, sizeof(tmphost));
    }
  } else {
    err("unsupported AF");
}

if (format & PARSE) {
  fprintf(stdout,
    "nuttcp%s%s: connect=%s",
    trans?"-t":"-r", ident,
    tmphost);
  if (trans && datamss) {
    fprintf(stdout, " mss=%d",
              datamss);
  }
  if (rtt)
    fprintf(stdout, P_RTT_FMT, rtt);
} else {
  fprintf(stdout,
    "nuttcp%s%s: connect to %s with",
    trans?"-t":"-r", ident,
    tmphost);
  if (trans && datamss) {
fprintf(stdout, " mss=%d",
    datamss);
if (rtt)
fprintf(stdout, ",");
}  
if (rtt)
fprintf(stdout, RTT_FMT, rtt);
}
if (af == AF_INET) {
fprintf(stdout, " af=inet");
}  
#ifdef AF_INET6
else if (af == AF_INET6) {
fprintf(stdout, " af=inet6");
}
#else
else {
fprintf(stdout, " af=%d", af);
}
fprintf(stdout, "n");
}  
#else
/* The receiver listens for the connection
* (unless reversed by the flip option)
*/
if (trans && (stream_idx > 0) && datamss) {
#if defined(__CYGWIN__) || defined(_WIN32)
if (format & PARSE)
fprintf(stderr, "nuttcp%s%s: Warning="setting_maximum_segment_size_not_supported_on_windows\"n", trans?"-t":"-r", ident);
#else
fprintf(stderr, "nuttcp%s%s: Warning: setting maximum segment size not supported on windows\n", trans?"-t":"-r", ident);
#endif
fflush(stderr);
optlen = sizeof(datamss);
if ((sockopterr = setsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG,  (void *)&datamss, optlen)) < 0)
if (errno != EINVAL)
err("unable to set maximum segment size");
}
listen(fd[stream_idx], LISTEN_BACKLOG);
if (clientserver && "client" && (stream_idx == 0)
    && !inetd && !nofork && !forked) {
if ((pid = fork()) == (pid_t)-1)
err("can’t fork");
if (pid != 0)
exit(0);
forked = 1;
if (sinkmode) {
close(0);
close(1);
close(2);
open("/dev/null", O_RDWR);
dup(0);
dup(0);
}
setsid();
}
if (options && (stream_idx > 0)) {
if (setsockopt(fd[stream_idx], SOL_SOCKET, options, (void *)&one, sizeof(one)) < 0)
errmes("unable to setsockopt options");
}
if (sockopterr && trans &&
    (stream_idx > 0) && datamss) {
    optlen = sizeof(datamss);
    if ((sockopterr = setsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG, (void *)&datamss, optlen)) < 0)
if (errno != EINVAL)
err("unable to set maximum segment size");
}
if (clientserver && (stream_idx > 0)) {
sigact.sa_handler = ignore_alarm;
sigemptyset(&sigact.sa_mask);
sigact.sa_flags = 0;
sigaction(SIGALRM, &sigact, &savesigact);
alarm(ACCEPT_TIMEOUT);
}
acceptnewconn:
fromlen = sizeof(frominet);
nfd=accept(fd[stream_idx], (struct sockaddr *)&frominet, &fromlen);
save_errno = errno;
if (clientserver && (stream_idx > 0)) {
alarm(0);
sigact.sa_handler = savesigact.sa_handler;
sigact.sa_mask = savesigact.sa_mask;
sigact.sa_flags = savesigact.sa_flags;
sigaction(SIGALRM, &sigact, 0);
}
if (nfd < 0) {
/* check for interrupted system call - on
 * server, close data streams, cleanup and
 * try again - all other errors just die
 */
if ((save_errno == EINTR) && clientserver
    && (stream_idx > 0)) {
if (client) {

/* if client, just give nice
 * error message and exit
 */
mes("Error: accept() timeout");
exit(1);
}
for ( i = 1; i <= stream_idx; i++ )
close(fd[i]);
goto cleanup;
}
err("accept");
}
if (clientserver & & !client & & (stream_idx == 0)
 & & !inetd & & !nofork
 & & !single_threaded) {
  /* multi-threaded manually started server */
  if ((pid = fork()) == (pid_t)-1)
    err("can't fork");
  if (pid != 0) {
    /* parent just waits for quick
     * child exit */
    while (((wait_pid = wait(&pidstat))
        != pid) {
      if (wait_pid == (pid_t)-1) {
        if (errno == ECHILD)
          break;
        err("wait failed");
      }
    }
    /* and then accept()s another client
     * connection */
    close(nfd);
    stream_idx = 0;
    if (oneshot)
      exit(0);
    goto acceptnewconn;
  }
  /* child just makes a grandchild and then
   * immediately exits (avoid zombie processes) */
  if ((pid = fork()) == (pid_t)-1)
    err("can't fork");
  if (pid != 0)
    exit(0);
  /* grandkid does all the work */
  oneshot = 1;
  }
  af = frominet.ss_family;
close(fd[stream_idx]);
fd[stream_idx]=nfd;
if (sockopterr && trans &&
    (stream_idx > 0) && datamss) {
    optlen = sizeof(datamss);
    if ((sockopterr = setsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG, (void *)&datamss, optlen)) < 0) {
        if (errno != EINVAL)
            err("unable to set maximum segment size");
        else
            err("setting maximum segment size not supported on this OS");
    }
    if (stream_idx == nstream) {
        optlen = sizeof(datamss);
        if (getsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG, (void *)&datamss, &optlen) < 0)
            err("get dataconn maximum segment size didn't work");
        if (format & DEBUGMTU)
            fprintf(stderr, "datamss = \%d\n", datamss);
    }
    if (af == AF_INET) {
        struct sockaddr_in peer;
        socklen_t peerlen = sizeof(peer);
        if (getpeername(fd[stream_idx],
                        (struct sockaddr *)&peer,
                        &peerlen) < 0) {
            err("getpeername");
        }
        if ((stream_idx == nstream) && (brief <= 0)) {
            char tmphost[ADDRSTRLEN] = "\0";
            inet_ntop(af, &peer.sin_addr.s_addr, tmphost, sizeof(tmphost));
            if (format & PARSE) {
                fprintf(stdout,
                        "nuttcp%s%s: accept=%s",
                        trans?"-t":"-r", ident,
                        tmphost);
                if (trans && datamss) {
                    fprintf(stdout, " mss=%d",
                            datamss);
                }
            } else {
                fprintf(stdout,
                        "nuttcp%s%s: accept from %s with",
                        trans?"-t":"-r", ident,
                        tmphost);
                if (trans && datamss) {
                    fprintf(stdout, " mss=%d,",
                            datamss);
                }
            } else {
                fprintf(stdout,
                        "nuttcp%s%s: accept from %s with",
                        trans?"-t":"-r", ident,
                        tmphost);
                if (trans && datamss) {
                    fprintf(stdout, " mss=%d,",
                            datamss);
                }
            }
        }
    }
}
if (af == AF_INET) {
    fprintf(stdout, " af=inet");
}
#endif
else if (af == AF_INET6) {
    fprintf(stdout, " af=inet6");
#elseif AF_INET6
#endif
else {
    fprintf(stdout, " af=%d", af);
}
fprintf(stdout, 
);
if (stream_idx == 0) {
    clientaddr = peer.sin_addr;
    client_ipaddr.ss.ss_family = AF_INET;
    client_ipaddr.sin.sin_addr = clientaddr;
}
#endif
else if (af == AF_INET6) {
    struct sockaddr_in6 peer6;
    struct sockaddr_in peer4;
    socklen_t peerlen = sizeof(peer6);
    if (getpeername(fd[stream_idx],
                    (struct sockaddr *)&peer6,
                    &peerlen) < 0) {
        err("getpeername");
    }
    else {
        af = AF_INET;
        bcopy(((char *)&peer6.sin6_addr.s6_addr) + 12,
              (char *)&peer4.sin_addr.s_addr,
              sizeof(struct in_addr));
        peer4.sin_family = AF_INET;
        peer4.sin_port = peer6.sin6_port;
        inet_ntop(af, &peer4.sin_addr.s_addr, tmphost, sizeof(tmphost));
    }
} else {
    fprintf(stdout, 
        "nuttcp%s%s: accept=%s",
        "clientⓘ");
        client_ipaddr.ss.ss_family = AF_INET;
        client_ipaddr.sin.sin_addr = clientaddr;
    }

    struct sockaddr_in6 peer6;
    struct sockaddr_in peer4;
    socklen_t peerlen = sizeof(peer6);
    if (getpeername(fd[stream_idx],
                    (struct sockaddr *)&peer6,
                    &peerlen) < 0) {
        err("getpeername");
    }
    else {
        af = AF_INET;
        bcopy(((char *)&peer6.sin6_addr.s6_addr) + 12,
              (char *)&peer4.sin_addr.s_addr,
              sizeof(struct in_addr));
        peer4.sin_family = AF_INET;
        peer4.sin_port = peer6.sin6_port;
        inet_ntop(af, &peer4.sin_addr.s_addr, tmphost, sizeof(tmphost));
    }
    af = AF_INET;
    bcopy(((char *)&peer6.sin6_addr.s6_addr) + 12,
          (char *)&peer4.sin_addr.s_addr,
          sizeof(struct in_addr));
    peer4.sin_family = AF_INET;
    peer4.sin_port = peer6.sin6_port;
    inet_ntop(af, &peer4.sin_addr.s_addr, tmphost, sizeof(tmphost));
}
if (format & PARSE) {
    printf(stdout,
        "nuttcp%s%s: accept=%s",
        "clientⓘ");
        client_ipaddr.ss.ss_family = AF_INET;
        client_ipaddr.sin.sin_addr = clientaddr;
    }

    struct sockaddr_in6 peer6;
    struct sockaddr_in peer4;
    socklen_t peerlen = sizeof(peer6);
    if (getpeername(fd[stream_idx],
                    (struct sockaddr *)&peer6,
                    &peerlen) < 0) {
        err("getpeername");
    }
    else {
        af = AF_INET;
        bcopy(((char *)&peer6.sin6_addr.s6_addr) + 12,
              (char *)&peer4.sin_addr.s_addr,
              sizeof(struct in_addr));
        peer4.sin_family = AF_INET;
        peer4.sin_port = peer6.sin6_port;
        inet_ntop(af, &peer4.sin_addr.s_addr, tmphost, sizeof(tmphost));
    }
    if (stream_idx == 0) {
        clientaddr = peer.sin_addr;
        client_ipaddr.ss.ss_family = AF_INET;
        client_ipaddr.sin.sin_addr = clientaddr;
    }
#elseif AF_INET6
#endif
else {
    fprintf(stdout, " af=%d", af);
}
fprintf(stdout, 
);
    struct sockaddr_in6 peer6;
    struct sockaddr_in peer4;
    socklen_t peerlen = sizeof(peer6);
    if (getpeername(fd[stream_idx],
                    (struct sockaddr *)&peer6,
                    &peerlen) < 0) {
        err("getpeername");
    }
    else {
        af = AF_INET;
        bcopy(((char *)&peer6.sin6_addr.s6_addr) + 12,
              (char *)&peer4.sin_addr.s_addr,
              sizeof(struct in_addr));
        peer4.sin_family = AF_INET;
        peer4.sin_port = peer6.sin6_port;
        inet_ntop(af, &peer4.sin_addr.s_addr, tmphost, sizeof(tmphost));
    }
    af = AF_INET;
    bcopy(((char *)&peer6.sin6_addr.s6_addr) + 12,
          (char *)&peer4.sin_addr.s_addr,
          sizeof(struct in_addr));
    peer4.sin_family = AF_INET;
    peer4.sin_port = peer6.sin6_port;
    inet_ntop(af, &peer4.sin_addr.s_addr, tmphost, sizeof(tmphost));
}
if (format & PARSE) {
    printf(stdout,
        "nuttcp%s%s: accept=%s",
        "clientⓘ");
        client_ipaddr.ss.ss_family = AF_INET;
        client_ipaddr.sin.sin_addr = clientaddr;
    }

    struct sockaddr_in6 peer6;
    struct sockaddr_in peer4;
    socklen_t peerlen = sizeof(peer6);
    if (getpeername(fd[stream_idx],
                    (struct sockaddr *)&peer6,
                    &peerlen) < 0) {
        err("getpeername");
    }
    else {
        af = AF_INET;
        bcopy(((char *)&peer6.sin6_addr.s6_addr) + 12,
              (char *)&peer4.sin_addr.s_addr,
              sizeof(struct in_addr));
        peer4.sin_family = AF_INET;
        peer4.sin_port = peer6.sin6_port;
        inet_ntop(af, &peer4.sin_addr.s_addr, tmphost, sizeof(tmphost));
    }
    if (stream_idx == 0) {
        clientaddr = peer.sin_addr;
        client_ipaddr.ss.ss_family = AF_INET;
        client_ipaddr.sin.sin_addr = clientaddr;
    }
#elseif AF_INET6
#endif
else {
    fprintf(stdout, " af=%d", af);
}
fprintf(stdout, 
);
trans?"-t";"-r", ident,
tmphost);
    if (trans && datamss) {
        fprintf(stdout, " mss=%d", datamss);
    }
}
else {
    fprintf(stdout,
        "nuttcp%s%s: accept from %s with",
        trans?"-t";"-r", ident,
tmphost);
    if (trans && datamss) {
        fprintf(stdout, " mss=%d,",
            datamss);
    }
}
if (af == AF_INET) {
    fprintf(stdout, " af=inet");
}
#elseif AF_INET6
else if (af == AF_INET6) {
    fprintf(stdout, " af=inet6");
}
#endif
else {
    fprintf(stdout, " af=%d", af);
}
fprintf(stdout, ";n");
    } 
    if (stream_idx == 0) {
if (af == AF_INET6) { // we didnt fix a mapped v4 ip
    clientaddr6 = peer6.sin6_addr;
    clientscope6 = peer6.sin6_scope_id;
    client_ipaddr.ss.ss_family = AF_INET6;
    client_ipaddr.sin6.sin6_addr = clientaddr6;
}
else { // mapped so af is AF_INET
    clientaddr = peer4.sin_addr;
    client_ipaddr.ss.ss_family = AF_INET;
    client_ipaddr.sin.sin_addr = clientaddr;
}
}
#endif
else {
    err("unsupported AF");
}
}
if (!udp && trans && (stream_idx >= 1) && (retransinfo > 0)) {
  if ((stream_idx == 1) || (retransinfo == 1)) {
    nretrans[stream_idx] =
    get_retrans(fd[stream_idx], &tcpinf);
    iretrans[stream_idx] = nretrans[stream_idx];
    if defined(linux)
      if (retransinfo == 1) {
        cwnd[stream_idx] =
        tcpinf.tcpinfo_snd_cwnd
        *datamss/1024;
        if (stream_idx == 1) {
          init_pkt_cwnd =
          tcpinf.tcpinfo_snd_cwnd;
          sss_pkt_cwnd = init_pkt_cwnd;
        }
      }
    }
    #endif
  }
}
#endif

cwnd = sizeof(sendwinval);
if (getsockopt(fd[stream_idx], SOL_SOCKET, SO_SNDBUF, (void *)&sendwinval, &optlen) < 0)
  err("get send window size didn't work");
if (stream_idx > 0) && sendwin && (trans || braindead) &&
  (sendwinval < (0.98 * sendwin))) {
  if (format & PARSE)
    fprintf(stderr, "nuttcp%s%s: Warning="send_window_size_%d<_requested_window_size_%d
"n",
    trans?"-t":"-r", ident, sendwinval, sendwin);
  else
    fprintf(stderr, "nuttcp%s%s: Warning: send window size %d < requested window size %d
",
    trans?"-t":"-r", ident, sendwinval, sendwin);
  fflush(stderr);
}
optlen = sizeof(rcvwinval);
if (getsockopt(fd[stream_idx], SOL_SOCKET, SO_RCVBUF, (void *)&rcvwinval, &optlen) < 0)
  err("Get recv window size didn't work");
if (stream_idx > 0) && rcvwin && (!trans || braindead) &&
  (rcvwinval < (0.98 * rcvwin))) {
  if (format & PARSE)
    fprintf(stderr, "nuttcp%s%s: Warning="receive_window_size_%d<_requested_window_size_%d
",

trans?"-t":"-r", ident,
rcvwinval, rcvwin);
else
fprintf(stderr, "nuttcp%s%s: Warning: receive window size %d < requested window size %d\n", trans?"-t":"-r", ident,
rcvwinval, rcvwin);
fflush(stderr);
}

if (firsttime) {
firsttime = 0;
origsendwin = sendwinval;
origrcvwin = rcvwinval;
}

if ((stream_idx == nstream) && (brief <= 0)) {
#if defined(linux)
FILE *adv_ws;

sendwinval *= 2;
rcvwinval *= 2;
if ((adv_ws = fopen(TCP_ADV_WIN_SCALE, "r"))) {
if (fscanf(adv_ws, "%d", &winadjust) <= 0)
winadjust = 2;
fclose(adv_ws);
}
else {
winadjust = 2;
}
#else if (winadjust < 0) {
sendwinavail = sendwinval >> -winadjust;
rcvwinavail = rcvwinval >> -winadjust;
}
else if (winadjust > 0) {
sendwinavail = sendwinval -
(sendwinval >> winadjust);
rcvwinavail = rcvwinval -
(rcvwinval >> winadjust);
}
#endif
if (format & PARSE)
fprintf(stdout, "nuttcp%s%s: send_window_size=%d receive_window_size=%d\n", trans?"-t":"-r", ident,
sendwinval, rcvwinval);
else
fprintf(stdout, "nuttcp%s%s: send window size = %d, receive window size = %d\n", trans?"-t":"-r", ident,
sendwinval, rcvwinval);
#if defined(linux)
if (format & PARSE)
fprintf(stdout, "nuttcp%s%s: send_window_avail=%d receive_window_avail=%d\n", trans?-t-:"-r", ident, sendwinavail, rcvwinavail);
else
fprintf(stdout, "nuttcp%s%s: available send window = %d, available receive window = %d\n", trans?-t-:"-r", ident, sendwinavail, rcvwinavail);
if (!udp && trans && & init_pkt_cwnd) {
if (format & PARSE)
fprintf(stdout, "nuttcp%s%s: initial_congestion_window_kb=%d initial_congestion_window_pkt=%d\n", trans?-t-:"-r", ident, init_pkt_cwnd*datamss/1024, init_pkt_cwnd);
else
fprintf(stdout, "nuttcp%s%s: initial congestion window = %d KB (%d packets)\n", trans?-t-:"-r", ident, init_pkt_cwnd*datamss/1024, init_pkt_cwnd);
}
#endif
}

if (abortconn)
exiut(1);

if (host3 && & clientserver) {
char path[64];
char *cmd;

fflush(stdout);
fflush(stderr);
cmd = nut_cmd;

if (client) {
if (((pid = fork()) == (pid_t)-1)
err("can't fork");
if (pid == 0) {
if (interval) {
itimer.it_value.tv_sec = interval;
}
else if (timeout) {
itimer.it_value.tv_sec = timeout;
}
else {
if (rate != MAXRATE)
itimer.it_value.tv_sec =
(double)(2*nbuf*buflen)/rate/125;
else
itimer.it_value.tv_sec =
(double)(nbuf*buflen)/LOW_RATE_HOST3/125;
if (itimer.it_value.tv_sec < 7200)
itimer.it_value.tv_sec = 7200;
}

idle_data_max < SRVR_INFO_TIMEOUT ?
SRVR_INFO_TIMEOUT : idle_data_max;

setitimer(ITIMER_REAL, &itimer, 0);
while (fgets(linebuf, sizeof(linebuf),
stdin) && !intr) {
setitimer(ITIMER_REAL, &itimer, 0);
if (strncmp(linebuf, "DONE", 4)
== 0)
exit(0);
if (*ident && (*linebuf != '\n'))
fprintf(stdout, "%s: ",
ident + 1);
puts(linebuf, stdout);
flush(stdout);
}

setitimer(ITIMER_REAL, &itimer, 0);
exit(0);
}
signal(SIGINT, SIG_IGN);
while ((wait_pid = wait(&pidstat)) != pid) {
if (wait_pid == (pid_t)-1) {
if (errno == ECHILD)
break;
err("wait failed");
}
exit(0);
}
else {
if ((pid = fork()) == (pid_t)-1)
err("can't fork");
if (pid != 0) {
sigact.sa_handler = &sigalarm;
sigemptyset(&sigact.sa_mask);
sigact.sa_flags = 0;
sigaction(SIGALRM, &sigact, 0);
alarm(10);
while ((wait_pid = wait(&pidstat))
!= pid) {
if (wait_pid == (pid_t)-1) {
if (errno == ECHILD)
break;
if (errno == EINTR) {
pollfds[0].fd =
    fileno(ctlconn);
pollfds[0].events =
    POLLIN | POLLPRI;
pollfds[0].revents = 0;
if ((poll(pollfds, 1, 0)
    > 0)
    && (pollfds[0].revents &
        (POLLIN | POLLPRI))) {
    kill(pid,
        SIGINT);
sleep(1);
    kill(pid,
        SIGINT);
    continue;
}  
sigact.sa_handler =
    &sigalarm;
sigemptyset(&sigact.sa_mask);
sigact.sa_flags = 0;
sigaction(SIGALRM,
    &sigact, 0);
alarm(10);
continue;
}
err("wait failed");
}
}
fprintf(stdout, "DONE\n");
fflush(stdout);
goto cleanup;
}
close(2);
dup(1);
i = 0;
j = 0;
cmdargs[i++] = cmd;
cmdargs[i++] = "-3";
if (ctlport3) {
    sprintf(tmpargs[j], "-P%hu", ctlport3);
cmdargs[i++] = tmpargs[j++];
}
else {
    if (pass_ctlport) {
        sprintf(tmpargs[j], "-P%hu", ctlport);
        tmpargs[j] = NULL;
    }
    else {
        sprintf(tmpargs[j], "-P%hu", ctlport);
        tmpargs[j] = NULL;
    }
    tmpargs[j] = NULL;

cmdargs[i++] = tmpargs[j++];
}
}

if (affinity >= 0) {
    sprintf(tmpargs[j], "-xc%d", affinity);
    cmdargs[i++] = tmpargs[j++];
}

if (srvr_affinity >= 0) {
    sprintf(tmpargs[j], "-xcs%d", srvr_affinity);
    cmdargs[i++] = tmpargs[j++];
}

if (irvers < 50302) {
    if ((udp && !multicast
        && (buflen != DEFAULTUDPBUFLEN)) ||
        (udp && multicast
        && (buflen != DEFAULT_MC_UDPBUFLEN)) ||
        (?udp && (buflen != 65536))}{
        sprintf(tmpargs[j], "-l%d", buflen);
        cmdargs[i++] = tmpargs[j++];
    }

    else if (buflen) {
        sprintf(tmpargs[j], "-l%d", buflen);
        cmdargs[i++] = tmpargs[j++];
    }

    if (nbuf != INT_MAX) {
        if (nbuf_bytes)
            sprintf(tmpargs[j], "-n%llub", nbuf);
        else
            sprintf(tmpargs[j], "-n%llu", nbuf);
        cmdargs[i++] = tmpargs[j++];
    }

    if (brief3 != 1) {
        sprintf(tmpargs[j], "-b%d", brief3);
        cmdargs[i++] = tmpargs[j++];
    }

    if (sendwin) {
        sprintf(tmpargs[j], "-w%d", sendwin/1024);
        cmdargs[i++] = tmpargs[j++];
    }

    if (nstream != 1) {
        sprintf(tmpargs[j], "-N%d%s", nstream,
            multilink ? "m" : "");
        cmdargs[i++] = tmpargs[j++];
    }

    if (rate != MAXRATE) {
        if (maxburst > 1) {
            if (rate_pps)
sprintf(tmpargs[j],
"-R%ss%lu/%d",
irate ? "i" : "",
rate, maxburst);
else
sprintf(tmpargs[j],
"-R%ss%lu/%d",
irate ? "i" : "",
rate, maxburst);
}
else {
if (rate_pps)
sprintf(tmpargs[j],
"-R%ss%ss%lup",
irate ? "i" : "",
iratesss ? "s" : "",
rate);
else
sprintf(tmpargs[j],
"-R%ss%ss%lu",
irate ? "i" : "",
iratesss ? "s" : "",
rate);
}
cmdargs[i++] = tmpargs[j++];
}
else {
if (udp && !multicast)
cmdargs[i++] = "-R0";
}
if (srcport) {
sprintf(tmpargs[j], "-p%hu:%hu", srcport, port);
cmdargs[i++] = tmpargs[j++];
}
else if (port != DEFAULT_PORT) {
sprintf(tmpargs[j], "-p%hu", port);
cmdargs[i++] = tmpargs[j++];
}
if (trans)
cmdargs[i++] = "-r";
if (braindead)
cmdargs[i++] = "-wb";
if (timeout && (timeout != DEFAULT_TIMEOUT)) {
sprintf(tmpargs[j], "-T%f", timeout);
cmdargs[i++] = tmpargs[j++];
}
if (udp) {
if (multicast) {

}
if (ssm == 1)
sprintf(tmpargs[j], "-ms%d",
multicast);
else if (ssm == 0)
sprintf(tmpargs[j], "-ma%d",
multicast);
else
sprintf(tmpargs[j], "-m%d",
multicast);

if (mc_addr) {
sprintf(tmpargs[j], "-g%s",
mc_addr);
}
}
else
cmdargs[i++] = "-u";
}
if (do_jitter) {
cmdargs[i++] = "-j";
}
if (do_owd) {
cmdargs[i++] = "-o";
}
if (interval) {
sprintf(tmpargs[j], "-i%f", interval);
}
if (reverse) cmdargs[i++] = "-F";
if (format) {
if (format & XMITSTATS)
cmdargs[i++] = "-xfmitstats";
if (format & RUNNINGTOTAL)
cmdargs[i++] = "-frunningtotal";
if (format & NOPERCENTLOSS)
cmdargs[i++] = "-f-percentloss";
if (format & NODROPS)
cmdargs[i++] = "-f-drops";
if (format & NORETRANS)
cmdargs[i++] = "-f-retrans";
if (!(!(format & NORETRANS) && (format & NOCWND)))
cmdargs[i++] = "-f-cwnd";
if (format & PARSE)
cmdargs[i++] = "-fparse";
}
else {
cmdargs[i++] = "-f-rtt";

} if (traceroute)
cmdargs[i++] = "-xt";
if (datamss) {
    sprintf(tmpargs[j], "-M%d", datamss);
cmdargs[i++] = tmpargs[j++];
}
if (tos) {
    sprintf(tmpargs[j], "-c0x%Xt", tos);
cmdargs[i++] = tmpargs[j++];
}
if (nodelay)
cmdargs[i++] = "-D";
if (ipad_stride.ip32) {
    sprintf(tmpargs[j], "%s+%d", host3, ipad_stride.ip32);
cmdargs[i++] = tmpargs[j++];
} else
    cmdargs[i++] = host3;
    cmdargs[i] = NULL;
execvp(cmd, cmdargs);
if (errno == ENOENT) {
    strcpy(path, "/usr/local/sbin/");
strcat(path, cmd);
execv(path, cmdargs);
}
if (errno == ENOENT) {
    strcpy(path, "/usr/local/bin/");
strcat(path, cmd);
execv(path, cmdargs);
}
if (errno == ENOENT) {
    strcpy(path, "/usr/sbin/");
strcat(path, cmd);
execv(path, cmdargs);
}
if (errno == ENOENT) {
    strcpy(path, "/usr/etc/");
strcat(path, cmd);
execv(path, cmdargs);
}
if ((errno == ENOENT) && (getuid() != 0) && (geteuid() != 0)) {
    strcpy(path, "/");
    strcat(path, cmd);
    execv(path, cmdargs);
}
perror("execvp failed");
fprintf(stderr, "failed to execute %s\n", cmd);
fflush(stdout);
fflush(stderr);
if (!inetd)
    exit(0);
goto cleanup;
}
}

if (traceroute && clientserver) {
    char path[64];
    char *cmd;

    fflush(stdout);
    fflush(stderr);
    if (multicast) {
        cmd = "mtrace";
        #ifdef AF_INET6
        if (af == AF_INET6)
            cmd = "mtrace6";
        #endif
    } else {
        cmd = "traceroute";
        #ifdef AF_INET6
        if (af == AF_INET6)
            cmd = "traceroute6";
        #endif
    }
    if (client) {
        if ((pid = fork()) == (pid_t)-1)
            err("can't fork");
        if (pid != 0) {
            while (!((wait_pid = wait(&pidstat)) != pid)) {
                if (errno == ECHILD)
                    break;
                err("wait failed");
            }
        }
    }
    fflush(stdout);
else {
    signal(SIGINT, SIG_DFL);
    close(2);
    dup(1);
    i = 0;
    cmdargs[i++] = cmd;
    cmdargs[i++] = host;
    cmdargs[i] = NULL;
    execvp(cmd, cmdargs);
    if (errno == ENOENT) {
        strcpy(path, "/usr/local/sbin/");
        strcat(path, cmd);
        execv(path, cmdargs);
    }
    if (errno == ENOENT) {
        strcpy(path, "/usr/local/bin/");
        strcat(path, cmd);
        execv(path, cmdargs);
    }
    if (errno == ENOENT) {
        strcpy(path, "/usr/sbin/");
        strcat(path, cmd);
        execv(path, cmdargs);
    }
    if (errno == ENOENT) {
        strcpy(path, "/sbin/");
        strcat(path, cmd);
        execv(path, cmdargs);
    }
    if (errno == ENOENT) {
        strcpy(path, "/usr/etc/");
        strcat(path, cmd);
        execv(path, cmdargs);
    }
    perror("execvp failed");
    fprintf(stderr, "failed to execute %s\n", cmd);
    fflush(stderr);
    fflush(stdout);
    exit(0);
}
}

fprintf(stdout, \n);
if (intr) {
    intr = 0;
    fprintf(stderr, "\n");
    signal(SIGINT, sigint);
}
if (!skip_data) {
  for (stream_idx = 1; stream_idx <= nstream;
       stream_idx++)
    close(fd[stream_idx]);
}
if (client) {
  if ((pid = fork()) == (pid_t)-1)
    err("can't fork");
  if (pid == 0) {
    while (fgets(linebuf, sizeof(linebuf),
      stdin) && !intr) {
      if (strncmp(linebuf, "DONE", 4)
          == 0)
        exit(0);
      fputs(linebuf, stdout);
      fflush(stdout);
    }
    exit(0);
  }
  signal(SIGINT, SIG_IGN);
  while ((wait_pid = wait(&pidstat)) != pid) {
    if (wait_pid == (pid_t)-1) {
      if (errno == ECHILD)
        break;
      err("wait failed");
    }
  }
  exit(0);
} else {
  if (!inetd) {
    if ((pid = fork()) == (pid_t)-1)
      err("can't fork");
    if (pid != 0) {
      while ((wait_pid = wait(&pidstat)) != pid) {
        if (wait_pid == (pid_t)-1) {
          if (errno == ECHILD)
            break;
          err("wait failed");
        }
      }
      fprintf(stdout, "DONE\n");
      fflush(stdout);
      goto cleanup;
    }
  }
  close(2);
dup(1);

i = 0;

cmdargs[i++] = cmd;
cmdargs[i++] = host;
cmdargs[i] = NULL;
execvp(cmd, cmdargs);
if (errno == ENOENT) {
    strcpy(path, "/usr/local/sbin/");
    strcat(path, cmd);
    execv(path, cmdargs);
}
if (errno == ENOENT) {
    strcpy(path, "/usr/local/bin/");
    strcat(path, cmd);
    execv(path, cmdargs);
}
if (errno == ENOENT) {
    strcpy(path, "/sbin/");
    strcat(path, cmd);
    execv(path, cmdargs);
}
if (errno == ENOENT) {
    strcpy(path, "/usr/etc/");
    strcat(path, cmd);
    execv(path, cmdargs);
}

perror("execvp failed");
fprintf(stderr, "failed to execute %s\n", cmd);
fflush(stdout);
fflush(stderr);

if (!inetd)
    exit(0);
}
}

if (multicast) {
    struct sockaddr_in peer;
    socklen_t peerlen = sizeof(peer);
    struct sockaddr_in me;
    socklen_t melen = sizeof(me);
    #ifdef AF_INET6
    struct sockaddr_in6 peer6;
    struct sockaddr_in6 me6;
    #endif
    /*
     * The following code is intended to be run in a context where
     * we are connected to a support server using a private
     * connection.
     */
    /* The immediate peer is used when multicast is not set. */
    peer.sin_family = AF_INET;
    peer.sin_port = htons(20000);
    peer.sin_addr.s_addr = htonl(INADDR_ANY);
    /* The local address will be used when multicast is set. */
    me.sin_family = AF_INET;
    me.sin_port = htons(50000);
    me.sin_addr.s_addr = htonl(INADDR_ANY);
    /* Fill in the local address. */
    inet_pton(AF_INET, "127.0.0.1", &me.sin_addr);
    /* Fill in the peer address. */
    inet_pton(AF_INET, "127.0.0.1", &peer.sin_addr);
    /* Create a datagram socket. */
    sockfd = socket(AF_INET, SOCK_DGRAM, 0);
    if (sockfd < 0)
        perror("socket failed");
    if (sockfd < 0)
        return 0;
    /* Bind the socket to a local address. */
    if (bind(sockfd, (struct sockaddr *)&me, melen) < 0)
        
if (multicast) {
    struct sockaddr_in peer;
    socklen_t peerlen = sizeof(peer);
    struct sockaddr_in me;
    socklen_t melen = sizeof(me);
    #ifdef AF_INET6
    struct sockaddr_in6 peer6;
    struct sockaddr_in6 me6;
    #endif
    /*
     * The following code is intended to be run in a context where
     * we are connected to a support server using a private
     * connection.
     */
    /* The immediate peer is used when multicast is not set. */
    peer.sin_family = AF_INET;
    peer.sin_port = htons(20000);
    peer.sin_addr.s_addr = htonl(INADDR_ANY);
    /* The local address will be used when multicast is set. */
    me.sin_family = AF_INET;
    me.sin_port = htons(50000);
    me.sin_addr.s_addr = htonl(INADDR_ANY);
    /* Fill in the local address. */
    inet_pton(AF_INET, "127.0.0.1", &me.sin_addr);
    /* Fill in the peer address. */
    inet_pton(AF_INET, "127.0.0.1", &peer.sin_addr);
    /* Create a datagram socket. */
    sockfd = socket(AF_INET, SOCK_DGRAM, 0);
    if (sockfd < 0)
        perror("socket failed");
    if (sockfd < 0)
        return 0;
    /* Bind the socket to a local address. */
    if (bind(sockfd, (struct sockaddr *)&me, melen) < 0)
        

socklen_t peer6len = sizeof(peer6);
struct sockaddr_in6 me6;
socklen_t me6len = sizeof(me6);
#endif
if (mc_addr && !client) {
bzero(&hints, sizeof(hints));
hints.ai_flags = AI_NUMERICHOST;
if (udp)
hints.ai_socktype = SOCK_DGRAM;
else
hipts.ai_socktype = SOCK_STREAM;
mcres = NULL;
error_num = getaddrinfo(mc_addr, NULL, &hints, &mcres);
if (error_num) {
    sprintf(tmpbuf, "getaddrinfo: 
    "bad multicast IP address: 
    "%s: %s",
    mc_addr, gai_strerror(error_num));
    errno = EINVAL;
    err(tmpbuf);
}
if (mcres->ai_family == AF_INET) {
    struct sockaddr_in *group;
    struct in_addr ipv4_mcaddr;
    group = (struct sockaddr_in *)mcres->ai_addr;
    bcopy((char *)&(group->sin_addr),
          (char *)&ipv4_mcaddr,
          sizeof(struct in_addr));
    if (ssm) {
        if (((htonl(ipv4_mcaddr.s_addr)
            & 0xFF000000) !=
            (HI_MC_SSM << 24))) {
            sprintf(tmpbuf,
            "bad SSM multicast 
            "IP address: %s: 
            "use 232.x.y.z",
            mcgaddr);
            errno = EINVAL;
            err(tmpbuf);
        }
    }
    else {
        if (((htonl(ipv4_mcaddr.s_addr)
            & 0xFF000000) !=
            (HI_MC << 24))) {
            sprintf(tmpbuf,
            "bad ASM multicast 
            "IP address: %s: 
            "use 232.x.y.z",
            mcgaddr);
            errno = EINVAL;
            err(tmpbuf);
        }
    }
}
"IP address: %s: 
"use 231.x.y.z",
mcgaddr);
errno = EINVAL;
err(tmpbuf);
}
}
}
#endif
if (mcres->ai_family == AF_INET6) {
struct sockaddr_in6 *group;

group = (struct sockaddr_in6 *)mcres->ai_addr;
if (ssm) {
if ((bcmp((char *)&(group->sin6_addr),
(char *)&hi_mc6,HI_MC6_LEN - 1) != 0) ||
(group->sin6_addr.s6_addr[HI_MC6_LEN - 1] < 0x80)) {
    sprintf(tmpbuf,
"bad SSM multicast 
"IP address: %s: use 
"ff3e::[8-f]xxx:yyyy",
mcgaddr);
errno = EINVAL;
err(tmpbuf);
}
}
else {
if ((bcmp((char *)&(group->sin6_addr),
(char *)&hi_mc6_asm,HI_MC6_ASM_LEN) != 0)) {
    sprintf(tmpbuf,
"bad ASM multicast 
"IP address: %s: use 
"ff2e::wwww:xxxx:
"yyyy:zzzz",
mcgaddr);
errno = EINVAL;
err(tmpbuf);
}
}
#endif
mc_af = mcres->ai_family;
}

if (mc_af == AF_INET) {
if (getpeername(fd[0], (struct sockaddr *)&peer, &peerlen) < 0) {
    err("getpeername");
}
if (getsockname(fd[0], (struct sockaddr *)&me, &melen) < 0) {
    err("getsockname");
}
#ifdef AF_INET6
else if (mc_af == AF_INET6) {
    if (getpeername(fd[0], (struct sockaddr *)&peer6, &peer6len) < 0) {
        err("getpeername");
    }
    if (getsockname(fd[0], (struct sockaddr *)&me6, &me6len) < 0) {
        err("getsockname");
    }
}
#endif /* AF_INET6 */
else {
    err("unsupported AF");
}

if (!trans) {
    if ((mc_af == AF_INET) && !ssm) { /* IPv4 ASM */
        /* The multicast receiver must join the mc group */
        if (mc_addr) {
            struct sockaddr_in *user_group =
                (struct sockaddr_in *)mcres->ai_addr;
            bcopy((char *)&(user_group->sin_addr.s_addr),
                (char *)&mc_group.imr_multiaddr.s_addr,
                sizeof(struct in_addr));
        }
        else if (client && (irvers >= 50505)) {
            bcopy((char *)&me.sin_addr.s_addr,
                (char *)&mc_group.imr_multiaddr.s_addr,
                sizeof(struct in_addr));
        }
        else {
            bcopy((char *)&peer.sin_addr.s_addr,
                (char *)&mc_group.imr_multiaddr.s_addr,
                sizeof(struct in_addr));
        }
    }
    if (!mc_addr) {

```
mc_group.imr_multiaddr.s_addr &= htonl(0xFFFFFFFF);
mc_group.imr_multiaddr.s_addr |= htonl(HI_MC << 24);
}
if (setsockopt(fd[1], IPPROTO_IP, IP_ADD_MEMBERSHIP,
    (void *)&mc_group, sizeof(mc_group)) < 0)
    err("setsockopt: IP_ADD_MEMBERSHIP");
if (brief <= 0) {
    inet_ntop(mc_af, &peer.sin_addr.s_addr,
        multsrc, sizeof(multsrc));
    inet_ntop(mc_af, &mc_group.imr_multiaddr,
        multaddr, sizeof(multaddr));
    if (format & PARSE) {
        fprintf(stdout,
"nuttcp%s%s: multicast_source=%s multicast_group=%s ssm=0\n",
    trans?-"t":"-r", ident,
    multsrc, multaddr);
    } else {
        fprintf(stdout,
"nuttcp%s%s: receive from multicast source %s\n",
    trans?-"t":"-r", ident,
    multsrc);
        fprintf(stdout,
"nuttcp%s%s: using asm on multicast group %s\n",
    trans?-"t":"-r", ident,
    multaddr);
    }
}
#elseif AF_INET6
    else if ((mc_af == AF_INET6) && !ssm) {
        /* The multicast receiver must join the mc group */
        if (mc_addr) {
            struct sockaddr_in6 *user_group;
            user_group = (struct sockaddr_in6 *)mcres->ai_addr;
            bcopy((char *)&(user_group->sin6_addr),
                (char *)&mc6_group.ipv6mr_multiaddr,
                sizeof(struct in6_addr));
        }
        else if (client) {
            bcopy((char *)&me6.sin6_addr,
                (char *)&mc6_group.ipv6mr_multiaddr,
                sizeof(struct in6_addr));
        }
    }
#endif AF_INET6
} else {
    bcopy((char *)&peer6.sin6_addr,
          (char *)&mc6_group.ipv6mr_multiaddr,
          sizeof(struct in6_addr));
}

if (!mc_addr) {
    bcopy((char *)&hi_mc6_asm,
          (char *)&mc6_group.ipv6mr_multiaddr,
          HI_MC6_ASM_LEN);
}

if (setsockopt(fd[1], IPPROTO_IPV6, IPV6_JOIN_GROUP,
              (void *)&mc6_group,
              sizeof(mc6_group)) < 0)
    err("setsockopt: IPV6_JOIN_GROUP");
if (brief <= 0) {
    inet_ntop(mc_af, &peer6.sin6_addr,
              multsrc, sizeof(multsrc));
    inet_ntop(mc_af, &mc6_group.ipv6mr_multiaddr,
              multaddr, sizeof(multaddr));

    if (format & PARSE) {
        fprintf(stdout,
"nuttcp%s%s: multicast_source=%s multicast_group=%s ssm=0\n",
        trans?"-t":"-r", ident,
        multsrc, multaddr);
    } else {
        fprintf(stdout,
"nuttcp%s%s: receive from multicast source %s\n",
        trans?"-t":"-r", ident,
        multsrc);
        fprintf(stdout,
"nuttcp%s%s: using asm on multicast group %s\n",
        trans?"-t":"-r", ident,
        multaddr);
    }
}
#endif /* AF_INET6 */
#endif MCAST_JOIN_SOURCE_GROUP
else if ((mc_af == AF_INET) && ssm) /* IPv4 SSM */
/* multicast receiver joins the mc source group */
union sockaddr_union group_ipaddr;
struct sockaddr_in *group;
struct sockaddr_in *source;
group = &group_ipaddr.sin;
source =
        (struct sockaddr_in *)&group_source_req.gsr_source;
group_source_req.gsr_interface = 0; /* any interface */
if (mc_addr) {
    struct sockaddr_in *user_group;

    user_group =
        (struct sockaddr_in *)mcres->ai_addr;
bcopy((char *)user_group, (char *)group,
            sizeof(struct sockaddr_in));
} else if (client) {
    bcopy((char *)&me, (char *)group,
        sizeof(struct sockaddr_in));
} else {
    bcopy((char *)&peer, (char *)group,
        sizeof(struct sockaddr_in));
}

bcopy((char *)&peer, (char *)source,
        sizeof(struct sockaddr_in));
if (!mc_addr) {
    group->sin_addr.s_addr &= htonl(0xFFFFFF);
    group->sin_addr.s_addr |=
        htonl(HI_MC_SSM << 24);
}
group_source_req.gsr_group = group_ipaddr.ss;
if (setsockopt(fd[1], IPPROTO_IP,
               MCAST_JOIN_SOURCE_GROUP,
               &group_source_req,
               sizeof(group_source_req)) < 0)
    err("setsockopt: MCAST_JOIN_SOURCE_GROUP");
if (brief <= 0) {
    inet_ntop(mc_af, &source->sin_addr.s_addr,
              multsrc, sizeof(multsrc));
    inet_ntop(mc_af, &group->sin_addr.s_addr,
              multaddr, sizeof(multaddr));
    if (format & PARSE) {
        fprintf(stdout,
            "nuttcp%s%s: multicast_source=%s multicast_group=%s ssm=1\n",
            trans?"-t"":"-r", ident,
            multsrc, multaddr);
    } else {
        fprintf(stdout,
            "nuttcp%s%s: receive from multicast source %s\n",
            trans?"-t"":"-r", ident,
            multsrc);
fprintf(stdout, "nuttcp%s%s: using ssm on multicast group %s\n", trans?"-t":"-r", ident, multaddr);
}
}
}
#endif

#ifdef AF_INET6
    else if ((mc_af == AF_INET6) && ssm) { /* IPv6 SSM */
    /* multicast receiver joins the mc source group */
    struct sockaddr_in6 *group;
    struct sockaddr_in6 *source;

    group =
        (struct sockaddr_in6 *)&group_source_req.gsr_group;
    source =
        (struct sockaddr_in6 *)&group_source_req.gsr_source;
    group_source_req.gsr_interface = 0; /* any interface */
    if (mc_addr) {
        struct sockaddr_in6 *user_group;

        user_group =
            (struct sockaddr_in6 *)mcres->ai_addr;
        bcopy((char *)user_group, (char *)group,
            sizeof(struct sockaddr_in6));
    } else if (client) {
        bcopy((char *)me6, (char *)group,
            sizeof(struct sockaddr_in6));
    } else {
        bcopy((char *)peer6, (char *)group,
            sizeof(struct sockaddr_in6));
    }
    bcopy((char *)&peer6, (char *)source,
        sizeof(struct sockaddr_in6));
    if (!mc_addr) {
        bcopy((char *)&hi_mc6,
            (char *)&group->sin6_addr,
            HI_MC6_LEN);
    }
    if (setsockopt(fd[1], IPPROTO_IPV6,
        MCAST_JOIN_SOURCE_GROUP,
        &group_source_req,
        sizeof(group_source_req)) < 0)
        err("setsockopt: MCAST_JOIN_SOURCE_GROUP");
    if (brief <= 0) {
        inet_ntop(mc_af, &source->sin6_addr.s6_addr,
multsrc, sizeof(multsrc));
inet_ntop(mc_af, &group->sin6_addr.s6_addr,
    multaddr, sizeof(multaddr));
if (format & PARSE) {
    fprintf(stdout,
        "nuttcp%s%s: multicast_source=%s multicast_group=%s ssm=1\n",
        trans?"-t":"-r", ident,
        multsrc, multaddr);
    } else {
        fprintf(stderr,
            "nuttcp%s%s: receive from multicast source %s\n",
            trans?"-t":"-r", ident,
            multsrc);
        fprintf(stderr,
            "nuttcp%s%s: using ssm on multicast group %s\n",
            trans?"-t":"-r", ident,
            multaddr);
    }
} #endif /* AF_INET6 */
#else /* MCAST_JOIN_SOURCE_GROUP */
    else { err("unsupported AF");
    }
#else /* trans */
    if (mc_af == AF_INET) {
        bcopy((char *)&sinhim[1].sin_addr.s_addr,
            (char *)&save_sinhim.sin_addr.s_addr,
            sizeof(struct in_addr));
    } #ifdef AF_INET6
        else if (mc_af == AF_INET6) {
            bcopy((char *)&sinhim6[1], (char *)&save_sinhim6,
                sizeof(struct sockaddr_in6));
        } #endif
    if ((mc_af == AF_INET) && !ssm) { /* IPv4 ASM */
        /* The multicast transmitter just sends to mc group */
        if (mc_addr) {
            struct sockaddr_in *user_group;

            user_group =
                (struct sockaddr_in *)mcres->ai_addr;
            bcopy((char *)&user_group->sin_addr.s_addr,
                (char *)&sinhim[1].sin_addr.s_addr,
                sizeof(struct sockaddr_in6));
sizeof(struct in_addr));
}
else if (client || (irvers < 50505)) {
    bcopy((char *)&me.sin_addr.s_addr,
           (char *)&sinhim[1].sin_addr.s_addr,
           sizeof(struct in_addr));
}
else {
    bcopy((char *)&peer.sin_addr.s_addr,
           (char *)&sinhim[1].sin_addr.s_addr,
           sizeof(struct in_addr));
}
if (!mc_addr) {
    sinhim[1].sin_addr.s_addr &= htonl(0xFFFFFFFF);
    sinhim[1].sin_addr.s_addr |= htonl(HI_MC << 24);
}
if (setsockopt(fd[1], IPPROTO_IP, IP_MULTICAST_TTL,
               (void *)&multicast,
               sizeof(multicast)) < 0)
    err("setsockopt: IP_MULTICAST_TTL");
if (brief <= 0) {
    inet_ntop(mc_af, &me.sin_addr.s_addr,
              multsrc, sizeof(multsrc));
    inet_ntop(mc_af, &sinhim[1].sin_addr.s_addr,
              multaddr, sizeof(multaddr));
    if (format & PARSE) {
        fprintf(stdout,
                "nuttcp%s%s: multicast_source=%s multicast_group=%s ssm=0\n",
                trans?"-t":"-r", ident,
                multsrc, multaddr);
    } else {
        fprintf(stdout,
                "nuttcp%s%s: sending from multicast source %s\n",
                trans?"-t":"-r", ident,
                multsrc);
        fprintf(stdout,
                "nuttcp%s%s: using asm on multicast group %s\n",
                trans?"-t":"-r", ident,
                multaddr);
    }
}
#endif

#else if ((mc_af == AF_INET6) && !ssm) { /* IPv6 ASM */
  /* The multicast transmitter just sends to mc group */
#ifdef AF_INET6
  else if ((mc_af == AF_INET6) && !ssm) { /* IPv6 ASM */
/* The multicast transmitter just sends to mc group */
if (mc_addr) { 
    struct sockaddr_in6 *user_group;
user_group =
(struct sockaddr_in6 *)mcres->ai_addr;
bcopy((char *)&(user_group->sin6_addr),
(char *)&sinhim6[1].sin6_addr,
sizeof(struct in6_addr));
}
else if (client) {
bcopy((char *)&me6.sin6_addr,
(char *)&sinhim6[1].sin6_addr,
sizeof(struct in6_addr));
}
else {
bcopy((char *)&peer6.sin6_addr,
(char *)&sinhim6[1].sin6_addr,
sizeof(struct in6_addr));
}
if (!mc_addr) {
bcopy((char *)&hi_mc6_asm,
(char *)&sinhim6[1].sin6_addr,
HI_MC6_ASM_LEN);
}
if (setsockopt(fd[1], IPPROTO_IPV6, IPV6_MULTICAST_HOPS,
(void *)&multicast,
sizeof(multicast)) < 0)
err("setsockopt: IPV6_MULTICAST_HOPS");
if (brief <= 0) {
ninet_ntop(mc_af, &me6.sin6_addr.s6_addr,
multsrc, sizeof(multsrc));
ninet_ntop(mc_af, &sinhim6[1].sin6_addr.s6_addr,
multaddr, sizeof(multaddr));
if (format & PARSE) {
fprintf(stdout,
"nuttcp%s%s: multicast_source=%s multicast_group=%s ssm=0\n",
trans?"-t":"-r", ident,
multsrc, multaddr);
}
else {
fprintf(stdout,
"nuttcp%s%s: sending from multicast source %s\n",
trans?"-t":"-r", ident,
multsrc);
fprintf(stdout,
"nuttcp%s%s: using asm on multicast group %s\n",
trans?"-t":"-r", ident,
multaddr);
}
#endif /* AF_INET6 */
#else if ((mc_af == AF_INET) && ssm) { /* IPv4 SSM */
/* The multicast transmitter just sends to mc group */
if (mc_addr) {
    struct sockaddr_in *user_group;
    user_group = 
        (struct sockaddr_in *)mcres->ai_addr;
    bcopy((char *)user_group->sin_addr.s_addr,
        (char *)&sinhim[1].sin_addr.s_addr,
        sizeof(struct in_addr));
} else if (client) {
    bcopy((char *)&me.sin_addr.s_addr,
        (char *)&sinhim[1].sin_addr.s_addr,
        sizeof(struct in_addr));
} else {
    bcopy((char *)&peer.sin_addr.s_addr,
        (char *)&sinhim[1].sin_addr.s_addr,
        sizeof(struct in_addr));
} if (!mc_addr) {
    sinhim[1].sin_addr.s_addr &= htonl(0xFFFFFF);
    sinhim[1].sin_addr.s_addr |=
         htonl(HI_MC_SSM << 24);
} if (setsockopt(fd[1], IPPROTO_IP, IP_MULTICAST_TTL,
        (void *)&multicast,
        sizeof(multicast)) < 0)
    err("setsockopt: IP_MULTICAST_TTL.");
if (brief <= 0) {
    inet_ntop(mc_af, &me.sin_addr.s_addr,
        multsrc, sizeof(multsrc));
    inet_ntop(mc_af, &sinhim[1].sin_addr.s_addr,
        multaddr, sizeof(multaddr));
    if (format & PARSE) {
        fprintf(stdout,
            "nuttcp%s%s: multicast_source=%s multicast_group=%s ssm=1\n",
            trans?"-t":"-r", ident,
            multsrc, multaddr);
    } else {
        fprintf(stdout,
            "nuttcp%s%s: sending from multicast source %s\n",
            trans?"-t":"-r", ident,
multsrc);
fprintf(stdout,
"nuttcp%s%s: using ssm on multicast group %s\n",
trans?"-t":"-r", ident,
multaddr);
}
}
}
#endif

else if ((mc_af == AF_INET6) && ssm) { /* IPv6 SSM */
/* The multicast transmitter just sends to mc group */
if (mc_addr) {
    struct sockaddr_in6 *user_group = 
    (struct sockaddr_in6 *)mcres->ai_addr;
    bcopy((char *)&(user_group->sin6_addr),
        (char *)&sinhim6[1].sin6_addr,
        sizeof(struct in6_addr));
}
else if (client) {
    bcopy((char *)&me6.sin6_addr, 
        (char *)&sinhim6[1].sin6_addr,
        sizeof(struct in6_addr));
}
else {
    bcopy((char *)&peer6.sin6_addr, 
        (char *)&sinhim6[1].sin6_addr,
        sizeof(struct in6_addr));
}
if (!mc_addr) {
    bcopy((char *)&hi_mc6,
        (char *)&sinhim6[1].sin6_addr,
        HI_MC6_LEN);
}
if (setsockopt(fd[1], IPPROTO_IPV6, IPV6_MULTICAST_HOPS,
    (void *)&multicast,
    sizeof(multicast)) < 0)
    err("setsockopt: IPV6_MULTICAST_HOPS");
if (brief <= 0) {
    inet_ntop(mc_af, &me6.sin6_addr.s6_addr,
        multsrc, sizeof(multsrc));
    inet_ntop(mc_af, &sinhim6[1].sin6_addr.s6_addr,
        multaddr, sizeof(multaddr));
    if (format & PARSE) {
        fprintf(stdout,
            "nuttcp%s%s: multicast_source=%s multicast_group=%s ssm=1\n",
            trans?"-t":"-r", ident,
multsrc, multaddr);
}
else {
    fprintf(stdout,
        "nuttcp%s%s: sending from multicast source %s\n",
        trans?"-t":"-r", ident,
        multsrc);
    fprintf(stdout,
        "nuttcp%s%s: using ssm on multicast group %s\n",
        trans?"-t":"-r", ident,
        multaddr);
}
}
#endif /* AF_INET */
#endif /* MCAST_JOIN_SOURCE_GROUP */
else {
    err("unsupported AF");
}
}

if (mcres) {
    freeaddrinfo(mcres);
    mcres = NULL;
}
}

if (trans && timeout) {
    itimer.it_value.tv_sec = timeout;
    itimer.it_value.tv_usec =
        (timeout - itimer.it_value.tv_sec)*1000000;
    itimer.it_interval.tv_sec = 0;
    itimer.it_interval.tv_usec = 0;
    signal(SIGALRM, sigalarm);
    if (!udp)
        setitimer(ITIMER_REAL, &itimer, 0);
}
else if (!trans && interval) {
    sigact.sa_handler = &sigalarm;
    sigemptyset(&sigact.sa_mask);
    sigact.sa_flags = SA_RESTART;
    sigaction(SIGALRM, &sigact, 0);
    itimer.it_value.tv_sec = interval;
    itimer.it_value.tv_usec =
        (interval - itimer.it_value.tv_sec)*1000000;
    itimer.it_interval.tv_sec = interval;
    itimer.it_interval.tv_usec =
        (interval - itimer.it_interval.tv_sec)*1000000;
setitimer(ITIMER_REAL, &itimer, 0);
if (clientserver) {
    chk_idle_data = (interval < idle_data_min) ?
    idle_data_min : interval;
    chk_idle_data = (chk_idle_data > idle_data_max) ?
    idle_data_max : chk_idle_data;
}
else if (clientserver && !trans) {
    sigact.sa_handler = &sigalarm;
    sigemptyset(&sigact.sa_mask);
    sigact.sa_flags = SA_RESTART;
    sigaction(SIGALRM, &sigact, 0);
    if (timeout) {
        chk_idle_data = timeout/2;
    } else {
        if (rate != MAXRATE)
            chk_idle_data = (double)(nbuf*buflen)
            /rate/125/2;
        else
            chk_idle_data = default_idle_data;
    }
    chk_idle_data = (chk_idle_data < idle_data_min) ?
    idle_data_min : chk_idle_data;
    chk_idle_data = (chk_idle_data > idle_data_max) ?
    idle_data_max : chk_idle_data;
    itimer.it_value.tv_sec = chk_idle_data;
    itimer.it_value.tv_usec =
    (chk_idle_data - itimer.it_value.tv_sec) *
    1000000;
    itimer.it_interval.tv_sec = chk_idle_data;
    itimer.it_interval.tv_usec =
    (chk_idle_data - itimer.it_interval.tv_sec) *
    1000000;
    settimer(ITIMER_REAL, &itimer, 0);
}

if (interval && clientserver && client && trans)
    do_poll = 1;

if (irate) {
    pkt_time = (double)buflen/rate/125;
    irate_pk_usec = pkt_time*1000000;
    irate_pk_nsec = (pkt_time*1000000 - irate_pk_usec)*1000;
    pkt_time_ms = pkt_time*1000;
}
#ifdef DEBUG
if (irate && (format & DEBUGIRATE)) {
    debugout = fopen(DEBUGOUTPUT, "a+");
    if (debugout)
        fprintf(debugout, "BEGIN nuttcp debug output\n");
} #endif
prep_timer();
errno = 0;
stream_idx = 0;
ocorrection = 0;
correction = 0.0;
if (do_poll) {
    long flags;
    pollfds[0].fd = fileno(ctlconn);
pollfds[0].events = POLLIN | POLLPRI;
pollfds[0].revents = 0;
    for ( i = 1; i <= nstream; i++ ) {
        pollfds[i].fd = fd[i];
pollfds[i].events = POLLOUT;
pollfds[i].revents = 0;
    }
    flags = fcntl(0, F_GETFL, 0);
    if (flags < 0)
        err("fcntl 1");
    flags |= O_NONBLOCK;
    if (fcntl(0, F_SETFL, flags) < 0)
        err("fcntl 2");
}
if (sinkmode) {
    register int cnt = 0;
    if (trans) {
        if (udp) {
            strcpy(buf, "BOD0");
            if (multicast) {
                bcopy((char *)&sinhim[1].sin_addr.s_addr,
                    (char *)&save_mc.sin_addr.s_addr,
                    sizeof(struct in_addr));
                bcopy((char *)&save_sinhim.sin_addr.s_addr,
                    (char *)&sinhim[1].sin_addr.s_addr,
                    sizeof(struct in_addr));
            }
            (void)Nwrite( fd[stream_idx + 1], buf, 4 ); /* rcvr start */
            if (two_bod) {
                usleep(250000);
                strcpy(buf, "BOD1");
                (void)Nwrite( fd[stream_idx + 1], buf, 4 ); /* rcvr start */
            }
        }
    }
}
if (multicast) {
    bcopy((char *)&save_mc.sin_addr.s_addr,
         (char *)&sinhim[1].sin_addr.s_addr,
         sizeof(struct in_addr));
}
if (timeout)
    settimer(ITIMER_REAL, &timer, 0);
    prep_timer();
}
bzero(buf + 8, 8); /* zero out timestamp */
nbytes += buflen;
if (do_poll && (format & DEBUGPOLL)) {
    fprintf(stdout, "do_poll is set\n");
    fflush(stdout);
}
if (udplossinfo)
    bcopy(&nbytes, buf + 24, 8);
if (!(udp && !(format & NORETRANS) &&
    (nstream == 1) &&
    ((retransinfo == 1) ||
      (retransinfo >= 2) &&
      (force_retrans >= retransinfo)))) {
    uint32_t tmp;
    if (client) {
        if (trans || send_retrans)
            do_retrans = 1;
        if (trans)
            send_retrans = 1;
        if (!udp)
            bzero(buf + 24, 8);
    } else {
        if (retransinfo == 1)
            tmp = 0x5254524Eu; /* "RTRN" */
        else
            tmp = 0x48525452u; /* "HRTR" */
        bcopy(&nretrans[1], buf + 24, 4);
        bcopy(&tmp, buf + 28, 4);
        do_retrans = 0;
    }
} else {
    send_retrans = 0;
    do_retrans = 0;
    if (!udp)
        bzero(buf + 24, 8);
}
if (!udp && !(format & NOCWND) &&
    (nstream == 1) && cwndinfo) {
if (client) {
if (trans || send_cwnd)
    do_cwnd = 1;
if (trans)
    send_cwnd = 1;
} else {
do_cwnd = 0;
}
else {
send_cwnd = 0;
do_cwnd = 0;
}
if (nbuf == INT_MAX)
nbuf = ULLONG_MAX;
if (!client) {
    /* check if client went away */
pollfds[0].fd = fileno(ctlconn);
save_events = pollfds[0].events;
pollfds[0].events = POLLIN | POLLPRI;
pollfds[0].revents = 0;
if ((poll(pollfds, 1, 0) > 0) &&
    (pollfds[0].revents & (POLLIN | POLLPRI))) {
    nbuf = 0;
intr = 1;
}
pollfds[0].events = save_events;
}
while (nbuf-- && ((cnt = Nwrite(fd[stream_idx + 1], buf, buflen)) == buflen) && !intr) {
if (clientserver && ((nbuf & 0x3FF) == 0)) {
    if (!client) {
        /* check if client went away */
pollfds[0].fd = fileno(ctlconn);
save_events = pollfds[0].events;
pollfds[0].events = POLLIN | POLLPRI;
pollfds[0].revents = 0;
if ((poll(pollfds, 1, 0) > 0) &&
    (pollfds[0].revents &
        (POLLIN | POLLPRI)))
intr = 1;
pollfds[0].events = save_events;
    } else if (handle_urg) {
        /* check for urgent TCP data
        * on control connection */

pollfds[0].fd = fileno(ctlconn);
save_events = pollfds[0].events;
pollfds[0].events = POLLPRI;
pollfds[0].revents = 0;
if ((poll(pollfds, 1, 0) > 0)
   && (pollfds[0].revents & POLLPRI)) {
    tmpbuf[0] = '0';
    if ((recv(fd[0], tmpbuf, 1,
         MSG_OOB) == -1) &&
        (errno == EINVAL))
        recv(fd[0], tmpbuf, 1, 0);
    if (tmpbuf[0] == 'A')
        intr = 1;
    else
        err("recv urgent data");
}
pollfds[0].events = save_events;
}
}
nbytes += buflen;
cnt = 0;
if (udplossinfo)
    bcopy(&nbytes, buf + 24, 8);
if (send_retrans) {
    nretrans[1] = get_retrans(fd[stream_idx + 1],
                               &tcpinf);
    nretrans[1] -= iretrans[1];
    bcopy(&nretrans[1], buf + 24, 4);
}
#ifdef defined(linux)
    if (send_cwnd) {
        cwnd[1] = tcpinf.tcpinfo_snd_cwnd *datamss/1024;
        bcopy(&cwnd[1], buf + 28, 4);
    }
#endif
stream_idx++;
stream_idx = stream_idx % nstream;
if (do_poll &&
    ((pollst = poll(pollfds, nstream + 1, 0))
     > 0) &&
    (pollfds[0].revents & (POLLPRI | POLLIN)) && !intr) {
    /* check for server output */
    #ifdef DEBUG
        if (format & DEBUGPOLL) {
            /*
            */
    #endif
    if (format & DEBUGPOLL) {
}
fprintf(stdout, "got something %d: ", i);
    for ( i = 0; i < nstream + 1; i++ ) {
        if (pollfds[i].revents & POLLIN) {
            fprintf(stdout, " rfd %d",
                pollfds[i].fd);
        }
        if (pollfds[i].revents & POLLPRI) {
            fprintf(stdout, " pfd %d",
                pollfds[i].fd);
        }
        if (pollfds[i].revents & POLLOUT) {
            fprintf(stdout, " wfd %d",
                pollfds[i].fd);
        }
        if (pollfds[i].revents & POLLERR) {
            fprintf(stdout, " xfd %d",
                pollfds[i].fd);
        }
        if (pollfds[i].revents & POLLHUP) {
            fprintf(stdout, " hfd %d",
                pollfds[i].fd);
        }
        if (pollfds[i].revents & POLLNVAL) {
            fprintf(stdout, " nfd %d",
                pollfds[i].fd);
        }
    }
    fprintf(stdout, 
"\n");
    fflush(stdout);
}
if (format & DEBUGPOLL) {
    fprintf(stdout, "got server output: %s", intervalbuf);
    fflush(stdout);
} #endif
while (fgets(intervalbuf, sizeof(intervalbuf), stdin)) {
    if (strncmp(intervalbuf, "DONE", 4) == 0) {
        if (format & DEBUGPOLL) {
            fprintf(stdout, "got DONE\n");
            fflush(stdout);
        }
        got_done = 1;
        intr = 1;
        do_poll = 0;
        break;
    } else if (strncmp(intervalbuf, "nuttcp-r", 8) == 0) {

if ((brief <= 0) ||
    strstr(intervalbuf, 
    "Warning") ||
    strstr(intervalbuf, 
    "Error") ||
    strstr(intervalbuf, 
    "Debug")) {
if (*ident) {
    fputs("nuttcp-r", stdout);
    fputs(ident, stdout);
    fputs(intervalbuf + 8, stdout);
}
else
    fputs(intervalbuf, stdout);
    fflush(stdout);
}
else {
if (*ident)
    fprintf(stdout, "%s: ", ident + 1);
    cp1 = intervalbuf +
    strlen(intervalbuf) - 1;
    /* ugly kludge to get rid of
    * server "0 retrans" info at
    * start of transfer for small
    * interval reports -
    * hopefully it won't be
    * necessary to also check
    * at end of transfer when
    * processing server output */
    if (!got_0retrans) {
        if (format & PARSE) {
            if ((cp2 = strstr( 
                intervalbuf, 
                "host-"
                "retrans")))
                *(cp2 - 1) = '\0';
            else if ((cp2 = strstr( 
                intervalbuf, 
                "retrans")))
                *(cp2 - 1) = '\0';
        }
        else if (strstr(intervalbuf, 
                "KB-cwnd") {
if (strstr(intervalbuf, "host-retrans"))
  *(cp1 - 34) = '\0';
else if (strstr(intervalbuf, "retrans"))
  *(cp1 - 29) = '\0';
else {
  *cp1 = '\0';
  got_0retrans = 1;
}
}
} else {
if (strstr(intervalbuf, "host-retrans"))
  *(cp1 - 19) = '\0';
else if (strstr(intervalbuf, "retrans"))
  *(cp1 - 14) = '\0';
else {
  *cp1 = '\0';
  got_0retrans = 1;
}
}
else {
  *cp1 = '\0';
}
if (do_retrans) {
  cp1 = strstr(intervalbuf, "Mbps") + 4;
  ch = '\0';
  if (cp1) {
    if (format & PARSE) {
      cp1 = strchr(cp1, '.');
      if (cp1)
        cp1 += 5;
    }
    ch = *cp1;
    if (ch)
      *cp1 = '\0';
  }
  fputs(intervalbuf, stdout);
  if (do_retrans && sinkmode) {
    nretrans[1] =
  }
get_retrans(fd[stream_idx + 1],
   &tcpinf);
   nretrans[1] -= iretrans[1];
   if (format & PARSE)
   fprintf(stdout, P_RETRANS_FMT_INTERVAL,
   (retransinfo == 1) ? "" : "host-",
   (nretrans[1] - pretrans));
   else
   fprintf(stdout, RETRANS_FMT_INTERVAL,
   (nretrans[1] - pretrans),
   (retransinfo == 1) ? "" : "host-" ) ;
   pretrans = nretrans[1];
}
#if defined(linux)
if (do_cwnd && sinkmode) {
   cwnd[1] =
   tcpinf.tcpinfo_snd_cwnd *datamss/1024;
   if (format & PARSE)
   fprintf(stdout, P_CWND_FMT_INTERVAL,
   cwnd[1]);
   else
   fprintf(stdout, CWND_FMT_INTERVAL,
   cwnd[1]);
}
#endif
if (do_retrans && cp1 && ch) {
   *cp1 = ch;
   fputs(cp1, stdout);
}
fprintf(stdout, "\n");
fflush(stdout);
}
}
if (do_poll && (pollst < 0)) {
if (errno == EINTR)
break;
err("poll");
nbytes -= buflen;
if (intr && (cnt > 0))
nbytes += cnt;
if (udp) {
if (multicast)
   bcopy((char *)&save_sinhim.sin_addr.s_addr,
       (char *)&sinhim[1].sin_addr.s_addr,
       sizeof(struct in_addr));
strcpy(buf, "EOD0");
(void)Nwrite(fd[stream_idx + 1], buf, 4); /* rcvr end */
} 
else {
first_read = 1;
first_jitter = 1;
first_jitteri = 1;
nowd = 0;
nowdi = 0;
owd_min = 1000000.0;
owd_mini = 1000000.0;
owd_max = -1000000.0;
owd_maxi = -1000000.0;
owd_avg = 0.0;
owd_avgi = 0.0;
need_swap = 0;
bzero(buf + 24, 8);
if (udp) {
   nbytesc = 0;
got_eod0 = 0;
while (((cnt=Nread(fd[stream_idx + 1], buf, buflen)) > 0) && !intr) {
   if (cnt <= 4) {
      if (strncmp(buf, "EOD0", 4) == 0) {
         get_timeofday(&time_eod0,
            (struct timezone *)0);
got_eod0 = 1;
done = 1;
continue;
}
   if (strncmp(buf, "EOD", 3) == 0) {
      ocorrection = buf[3] - '0';
got_timeofday(&time_eod,
            (struct timezone *)0);
done = 1;
break; /* "EOF" */
   }
   if (strncmp(buf, "BOD", 3) == 0) {
      ocorrection = buf[3] - '0';
got_timeofday(&time_eod,
            (struct timezone *)0);
done = 1;
break; /* "EOF" */
   }
   if (strncmp(buf, "C0D", 3) == 0) {
      ocorrection = buf[3] - '0';
got_timeofday(&time_eod,
            (struct timezone *)0);
done = 1;
if (two_bod &&
(buf[3] == '0'))
    continue;
if (interval)
setitimer(ITIMER_REAL,
    &itimer, 0);
    prep_timer();
got_begin = 1;
    continue;
}
    break;
}
else if (!got_begin) {
if (interval)
setitimer(ITIMER_REAL,
    &itimer, 0);
    prep_timer();
got_begin = 1;
}
else if (got_eod0) {
    /* got data after EOD0, so
     * extend EOD0 time */
    get_timeofday(&time_eod0,
        (struct timezone *)(0);
    }
if (!got_begin)
    continue;
    nbytes += cnt;
    cnt = 0;
/* problematic if the interval timer
 * goes off right here */
if (udplossinfo) {
    if (first_read) {
        bcopy(buf + 24, &ntbytesc,
            8);
        first_read = 0;
        if (ntbytesc > 0x100000000ull)
            need_swap = 1;
        if (!need_swap) {
            stream_idx++;
            stream_idx =
                stream_idx
                % nstream;
            continue;
        }
    }
if (!need_swap)
        bcopy(buf + 24, &ntbytesc,
8);

else {
    cp1 = (char *)&ntbytesc;
    cp2 = buf + 31;
    for ( i = 0; i < 8; i++ )
        *cp1++ = *cp2--;
    }
}
if (do_jitter) {
    if (first_jitter) {
        get_timeofday(&timepkr,
            (struct timezone *)0);
        timepkri = timepkr;
        first_jitter = 0;
        first_jitteri = 0;
        ntbytescp = ntbytesc;
        ntbytescpi = ntbytesc;
        jitter = 0.0;
        jitteri = 0.0;
        njitter = 0;
        njitteri = 0;
        jitter_min = 1000000.0;
        jitter_mini = 1000000.0;
        jitter_max = -1000000.0;
        jitter_maxi = -1000000.0;
        jitter_avg = 0.0;
        jitter_avgi = 0.0;
        #ifdef DEBUG
        if (clientserver &&
            client &&
            (format & DEBUGJITTER))
            fprintf(stdout,
                "pkt_time_ms"=
                " = %6.3f ms
",
                pkt_time_ms);
        #endif
        stream_idx++;
        stream_idx =
        stream_idx % nstream;
    }
    continue;
}
/* formula for jitter is from
 * RFC1889 - note synchronized
 * clocks are not required since
 * source packet delta time is
 * known (pkt_time_ms)
 */
* D(i,j)=(Rj-Ri)-(Sj-Si)
* =(Rj-Sj)-(Ri-Si)
* J=J+|D(i-1,i)|/16

* for nuttcp we just use the raw
* absolute value of the delta
* J=|D(i-1,i)|

if (!do_owd) {
    get_timeofday(&timerx,
    (struct timezone *)0);
}
if (do_jitter & JITTER_IGNORE_OOO) {
    /* first check that packet
    * is next in sequence */
    if (udplossinfo &&
        (ntbytescp + buflen)
    != ntbytesc) {
        ntbytescp = ntbytesc;
        ntbytescpi = ntbytesc;
        timepkr = timerx;
        timepkri = timerx;
        stream_idx++;
        stream_idx =
        stream_idx % nstream;
        continue;
    }
}

tvsub( &timed, &timerx, &timepkr );
pkt_delta =
timed.tv_sec*1000
+ ((double)timed.tv_usec)
/ 1000;
pkt_delta -= pkt_time_ms;
if (pkt_delta >= 0)
jitter = pkt_delta;
else
    jitter = -pkt_delta;
jitter ++;
if (jitter < jitter_min)
jitter_min = jitter;
if (jitter > jitter_max)
jitter_max = jitter;
jitter_avg += jitter;
#endif DEBUG
if (clientserver && client && (format & DEBUGJITTER))
fprintf(stdout,
"pkt_delta = %6.3f ms, ",
"jitter = %9.6f ms\n",
pkt_delta, jitter);
#endif

timepkr = timerx;
timebytescp = timebytesc;
if (!interval) {
    stream_idx++;
    stream_idx = stream_idx % nstream;
    continue;
}
if (first_jitteri) {
    gettimeofday(
    &timepkri,
     (struct timezone *)0);
    first_jitteri = 0;
    timebytescp = timebytesc;
    jitteri = 0.0;
    njitteri = 0;
    jitter_mini = 1000000.0;
    jitter_maxi = -1000000.0;
    jitter_avgi = 0.0;
    stream_idx++;
    stream_idx = stream_idx % nstream;
    continue;
}
tvsub( &timed, &timerx, &timepkri );
pkt_delta =
timed.tv_sec*1000
+ ((double)timed.tv_usec) / 1000;
pkt_delta -= pkt_time_ms;
if (pkt_delta >= 0)
jitteri = pkt_delta;
else
jitteri = -pkt_delta;
jitteri++;
if (jitteri < jitter_mini)
jitter_mini = jitteri;
if (jitteri > jitter_maxi)
jitter_maxi = jitteri;
jitter_avgi += jitteri;
timepkri = timerx;
ntbytescpi = ntbytesc;
}
stream_idx++;
stream_idx = stream_idx % nstream;
}
if (intr && (cnt > 0))
nbytes += cnt;
if (got_eod0) {
tvsub(&timed, &time_eod, &time_eod0);
correction = timed.tv_sec +
((double)timed.tv_usec)
/ 1000000;
}
}
else {
while (((cnt = Nread(fd[stream_idx + 1], buf, buflen)) > 0) && !intr) {
    nbytes += cnt;
cnt = 0;
    if (first_read) {
        if (interval && !(format & NORETRANS)) {
            uint32_t tmp;
            first_read = 0;
            bcopy(buf + 24, &nretrans[1], 4);
            bcopy(buf + 28, &tmp, 4);
            if (tmp == 0x5254524Eu) {
            /* "RTRN" */
                retransinfo = 1;
            #if defined(linux)
            cwndinfo = 1;
            #endif
                b_flag = 1;
            } else if (tmp == 0x48525452u) {
            /* "HRTR" */
                retransinfo = 2;
cwndinfo = 0;
                read_cwnd = 0;
b_flag = 1;
            } else if (tmp == 0x4E525452u) {
            /* "NRTR" */
                need_swap = 1;
                retransinfo = 1;
            #if defined(linux)
            cwndinfo = 1;
            #endif
                b_flag = 1;
                }
        }
    }
}
else if (tmp == 0x52545248u) {
    /* "RTRH" */
    need_swap = 1;
    retransinfo = 2;
    cwndinfo = 0;
    read_cwnd = 0;
    b_flag = 1;
}
else {
    retransinfo = -1;
    cwndinfo = 0;
    read_retrans = 0;
    read_cwnd = 0;
}
if (format & NOCWND) {
    cwndinfo = 0;
    read_cwnd = 0;
}
else {
    read_retrans = 0;
    read_cwnd = 0;
}
}
if (read_retrans) {
    if (!need_swap)
        bcopy(buf + 24, &nretrans[1], 4);
    else {
        cp1 = (char *)&nretrans[1];
        cp2 = buf + 27;
        for (i = 0; i < 4; i++)
            *cp1++ = *cp2--;
    }
}
if (read_cwnd) {
    if (!need_swap)
        bcopy(buf + 28, &cwnd[1], 4);
    else {
        cp1 = (char *)&cwnd[1];
        cp2 = buf + 31;
        for (i = 0; i < 4; i++)
            *cp1++ = *cp2--;
    }
}
stream_idx++;
stream_idx = stream_idx % nstream;
}
if (intr && (cnt > 0))
    nbytes += cnt;
else {
    register int cnt;
    if (trans) {
        #if defined(linux)
        struct stat instat;

        if (fstat(savestdin, &instat) == 0) {
            if (!S_ISREG(instat.st_mode) && 
                 !S_ISBLK(instat.st_mode)) {
                zerocopy = 0;
                directio = 0;
            }
        } else {
            zerocopy = 0;
            directio = 0;
        }
        if (directio) {
            flags = fcntl(savestdin, F_GETFL, 0);
            if (flags < 0)
                errmes("fcntl get O_DIRECT");
            else {
                flags |= O_DIRECT;
                if (fcntl(savestdin,
                        F_SETFL, flags) < 0)
                    errmes("fcntl set O_DIRECT");
            }
        }
        if (zerocopy) {
            while (nbuf-- &&
                ((cnt=sendfile(fd[stream_idx + 1],
                              savestdin,
                              (off_t *)&nbytes,
                              buflen)) > 0)) {
                cnt = 0;
                stream_idx++;
            }
        }
    }
}
else
#endif
{
  while (nbuf-- &&
      ((cnt=read(savestdin, buf, buflen)) > 0) &&
      (Nwrite(fd[stream_idx + 1], buf, cnt)
== cnt))
  {
    nbytes += cnt;
    cnt = 0;
    stream_idx++;
    stream_idx = stream_idx % nstream;
  }
}
if (udp) {
  strcpy(buf, "EOD0");
  (void)Nwrite( fd[stream_idx + 1], buf, 4 ); /* rcvr end */
}
else {
  #if defined(linux)
  struct stat outstat;
  if (fstat(savestdout, &outstat) == 0) {
    if (!S_ISREG(outstat.st_mode) &&
        !S_ISBLK(outstat.st_mode))
      directio = 0;
  } else
    directio = 0;
  #endif
  while ((cnt=Nread(fd[stream_idx + 1], buf, buflen)) > 0 &&
      ((cnt != 4) || strncmp(buf, "EOD", 3) != 0) &&
      mwrite(savestdout, buf, cnt,
      cnt != buflen) == cnt)
  {
    nbytes += cnt;
    cnt = 0;
stream_idx++; 
stream_idx = stream_idx % nstream; 
} 
} 
} 
if (errno && (errno != EAGAIN)) { 
if (!clientserver || client) err("IO"); 
}

itimer.it_value.tv_sec = 0; 
itimer.it_value.tv_usec = 0; 
itimer.it_interval.tv_sec = 0; 
itimer.it_interval.tv_usec = 0; 
setitimer(ITIMER_REAL, &itimer, 0); 
done = 1; 
(void)read_timer(stats, sizeof(stats)); 

if (udp&trans) { 
u_sleep(500000); 
strcpy(buf, "EOD1"); 
(void)Nwrite( fd[stream_idx], buf, 4 ); /* rcvr end */ 
stream_idx++; 
stream_idx = stream_idx % nstream; 
u_sleep(500000); 
strcpy(buf, "EOD2"); 
(void)Nwrite( fd[stream_idx], buf, 4 ); /* rcvr end */ 
stream_idx++; 
stream_idx = stream_idx % nstream; 
u_sleep(500000); 
strcpy(buf, "EOD3"); 
(void)Nwrite( fd[stream_idx], buf, 4 ); /* rcvr end */ 
stream_idx++; 
stream_idx = stream_idx % nstream; 
u_sleep(500000); 
strcpy(buf, "EOD4"); 
(void)Nwrite( fd[stream_idx], buf, 4 ); /* rcvr end */ 
stream_idx++; 
stream_idx = stream_idx % nstream; 
}

if (!udp & trans && (format & DEBUGRETRANS)) { 
sretrans = get_retrans(-1, &tcpinf); 
printf(stdout, "before closing system retrans = %d\n", sretrans); 
}
#ifdef DEBUG
if (clientserver && client && !trans && !do_jitter && njitter &&
    (format & DEBUGJITTER)) {
    fprintf(stdout, "njitter = %lld\n", njitter);
    fprintf(stderr, "jitter_min = %9.6f ms\n", jitter_min);
    fprintf(stderr, "jitter_max = %9.6f ms\n", jitter_max);
    fprintf(stderr, "jitter_avg = %9.6f ms\n", jitter_avg/njitter);
}
#endif

for (stream_idx = 1; stream_idx <= nstream; stream_idx++) {
    if (!udp && trans) {
#if defined(linux) && defined(TCPI_OPT_TIMESTAMPS) && !defined(BROKEN_UNACKED)
/* if -DBROKEN_UNACKED skip check for unACKed data
 * (workaround motivated by possible bug encountered
 * on a Suse Linux 10.1 system)
 */
struct timeval timeunsent, timec, timed;
double xmitrate;
int unsent, xmitunsent;
long flags;

    optlen = sizeof(tcpinf);
    if (getsockopt(fd[stream_idx], SOL_TCP, TCP_INFO,
                    (void *)&tcpinf, &optlen) < 0) {
        mes("couldn't collect TCP info\n");
        retransinfo = -1;
cwndinfo = 0;
    }
    if (ioctl(fd[stream_idx], SIOCOUTQ, &unsent) < 0) {
        mes("couldn't get SIOCOUTQ value\n");
        unsent = -1;
    }
    get_timeofday(&timeunsent, (struct timezone *)0);
    realtd = 0.0;
    xmitrate = ((double)nbytes-(double)unsent)/realt;
    xmitunsent = (double)unsent/xmitrate;
    xmitunsent = 2*xmitunsent + MAX_EOT_WAIT_SEC;
    if (clientserver && client) {
        reading_srvr_info = 1;
pollfds[0].fd = fileno(ctlconn);
pollfds[0].events = POLLIN | POLLPRI;
pollfds[0].revents = 0;
    flags = fcntl(0, F_GETFL, 0);
    if (flags < 0)
        err("fcntl 1");
    flags |= O_NONBLOCK;
    if (fcntl(0, F_SETFL, flags) < 0)
err("fcntl 2");
itimer.it_value.tv_sec = xmitunsent + 10;
itimer.it_value.tv_usec = 0;
itimer.it_interval.tv_sec = 0;
itimer.it_interval.tv_usec = 0;
setitimer(ITIMER_REAL, &itimer, 0);
}
while ((unsent > 0) && (realtd < xmitunsent)) {
if (clientserver && client &&
   ((pollst = poll(pollfds, 1, 0)) > 0) &&
   (pollfds[0].revents & (POLLIN | POLLPRI)) &&
   !got_done) {
/* check for server output */
while (fgets(intervalbuf,
    sizeof(intervalbuf), stdin))
{
setitimer(ITIMER_REAL, &itimer, 0);
get_timeofday(&timeunsent,
    (struct timezone *)0);
if (strncmp(intervalbuf, "DONE", 4)
== 0) {
if (format & DEBUGPOLL) {
    fprintf(stdout,
        "got DONEn",
    ffflush(stdout);
    }
    got_done = 1;
    intr = 1;
    break;
    }
else if (strncmp(intervalbuf,
    "nuttcp-", 7) == 0) {
if ((brief <= 0) ||
    strstr(intervalbuf,
        "Warning") ||
    strstr(intervalbuf,
        "Error") ||
    strstr(intervalbuf,
        "Debug")) {
if (*ident) {
    fputs("nuttcp",
        stdout);
    puts(trans ?
        "-r" : "-t",
        stdout);
    puts(ident,
        stdout);
    fputs(intervalbuf

+ 8,
stderr);}
else
  fputs(intervalbuf,
stderr);
fflush(stderr);
}
if (strstr(intervalbuf,
  "Error"))
exi(1);
else {
  if (*ident)
    fprintf(stdout, "%s: ",
ident + 1);
  intervalbuf[strlen(intervalbuf)
- 1] = '\0';
  if (do_retrans) {
    cp1 = strstr(intervalbuf,
"Mbps") + 4;
    ch = '\0';
    if (cp1) {
      if (format & PARSE) {
        cp1 = strchr(cp1,
'.');
        if (cp1)
          cp1 += 5;
      }
    ch = *cp1;
    }
    if (ch)
      *cp1 = '\0';
  }
  fputs(intervalbuf, stdout);
  if (do_retrans && sinkmode &&
    (nstream == 1)) {
    nretrans[1] =
    get_retrans(
    fd[stream_idx],
    &tcpinf);
    nretrans[1] -= iretrans[1];
    if (format & PARSE)
      fprintf(stdout,
P_RETRANS_FMT_INTERVAL,
    (retransinfo == 1) ?
    "", "host-",
    (nretrans[1]


- pretrans));
  else
  fprintf(stdout,
  RETRANS_FMT_INTERVAL,
  (nretrans[1] - pretrans),
  "" : "host-");
  pretrans = nretrans[1];
}
if (do_cwnd && sinkmode &&
  (nstream == 1)) {
  cwnd[1] =
    tcpinf.tcpinfo_snd_cwnd
  *datamss/1024;
  if (format & PARSE)
    fprintf(stdout,
    P_CWND_FMT_INTERVAL,
    cwnd[1]);
  else
    fprintf(stdout,
    CWND_FMT_INTERVAL,
    cwnd[1]);
}
if (do_retrans && cp1 && ch) {
  *cp1 = ch;
  fputs(cp1, stdout);
}
fprintf(stdout, "\n");
fflush(stdout);
}
}
if (format & DEBUGRETRANS)
  print_tcpinfo();
if (format & DEBUGRETRANS)
  usleep(100000);
else
  usleep(1000);
optlen = sizeof(tcpinf);
if (getsockopt(fd[stream_idx],
               SOL_TCP, TCP_INFO,
               (void *)&tcpinf, &optlen) < 0) {
  mes("couldn't collect TCP info\n");
  retransinfo = -1;
cwndinfo = 0;
}
if (ioctl(fd[stream_idx], SIOCOUTQ, &unsent) < 0) {
    mes("couldn't get SIOCOUTQ value\n");
    unsent = -1;
}

gettimeofday(&timec, (struct timezone *)0);
tvsub(&timed, &timec, &timeunsent);
realtd = timed.tv_sec
    + ((double)timed.tv_usec) / 1000000;
}

if (clientserver && client) {
    reading_srvr_info = 0;
    flags = fcntl(0, F_GETFL, 0);
    if (flags < 0)
        err("fcntl 1");
    flags &= ~O_NONBLOCK;
    if (fcntl(0, F_SETFL, flags) < 0)
        err("fcntl 2");
    itimer.it_value.tv_sec = 0;
    itimer.it_value.tv_usec = 0;
    setitimer(ITIMER_REAL, &itimer, 0);
}

if (getsockopt(fd[stream_idx], SOL_TCP, TCP_INFO, (void *)&tcpinf, &optlen) < 0) {
    mes("couldn't collect TCP info\n");
    retransinfo = -1;
    cwndinfo = 0;
}

if (unsent > 0) {
    /* assume receiver went away */
    if (clientserver && client) {
        mes("Error: timeout while draining "
            "socket send queue");
        exit(1);
    }
    goto cleanup;
}

if (format & DEBUGRETRANS)
    print_tcpinfo();
#endif

if (retransinfo > 0) {
    if ((stream_idx == 1) || (retransinfo == 1)) {
        nretrans[stream_idx] =
        get_retrans(fd[stream_idx],
            &tcpinf);
        nretrans[stream_idx] =
iretrans[stream_idx];
#endif
if (retransinfo == 1)
cwnd[stream_idx] =
tcpinf.tcpinfo_snd_cwnd *datamss/1024;
#else
#endif
}
}
}
}
if (!udp && trans && (format & DEBUGRETRANS)) {
sretrans = get_retrans(-1, &tcpinf);
fprintf(stdout, "after closing system retrans = \%d\n",
sretrans);
}
if (interval && clientserver && client && do_retrans && !got_done) {
/* don't fully close data channels yet since there
 * may be some straggler interval reports to which we
 * will need to append retrans info, so just shutdown()
 * for writing for now */
for (stream_idx = 1; stream_idx <= nstream; stream_idx++)
shutdown(fd[stream_idx], SHUT_WR);
} else
close_data_channels();

if (interval && clientserver && !client && !trans) {
fprintf(stdout, "DONE\n");
fflush(stdout);
}
if (cput <= 0.0)  cput = 0.000001;
if (realt <= 0.0)  realt = 0.000001;
if (udp && !trans) {
if (got_eod0)
realt -= correction;
else
realt -= ocorrection * 0.5;
}
sprintf(srvrbuf, \"%.4f\", (double)nbytes/1024/1024);
sscanf(srvrbuf, \"%lf\", &MB);
if (clientserver && client)
reading_srvr_info = 1;
if (interval && clientserver && client && trans && !got_done) {
    long flags;

    if (format & DEBUGPOLL) {
        fprintf(stdout, "getting rest of server output\n");
        fflush(stdout);
    }
    flags = fcntl(0, F_GETFL, 0);
    if (flags < 0)
        err("fcntl 3");
    flags &= ~O_NONBLOCK;
    if (fcntl(0, F_SETFL, flags) < 0)
        err("fcntl 4");
    itimer.it_value.tv_sec = SRVR_INFO_TIMEOUT;
    itimer.it_value.tv_usec = 0;
    itimer.it_interval.tv_sec = 0;
    itimer.it_interval.tv_usec = 0;
    setitimer(ITIMER_REAL, &itimer, 0);
    while (fgets(intervalbuf, sizeof(intervalbuf), stdin)) {
        setitimer(ITIMER_REAL, &itimer, 0);
        if (strncmp(intervalbuf, "DONE", 4) == 0) {
            if (format & DEBUGPOLL) {
                fprintf(stdout, "got DONE 2\n");
                fflush(stdout);
            }
            break;
        }
        if (!strstr(intervalbuf, " MB / ") ||
            !strstr(intervalbuf, " sec = "))
            continue;
        if (*ident)
            fprintf(stdout, "%s: ", ident + 1);
        intervalbuf[strlen(intervalbuf) - 1] = '\0';
        if (do_retrans) {
            cp1 = strstr(intervalbuf, "Mbps") + 4;
            ch = '0';
            if (cp1) {
                if (format & PARSE) {
                    cp1 = strchr(cp1, '.');
                    if (cp1)
                        ch = *cp1 + 5;
                    ch = *cp1;
                }
                if (ch)
                    *cp1 = '0';
            }
        }
    }
}
fputs(intervalbuf, stdout);
if (do_retrans && sinkmode) {
    nretrans[1] = get_retrans(fd[1], &tcpinf);
    nretrans[1] -= iretrans[1];
    if (format & PARSE)
        fprintf(stdout, P_RETRANS_FMT_INTERVAL,
        (retransinfo == 1) ? "n" : "host-",
        (nretrans[1] - pretrans));
    else
        fprintf(stdout, RETRANS_FMT_INTERVAL,
        (nretrans[1] - pretrans),
        (retransinfo == 1) ? "n" : "host-"),
        pretrans = nretrans[1];
}
#if defined(linux)
if (do_cwnd && sinkmode) {
    cwnd[1] = tcpinf.tcpinfo_snd_cwnd
    *datamss/1024;
    if (format & PARSE)
        fprintf(stdout, P_CWND_FMT_INTERVAL,
        cwnd[1]);
    else
        fprintf(stdout, CWND_FMT_INTERVAL,
        cwnd[1]);
}
#endif
if (do_retrans && cp1 && ch) {
    *cp1 = ch;
    fputs(cp1, stdout);
}
fprintf(stdout, ";n");
fflush(stdout);
}
itimer.it_value.tv_sec = 0;
itimer.it_value.tv_usec = 0;
setitimer(ITIMER_REAL, &itimer, 0);
}

if (interval && clientserver && client && do_retrans) {
    /* it's OK to fully close the data channels now */
close_data_channels();
}

if (clientserver && client) {
    itimer.it_value.tv_sec = SRVR_INFO_TIMEOUT;
itimer.it_value.tv_usec = 0;
}
setitimer(ITIMER_REAL, &itimer, 0);
cp1 = srvrbuf;
got_srvr_retrans = 0;
got_srvr_cwnd = 0;
while (fgets(cp1, sizeof(srvrbuf) - (cp1 - srvrbuf), stdin)) {
    setitimer(ITIMER_REAL, &itimer, 0);
    if (*(cp1 + strlen(cp1) - 1) != '\n') {
        *cp1 = '\0';
        break;
    }
    if (strstr(cp1, "real") && strstr(cp1, "seconds")) {
        strcpy(fmt, "nuttcp-%*c: ");
        if (format & PARSE)
            strcat(fmt, P_PERF_FMT_IN);
        else
            strcat(fmt, PERF_FMT_IN);
        sscanf(cp1, fmt,
                &srvr_MB, &srvr_realt, &srvr_KBps,
                &srvr_Mbps);
        if (trans && udp) {
            strncpy(tmpbuf, cp1, 256);
            *(tmpbuf + 256) = '\0';
            if (strncmp(tmpbuf,
                            "nuttcp-r", 8) == 0)
                sprintf(cp1, "nuttcp-r%s%s",
                        ident, tmpbuf + 8);
            cp1 += strlen(cp1);
            cp2 = cp1;
            sprintf(cp2, "nuttcp-r:");
            cp2 += 9;
            if (format & PARSE)
                strcpy(fmt, P_DROP_FMT);
            else if ((fractloss != 0.0) &&
                      (fractloss < 0.001))
                strcpy(fmt, LOSS_FMT5);
            sprintf(cp2, fmt,
                    (int64_t)(((MB - srvr_MB)*1024*1024)
                               /buflen + 0.5),
                    (uint64_t)((MB*1024*1024)
                               /buflen + 0.5));
            cp2 += strlen(cp2);
            fractloss = ((MB != 0.0) ?
                          1 - srvr_MB/MB : 0.0);
            if (format & PARSE)
                strcpy(fmt, P_LOSS_FMT);
            else if (((fractloss != 0.0) &&
                       (fractloss < 0.001))
                      && (fractloss < 0.001))
                strcpy(fmt, LOSS_FMT5);
else
strcpy(fmt, LOSS_FMT);
strncat(cp2, fmt, fractloss * 100);
cp2 += strlen(cp2);
sprintf(cp2, "\n");
}
}
else if (strstr(cp1, "sys")) {
strcpy(fmt, "nuttcp-%*c: ");
if (format & PARSE) {
strcat(fmt, "stats=cpu ");
strcat(fmt, P_CPU_STATS_FMT_IN2);
}
else
strcat(fmt, CPU_STATS_FMT_IN2);
if (sscanf(cp1, fmt,
&srvr_cpu_util) != 7) {
strcpy(fmt, "nuttcp-%*c: ");
if (format & PARSE) {
strcat(fmt, "stats=cpu ");
strcat(fmt,
P_CPU_STATS_FMT_IN);
}
else
sscanf(fmt, CPU_STATS_FMT_IN);
sscanf(cp1, fmt,
&srvr_cpu_util);
}
}
else if ((cp2 = strstr(cp1, "retrans"))) {
got_srvr_retrans = 1;
retransinfo = 1;
if (strstr(cp1, "host-retrans"))
retransinfo = 2;
if (format & PARSE)
sscanf(cp2, P_RETRANS_FMT_IN,
&total_retrans);
else
sscanf(cp2, RETRANS_FMT_IN,
&total_retrans);
if (format & PARSE) {
if ((cp2 = strstr(cp2,
"retrans_by_stream=")))
cp2 += 18;
else
}
if ((cp2 = strstr(cp2, "(")))
cp2 += 2;
else
  cp2 = NULL;
}
if (cp2) {
  sscanf(cp2, "%d", &nretrans[1]);
  stream_idx = 2;
  while ((stream_idx <= nstream) &&
         (cp2 = strchr(cp2, '+'))) {
    cp2++;
    sscanf(cp2, "%d",
           &nretrans[stream_idx]);
    stream_idx++;
  }
  /* below is for compatibility with 6.0.x beta */
  if ((cp2 = strstr(cp1, "RTT"))) {
    if (format & PARSE)
      sscanf(cp2, P_RTT_FMT_IN, &rtt);
    else
      sscanf(cp2, RTT_FMT_INB, &rtt);
  }
  if ((cp2 = strstr(cp1, "cwnd"))) {
    got_srvr_cwnd = 1;
    cwndinfo = 1;
    if (format & PARSE)
      sscanf(cp2, P_CWND_FMT_IN,
             &total_snd_cwnd);
    else
      sscanf(cp2, CWND_FMT_IN,
             &total_snd_cwnd);
    if (format & PARSE) {
      if ((cp2 = strstr(cp2, "cwnd_by_stream=")))
        cp2 += 15;
      else
        cp2 = NULL;
    } else {
      if ((cp2 = strstr(cp2, "(")))
        cp2 += 2;
      else
        cp2 = NULL;
    }
  }
  else {
    if ((cp2 = strstr(cp2, "(")))
      cp2 += 2;
    else
      cp2 = NULL;
  }
  if (cp2) {
    sscanf(cp2, "%d", &cwnd[1]);
    stream_idx = 2;
while ((stream_idx <= nstream) &&
   (cp2 = strchr(cp2, '+'))) {
    cp2++;
    sscanf(cp2, "%d", &cwnd[stream_idx]);
    stream_idx++;
}
}
}
}
else if ((cp2 = strstr(cp1, "RTT")) ||
    (cp2 = strstr(cp1, "rtt"))) {
    if (format & PARSE)
        sscanf(cp2, P_RTT_FMT_IN, &rtt);
    else
        sscanf(cp2, RTT_FMT_IN, &rtt);
}
else if ((cp2 = strstr(cp1, "jitter"))) {
    if (format & PARSE)
        sscanf(cp2, P_JITTER_FMT_IN, &jitter_min, &jitter_avg, &jitter_max);
    else
        sscanf(cp2, JITTER_FMT_IN, &jitter_min, &jitter_avg, &jitter_max);
    njitter = 1;
}
else if ((cp2 = strstr(cp1, "OWD"))) {
    if (format & PARSE)
        sscanf(cp2, P_OWD_FMT_IN, &owd_min, &owd_avg, &owd_max);
    else
        sscanf(cp2, OWD_FMT_IN, &owd_min, &owd_avg, &owd_max);
    nowd = 1;
}
else if ((strstr(cp1, "KB/cpu")) && !verbose)
    continue;
strncpy(tmpbuf, cp1, 256);
*(tmpbuf + 256) = '\0';
if (strncmp(tmpbuf, "nuttcp-", 7) == 0)
    fprintf(cp1, "nuttcp-%c%s%s", tmpbuf[7], ident, tmpbuf + 8);
if ((strstr(cp1, "Warning") ||
    strstr(cp1, "Error") ||
strstr(cp1, "Debug")
&& (brief > 0)) {
    fputs(cp1, stdout);
    fflush(stdout);
}
cp1 += strlen(cp1);

itimer.it_value.tv_sec = 0;
itimer.it_value.tv_usec = 0;
setitimer(ITIMER_REAL, &itimer, 0);
got_srvr_output = 1;
if (!udp && !trans) {
    if (!got_srvr_retrans)
        retransinfo = -1;
    if (!got_srvr_cwnd)
        cwndinfo = 0;
}
}
if (!udp && trans) {
    if (retransinfo > 0) {
        total_retrans = 0;
        for (stream_idx = 1; stream_idx <= nstream; stream_idx++) {
            total_retrans += nretrans[stream_idx];
        }
    }
    if (cwndinfo) {
        total_snd_cwnd = 0;
        for (stream_idx = 1; stream_idx <= nstream; stream_idx++) {
            total_snd_cwnd += cwnd[stream_idx];
        }
    }
}
if (brief <= 0) {
    strcpy(fmt, "nuttcp%s%s: ");
    if (format & PARSE)
        strcat(fmt, P_PERF_FMT_OUT);
    else
        strcat(fmt, PERF_FMT_OUT);
    fprintf(stdout, fmt, trans?"-t":"-r", ident,
            (double)nbytes/(1024*1024), realt,
            (double)nbytes/realt/1024,
            (double)nbytes/realt/125000);
    if (clientserver && client && !trans && udp) {
        fprintf(stdout, "nuttcp-r%s:", ident);
        if (format & PARSE)
            strcpy(fmt, P_DROP_FMT);
else
strcpy(fmt, DROP_FMT);
fprintf(stdout, fmt,
(int64_t)((srvr_MB - MB)*1024*1024)
/buflen + 0.5),
(uint64_t)((srvr_MB*1024*1024)/buflen + 0.5));
fractloss = ((srvr_MB != 0.0) ? 1 - MB/srvr_MB : 0.0);
if (format & PARSE)
strcpy(fmt, P_LOSS_FMT);
else if ((fractloss != 0.0) && (fractloss < 0.001))
strcpy(fmt, LOSS_FMT5);
else
strcpy(fmt, LOSS_FMT);
fprintf(stdout, fmt, fractloss * 100);
fprintf(stdout, "\n");
}
if (clientserver && udp && !trans && do_jitter && njitter) {
strcpy(fmt, "nuttcp%s%s: ");
if (format & PARSE)
strcat(fmt, P_JITTER_FMT);
else
strcat(fmt, JITTER_FMT);
fprintf(stdout, fmt, trans?"-t":"-r", ident,
jitter_min, jitter_avg/njitter, jitter_max);
fprintf(stdout, "\n");
}
if (clientserver && !trans && do_owd && nowd) {
strcpy(fmt, "nuttcp%s%s: ");
if (format & PARSE)
strcat(fmt, P_OWD_FMT);
else
strcat(fmt, OWD_FMT);
fprintf(stdout, fmt, trans?"-t":"-r", ident,
owd_min, owd_avg/nowd, owd_max);
fprintf(stdout, "\n");
}
if (verbose) {
strcpy(fmt, "nuttcp%s%s: ");
if (format & PARSE)
strcat(fmt, "megabytes=%.4f cpu_seconds=%.2f KB_per_cpu_second=%.2f\n");
else
strcat(fmt, "%4f MB in %.2f CPU seconds = %.2f KB/cpu sec\n");
fprintf(stdout, fmt,
trans?"-t":"-r", ident,
(double)nbytes/(1024*1024), cput,
(double)nbytes/cput/1024);
}
if (!udp && trans && (retransinfo > 0)) {
fprintf(stdout, "nuttcp%s%s: ",
trans ? ":-t" : ":-r", ident);
if (format & PARSE)
strcpy(fmt, P_RETRANS_FMT);
else
strcpy(fmt, RETRANS_FMT);
fprintf(stdout, fmt,
retransinfo == 1 ? "" : "host-", total_retrans);
if ((nstream > 1) && (retransinfo == 1) &&
total_retrans) {
if (format & PARSE)
fprintf(stdout, P_RETRANS_FMT_STREAMS,
retrans[1]);
else
fprintf(stdout, "%d", retrans[1]);
for ( stream_idx = 2; stream_idx <= nstream;
stream_idx++) {
fprintf(stdout, "+%d",
retrans[stream_idx]);
}
if (!format & PARSE))
fprintf(stdout, " )");
#endif
if defined(linux)
if (cwndinfo) {
if (format & PARSE)
strcpy(fmt, P_CWND_FMT);
else
strcpy(fmt, CWND_FMT);
fprintf(stdout, fmt, total_snd_cwnd);
if ((nstream > 1) && (retransinfo == 1) &&
total_snd_cwnd) {
if (format & PARSE)
fprintf(stdout, P_CWND_FMT_STREAMS,
cwnd[1]);
else
fprintf(stdout, "%d", cwnd[1]);
for ( stream_idx = 2; stream_idx <= nstream;
stream_idx++) {
fprintf(stdout, "+%d",
cwnd[stream_idx]);
}
if (!format & PARSE))
fprintf(stdout, " )");
}
#else
fprintf(stdout, "n");
strcpy(fmt, "nuttcp%s%s: ");
if (format & PARSE)
strcat(fmt, "io_calls=%d msec_per_call=%.2f calls_per_sec=%.2f\n");
else
strcat(fmt, "%d I/O calls, msec/call = %.2f, calls/sec = %.2f\n");
fprintf(stdout, fmt,
trans?-t":"-r", ident,
numCalls,
1024.0 * realt/((double)numCalls),
((double)numCalls)/realt);

strcpy(fmt, "nuttcp%s%s: ");
if (format & PARSE)
strcat(fmt, "stats=cpu %s\n");
else
strcat(fmt, "%s\n");
fprintf(stdout, fmt, trans?-t":"-r", ident, stats);
}

if (format & PARSE)
strcpy(fmt, P_CPU_STATS_FMT_IN2);
else
strcpy(fmt, CPU_STATS_FMT_IN2);
if (sscanf(stats, fmt, &cpu_util) != 6) {
if (format & PARSE)
strcpy(fmt, P_CPU_STATS_FMT_IN);
else
strcpy(fmt, CPU_STATS_FMT_IN);
sscanf(stats, fmt, &cpu_util);
}

if (brief && clientserver && client) {
if ((brief < 0) || interval)
fprintf(stdout, "\n");
if (udp) {
if (trans) {
if (*ident)
fprintf(stdout, "%s: ", ident + 1);
if (format & PARSE)
strcpy(fmt, P_PERF_FMT_BRIEF);
else
strcpy(fmt, PERF_FMT_BRIEF);
fprintf(stdout, fmt,
srvr_MB, srvr_realt, srvr_Mbps,
cpu_util, srvr_cpu_util);
if (!(format & NODROPS)) {
if (format & PARSE)
    strcpy(fmt, P_DROP_FMT_BRIEF);
else
    strcpy(fmt, DROP_FMT_BRIEF);
fprintf(stdout, fmt,
    (int64_t)(((MB - srvr_MB) * 1024*1024) / buflen + 0.5),
    (uint64_t)((MB*1024*1024) / buflen + 0.5));
}
if (!(format & NOPERCENTLOSS)) {
    fractloss = ((MB != 0.0) ?
                  1 - srvr_MB/MB : 0.0);
    if (format & PARSE)
        strcpy(fmt, P_LOSS_FMT_BRIEF);
    else if ((fractloss != 0.0) &&
              (fractloss < 0.001))
        strcpy(fmt, LOSS_FMT_BRIEF5);
    else
        strcpy(fmt, LOSS_FMT_BRIEF);
    fprintf(stdout, fmt, fractloss * 100);
}
if (format & XMITSTATS) {
    if (format & PARSE)
        strcpy(fmt, P_PERF_FMT_BRIEF3);
    else
        strcpy(fmt, PERF_FMT_BRIEF3);
    fprintf(stdout, fmt, MB);
}
if ((do_jitter & JITTER_MIN) && njitter) {
    if (format & PARSE)
        strcpy(fmt, P_JITTER_MIN_FMT_BRIEF);
    else
        strcpy(fmt, JITTER_MIN_FMT_BRIEF);
    fprintf(stdout, fmt, jitter_min);
}
if ((do_jitter & JITTER_AVG) && njitter) {
    if (format & PARSE)
        strcpy(fmt, P_JITTER_AVG_FMT_BRIEF);
    else
        strcpy(fmt, JITTER_AVG_FMT_BRIEF);
    fprintf(stdout, fmt, jitter_avg/njitter);
if ((do_jitter & JITTER_MAX) && njitter) {
    if (format & PARSE)
        strcpy(fmt,
            P_JITTER_MAX_FMT_BRIEF);
    else
        strcpy(fmt,
            JITTER_MAX_FMT_BRIEF);
    fprintf(stdout, fmt, jitter_max);
} else {
    if (*ident)
        fprintf(stdout, "%s: ", ident + 1);
    if (format & PARSE)
        strcpy(fmt, P_PERF_FMT_BRIEF);
    else
        strcpy(fmt, PERF_FMT_BRIEF);
    fprintf(stdout, fmt,
        MB, realt, (double)nbytes/realt/125000,
        srvr_cpu_util, cpu_util);
    if (!(format & NODROPS)) {
        if (format & PARSE)
            strcpy(fmt, P_DROP_FMT_BRIEF);
        else
            strcpy(fmt, DROP_FMT_BRIEF);
        fprintf(stdout, fmt, drop_count);
    }
}
else
strcpy(fmt, DROP_FMT_BRIEF);
fprintf(stdout, fmt,
(int64_t)(((srvr_MB - MB)
*1024*1024)
/buflen + 0.5),
(uint64_t)((srvr_MB*1024*1024)
/buflen + 0.5));
}
if (!(format & NOPERCENTLOSS)) {
fractloss = ((srvr_MB != 0.0) ?
1 - MB/srvr_MB : 0.0);
if (format & PARSE)
strcpy(fmt, P_LOSS_FMT_BRIEF);
else if ((fractloss != 0.0) &&
(fractloss < 0.001))
strcpy(fmt, LOSS_FMT_BRIEF5);
else
strcpy(fmt, LOSS_FMT_BRIEF);
fprintf(stdout, fmt, fractloss * 100);
}
if (format & XMITSTATS) {
if (format & PARSE)
strcpy(fmt, P_PERF_FMT_BRIEF3);
else
strcpy(fmt, PERF_FMT_BRIEF3);
fprintf(stdout, fmt, srvr_MB);
}
if ((do_jitter & JITTER_MIN) && njitter) {
if (format & PARSE)
strcpy(fmt,
P_JITTER_MIN_FMT_BRIEF);
else
strcpy(fmt,
JITTER_MIN_FMT_BRIEF);
fprintf(stdout, fmt, jitter_min);
}
if ((do_jitter & JITTER_AVG) && njitter) {
if (format & PARSE)
strcpy(fmt,
P_JITTER_AVG_FMT_BRIEF);
else
strcpy(fmt,
JITTER_AVG_FMT_BRIEF);
fprintf(stdout, fmt,
(jitter_avg/njitter);
}
if ((do_jitter & JITTER_MAX) && njitter) {
if (format & PARSE)
    strcpy(fmt,
            P_JITTER_MAX_FMT_BRIEF);
else
    strcpy(fmt,
            JITTER_MAX_FMT_BRIEF);
fprintf(stdout, fmt, jitter_max);
}
if ((do_owd & OWD_MIN) && nowd) {
    if (format & PARSE)
        strcpy(fmt,
                P_OWD_MIN_FMT_BRIEF);
    else
        strcpy(fmt, OWD_MIN_FMT_BRIEF);
    fprintf(stdout, fmt, owd_min);
}
if ((do_owd & OWD_AVG) && nowd) {
    if (format & PARSE)
        strcpy(fmt,
                P_OWD_AVG_FMT_BRIEF);
    else
        strcpy(fmt, OWD_AVG_FMT_BRIEF);
    fprintf(stdout, fmt, owd_avg/nowd);
}
if ((do_owd & OWD_MAX) && nowd) {
    if (format & PARSE)
        strcpy(fmt,
                P_OWD_MAX_FMT_BRIEF);
    else
        strcpy(fmt, OWD_MAX_FMT_BRIEF);
    fprintf(stdout, fmt, owd_max);
}
fprintf(stdout, "\n");
}
else
    if (trans) {
        if ((retransinfo > 0) &&
            (!(format & NORETRANS))) {
            if (format & DEBUGRETRANS) {
                sretrans = get_retrans(-1, &tcpinf);
                fprintf(stdout,
                    "report system retrans = %d\n",
                        sretrans);
            }
            if (*ident)
                fprintf(stdout, "%s: ", ident + 1);
        }
if (format & PARSE)
strcpy(fmt, P_PERF_FMT_BRIEF);
else
strcpy(fmt, PERF_FMT_BRIEF);
fprintf(stdout, fmt,
srvr_MB, srvr_realt, srvr_Mbps,
cpu_util, srvr_cpu_util);
if ((nstream > 1) && (retransinfo == 1) &&
total_retrans && !(format & NORETRANS) &&
(brief & BRIEF_RETRANS_STREAMS)) {
if (format & PARSE) {
fprintf(stdout, P_RETRANS_FMT_BRIEF,
"", total_retrans);
fprintf(stdout,
P_RETRANS_FMT_STREAMS,
nretrans[1]);
}
else {
fprintf(stdout,
RETRANS_FMT_BRIEF_STR1,
total_retrans,
nretrans[1]);
}
for ( stream_idx = 2;
stream_idx <= nstream;
stream_idx++) {
fprintf(stdout, "+%d",
nretrans[stream_idx]);
}
if (!(format & PARSE))
fprintf(stdout,
RETRANS_FMT_BRIEF_STR2);
} else if ((retransinfo > 0) &&
(!(format & NORETRANS))) {
if (format & PARSE)
fprintf(stdout,
P_RETRANS_FMT_BRIEF,
retransinfo == 1 ?
"", "host-", 
total_retrans);
else
fprintf(stdout,
RETRANS_FMT_BRIEF,
total_retrans,
retransinfo == 1 ?
"", "host-"));
}
#if defined(linux)
if ((nstream > 1) && cwndinfo &&
    (retransinfo == 1) &&
    total_snd_cwnd && !(format & NOCWND) &&
    (brief & BRIEF_CWND_STREAMS)) {
    if (format & PARSE) {
        fprintf(stdout, P_CWND_FMT_BRIEF,
                total_snd_cwnd);
        fprintf(stdout,
                P_CWND_FMT_STREAMS,
                cwnd[1]);
    }
    else {
        fprintf(stdout,
                CWND_FMT_BRIEF_STR1,
                total_snd_cwnd,
                cwnd[1]);
    }
    for (stream_idx = 2;
        stream_idx <= nstream;
        stream_idx++) {
        fprintf(stdout, "+%d",
                cwnd[stream_idx]);
    }
    if (!(format & PARSE))
        fprintf(stdout,
                CWND_FMT_BRIEF_STR2);
    }
else if (cwndinfo && (!(format & NOCWND))) {
    if (format & PARSE)
        fprintf(stdout,
                P_CWND_FMT_BRIEF,
                total_snd_cwnd);
    else
        fprintf(stdout,
                CWND_FMT_BRIEF,
                total_snd_cwnd);
    #endif
    if (rtt && (format & WANTRTT)) {
        if (format & PARSE)
            strcpy(fmt, P_RTT_FMT_BRIEF);
        else
            strcpy(fmt, RTT_FMT_BRIEF);
        fprintf(stdout, fmt, rtt);
    }
    if ((do_owd & OWD_MIN) && nowd) {
        if (format & PARSE)
strcpy(fmt,
    P_OWD_MIN_FMT_BRIEF);
else
strcpy(fmt, OWD_MIN_FMT_BRIEF);
fprintf(stdout, fmt, owd_min);
}
if ((do_owd & OWD_AVG) && nowd) {
if (format & PARSE)
strcpy(fmt,
    P_OWD_AVG_FMT_BRIEF);
else
strcpy(fmt, OWD_AVG_FMT_BRIEF);
fprintf(stdout, fmt, owd_avg/nowd);
}
if ((do_owd & OWD_MAX) && nowd) {
if (format & PARSE)
strcpy(fmt,
    P_OWD_MAX_FMT_BRIEF);
else
strcpy(fmt, OWD_MAX_FMT_BRIEF);
fprintf(stdout, fmt, owd_max);
}
fprintf(stdout, "\n");
else {
if (*ident)
fprintf(stdout, "%s: ", ident + 1);
if (format & PARSE)
strcpy(fmt, P_PERF_FMT_BRIEF);
else
strcpy(fmt, PERF_FMT_BRIEF);
fprintf(stdout, fmt,
MB, realt, (double)nbytes/realt/125000,
srvr_cpu_util, cpu_util);
if ((nstream > 1) && (retransinfo == 1) &&
total_retrans && !(format & NORETRANS) &&
(brief & BRIEF_RETRANS_STREAMS) &&
(irvers >= 70101)) {
if (format & PARSE) {
    fprintf(stdout, P_RETRANS_FMT_BRIEF,
        ",\n", total_retrans);
    fprintf(stdout,
        P_RETRANS_FMT_STREAMS,
        nretrans[1]);
}
else {
    fprintf(stdout,
        RETRANS_FMT_BRIEF_STR1,
            nretrans[1]);
}
total_retrans,
nretrans[1]);
}
for (stream_idx = 2;
    stream_idx <= nstream;
    stream_idx++) {
    fprintf(stdout, "+%d",
        nretrans[stream_idx]);
}
if (!(format & PARSE))
    fprintf(stdout,
        RETRANS_FMT_BRIEF_STR2);
else if ((retransinfo > 0) &&
    (!(format & NORETRANS))) {
    if (format & PARSE)
        fprintf(stdout,
            P_RETRANS_FMT_BRIEF,
            retransinfo == 1 ?
            "", "host-",
            total_retrans);
    else
        fprintf(stdout,
            RETRANS_FMT_BRIEF,
            total_retrans,
            retransinfo == 1 ?
            "", "host-");
    }
if ((nstream > 1) && cwndinfo &&
    (retransinfo == 1) &&
    total_snd_cwnd &&
    (!(format & NOCWND)) &&
    (brief & BRIEF_CWND_STREAMS) &&
    (irvers >= 80001)) {
    if (format & PARSE) {
        fprintf(stdout, P_CWND_FMT_BRIEF,
            total_snd_cwnd);
        fprintf(stdout,
            P_CWND_FMT_STREAMS,
            cwnd[1]);
    } else {
        fprintf(stdout,
            CWND_FMT_BRIEF_STR1,
            total_snd_cwnd,
            cwnd[1]);
    }
    for (stream_idx = 2;
        stream_idx <= nstream;
        stream_idx++) {
        fprintf(stdout, "%d",
            nretrans[stream_idx]);
    }

stream_idx++)
    fprintf(stdout, "+%d",
    cwnd[stream_idx]);
}
if (!(format & PARSE))
    fprintf(stdout,
    CWND_FMT_BRIEF_STR2);
} else if (cwndinfo && (!(format & NOCWND))) {
    if (format & PARSE)
        fprintf(stdout,
        P_CWND_FMT_BRIEF,
        total_snd_cwnd);
    else
        fprintf(stdout,
        CWND_FMT_BRIEF,
        total_snd_cwnd);
} if (rtt && (format & WANTRTT)) {
    if (format & PARSE)
        strcpy(fmt, P_RTT_FMT_BRIEF);
    else
        strcpy(fmt, RTT_FMT_BRIEF);
    fprintf(stdout, fmt, rtt);
} if ((do_owd & OWD_MIN) && nowd) {
    if (format & PARSE)
        strcpy(fmt,
        P_OWD_MIN_FMT_BRIEF);
    else
        strcpy(fmt, OWD_MIN_FMT_BRIEF);
    fprintf(stdout, fmt, owd_min);
} if ((do_owd & OWD_AVG) && nowd) {
    if (format & PARSE)
        strcpy(fmt,
        P_OWD_AVG_FMT_BRIEF);
    else
        strcpy(fmt, OWD_AVG_FMT_BRIEF);
    fprintf(stdout, fmt, owd_avg/nowd);
} if ((do_owd & OWD_MAX) && nowd) {
    if (format & PARSE)
        strcpy(fmt,
        P_OWD_MAX_FMT_BRIEF);
    else
        strcpy(fmt, OWD_MAX_FMT_BRIEF);
    fprintf(stdout, fmt, owd_max);
if (!nofork) {
    close(2);
    dup(1);
}
}
}
fclose(ctlconn);
#ifdef DEBUG
if (irate && (format & DEBUGIRATE))
if (debugout) {
    fprintf(debugout, "END nuttcp debug output\n");
    fclose(debugout);
}
#endif
if (!inetd)
close(fd[0]);
if (!udp && trans && (retransinfo > 0)) {
    if (format & DEBUGRETRANS) {
        sretrans = get_retrans(-1, &tcpinf);
        fprintf(stdout, "final system retrans = %d\n", sretrans);
    }
}
if (clientserver && !client) {
    for (stream_idx = 1; stream_idx <= nstream; stream_idx++) {
        fd[stream_idx] = -1;
    }
}
if (multilink &&
    ((trans && !reverse) || (!trans && reverse)) && !udp) {
    for (stream_idx = 2; stream_idx <= nstream;
        stream_idx++) {
        res[stream_idx] = NULL;
    }
}
itimer.it_value.tv_sec = 0;
itimer.it_value.tv_usec = 0;
itimer.it_interval.tv_sec = 0;
itimer.it_interval.tv_usec = 0;
setitimer(ITIMER_REAL, &itimer, 0);
signal(SIGALRM, SIG_DFL);
bzero((char *)&frominet, sizeof(frominet));
bzero((char *)&clientaddr, sizeof(clientaddr));
#ifdef AF_INET6
bzero((char *)&clientaddr6, sizeof(clientaddr6));
clientscope6 = 0;
#endif
cput = 0.000001;
realt = 0.000001;
nbytes = 0;
ntbytes = 0;
ntbytesc = 0;
chk_nbytes = 0;
numCalls = 0;
/*Don't re-initialize buflen since it's used to*/
/*determine if we need to change the buffer memory*/
/*allocation for the next client data stream request*/
/*buflen = 64 * 1024;*/
/*if (udp) buflen = DEFAULTUDPBUFLEN;*/
obuf = 0;
sendwin = origsendwin;
rcvwin = origrcvwin;
b_flag = 1;
rate = MAXRATE;
maxburst = 1;
nburst = 1;
irate = 0;
iratesss = 0;
irate_cum_nsec = 0.0;
timeout = 0.0;
interval = 0.0;
chk_interval = 0.0;
chk_idle_data = 0.0;
datamss = 0;
tos = 0;
nodelay = 0;
do_poll = 0;
pbytes = 0;
pbytes = 0;
ident[0] = \0';
intr = 0;
abortconn = 0;
ipad_stride.ip32 = 0;
port = 5101;
srport = 0;
trans = 0;
braheld = 0;
udp = 0;
udplossinfo = 0;
do_jitter = 0;
do_owd = 0;
retransinfo = 0;
init_pkt_cwnd = 0;
sss_pkt_cwnd = 0;
cwndinfo = 0;
force_retrans = 0;
rtt = 0.0;
which_rt = 1;
pretrans = 0;
sretrans = 0;
got_srvr_output = 0;
reading_srvr_info = 0;
reverse = 0;
format = 0;
traceroute = 0;
multicast = 0;
mc_addr = NULL;
ssm = -1;
skip_data = 0;
host3 = NULL;
thirdparty = 0;
ctlport3 = 0;
nbuf_bytes = 0;
rate_pps = 0;
brief = 0;
done = 0;
got_begin = 0;
two_bod = 0;
handle_urg = 0;
for ( stream_idx = 0; stream_idx <= nstream; stream_idx++) {
if (res[stream_idx]) {
  freeaddrinfo(res[stream_idx]);
  res[stream_idx] = NULL;
}
nretrans[stream_idx] = 0;
iretrans[stream_idx] = 0;
cwnd[stream_idx] = 0;
}
nstream = 1;
multilink = 0;
if (!oneshot)
goto doit;
exit(0);
}

if (multilink) {
for ( stream_idx = 2; stream_idx <= nstream; stream_idx++) {
  res[stream_idx] = NULL;
}
}
}

for ( stream_idx = 0; stream_idx <= nstream; stream_idx++) {
if (res[stream_idx]) {
  freeaddrinfo(res[stream_idx]);
  res[stream_idx] = NULL;
}
exit(0);

usage:
fprintf(stdout, Usage);
exit(1);
}

static void
err( char *s )
{
    long flags, saveflags;

    fprintf(stderr, "nuttcp%s%s: v%d.%d.%d%s: Error: ", trans?"-t":"-r", ident, vers_major, vers_minor, vers_delta, beta ? BETA_STR : "")
    perror(s);
    fprintf(stderr, "errno=%d
", errno);
    fflush(stderr);
    if ((stream_idx > 0) && !done &&
        clientserver && !client && !trans && & handle_urg) {
        /* send 'A' for ABORT as urgent TCP data
          * on control connection (don't block) */
        saveflags = fcntl(fd[0], F_GETFL, 0);
        if (saveflags != -1) {
            flags = saveflags | O_NONBLOCK;
            fcntl(fd[0], F_SETFL, flags);
        }
        send(fd[0], "A", 1, MSG_OOB);
        if (saveflags != -1) {
            flags = saveflags;
            fcntl(fd[0], F_SETFL, flags);
        }
    }
    exit(1);
}

static void
mes( char *s )
{
    fprintf(stdout, "nuttcp%s%s: v%d.%d.%d%s: %s
", trans?"-t":"-r", ident, vers_major, vers_minor, vers_delta, beta ? BETA_STR : ",", s);
}

static void
errmes( char *s )
{
    fprintf(stderr, "nuttcp%s%s: v%d.%d.%d%s: Error: ", trans?"-t":"-r",
    ident, vers_major, vers_minor, vers_delta,
    beta ? BETA_STR : "");
    perror(s);
    fprintf(stderr, "errno=%d\n", errno);
    fflush(stderr);
}

void
pattern( register char *cp, register int cnt )
{
    register char c;
    c = 0;
    while (cnt-- > 0) {
        while (!isprint((c&0x7F)))  c++;
        *cp++ = (c++&0x7F);
    }
}

void
get_timeofday( struct timeval *tv, struct timezone *tz )
{
    #ifdef HAVE_CLOCK_GETTIME
    struct timespec tod;
    clockid_t clk_id;

    #if defined(_POSIX_MONOTONIC_CLOCK) || defined(__CYGWIN__)
    if (do_owd) {
        clk_id = CLOCK_REALTIME;
    } else {
        clk_id = CLOCK_MONOTONIC;
    }
    #else/* !(defined(_POSIX_MONOTONIC_CLOCK) || defined(__CYGWIN__)) */
    clk_id = CLOCK_REALTIME;
    #endif/* defined(_POSIX_MONOTONIC_CLOCK) || defined(__CYGWIN__) */

    clock_gettime( clk_id, &tod );
    tv->tv_sec  = tod.tv_sec;
    tv->tv_usec = tod.tv_nsec / 1000;
    #else/* !HAVE_CLOCK_GETTIME */
    gettimeofday( tv, tz );
    #endif/* HAVE_CLOCK_GETTIME */

    return;
PREP_TIMER

void prep_timer()
{
    get_timeofday(&time0, (struct timezone *)0);
    timep.tv_sec = time0.tv_sec;
    timep.tv_usec = time0.tv_usec;
    timepk.tv_sec = time0.tv_sec;
    timepk.tv_usec = time0.tv_usec;
    getrusage(RUSAGE_SELF, &ru0);
}

READ_TIMER

double read_timer( char *str, int len )
{
    struct timeval timedol;
    struct rusage ru1;
    struct timeval td;
    struct timeval tend, tstart;
    char line[132];

    getrusage(RUSAGE_SELF, &ru1);
    get_timeofday(&timedol, (struct timezone *)0);
    prusage(&ru0, &ru1, &timedol, &time0, line);
    (void)strncpy( str, line, len );

    /* Get real time */
    tvsub( &td, &timedol, &time0 );
    realt = td.tv_sec + ((double)td.tv_usec) / 1000000;

    /* Get CPU time (user+sys) */
    tvadd( &tend, &ru1.ru_utime, &ru1.ru_stime );
    tvadd( &tstart, &ru0.ru_utime, &ru0.ru_stime );
    tvsub( &td, &tend, &tstart );
    cput = td.tv_sec + ((double)td.tv_usec) / 1000000;
    if (cput < 0.00001)  cput = 0.00001;
    return( cput );
}

static void
prusage( register struct rusage *r0, register struct rusage *r1, struct timeval *e, struct timeval *b, char *outp )
{
    struct timeval tdiff;
    register time_t t;
    register char *cp;
    register int i;
    int ms;

    t = (r1->ru_utime.tv_sec-r0->ru_utime.tv_sec)*100+
        (r1->ru_utime.tv_usec-r0->ru_utime.tv_usec)/10000+
        (r1->ru_stime.tv_sec-r0->ru_stime.tv_sec)*100+
        (r1->ru_stime.tv_usec-r0->ru_stime.tv_usec)/10000;
    ms = (e->tv_sec-b->tv_sec)*100 + (e->tv_usec-b->tv_usec)/10000;

    #define END(x) { while (*x++) ; }

    if (format & PARSE)
        cp = "user=%U system=%S elapsed=%E cpu=%P memory=%Xi+%Dd-%Mmaxrss io=%F+%Rpf swaps=%Ccsw";
    else
        cp = "%Uuser %Ssys %Ereal %P %Xi+%Dd %Mmaxrss %F+%Rpf %Ccsw";

    for ( ; *cp; cp++) {
        if (*cp != '%')
            *outp++ = *cp;
        else if (cp[1]) switch(*++cp) {
            case 'U':
                tvsub(&tdiff, &r1->ru_utime, &r0->ru_utime);
                sprintf(outp, "%ld.%01ld", (long)tdiff.tv_sec, (long)tdiff.tv_usec/100000);
                END(outp);
                break;

            case 'S':
                tvsub(&tdiff, &r1->ru_stime, &r0->ru_stime);
                sprintf(outp, "%ld.%01ld", (long)tdiff.tv_sec, (long)tdiff.tv_usec/100000);
                END(outp);
                break;

            case 'E':
                psecs(ms / 100, outp);
                END(outp);
                break;

            case 'P':
                sprintf(outp, "%d%%", (int) (t*100 / ((ms ? ms : 1))));
                END(outp);
                break;
        }
    }
}
case 'W':
i = r1->ru_nswap - r0->ru_nswap;
sprintf(outp, "%d", i);
END(outp);
break;

case 'X':
 sprintf(outp, "%ld", t == 0 ? 0 : (r1->ru_ixrss-r0->ru_ixrss)/t);
END(outp);
break;

case 'D':
 sprintf(outp, "%ld", t == 0 ? 0 :
            (r1->ru_idrss+r1->ru_isrss-(r0->ru_idrss+r0->ru_isrss))/t);
END(outp);
break;

case 'K':
 sprintf(outp, "%ld", t == 0 ? 0 :
            ((r1->ru_ixrss+r1->ru_isrss+r1->ru_idrss) -
             (r0->ru_ixrss+r0->ru_idrss+r0->ru_isrss))/t);
END(outp);
break;

case 'M':
 sprintf(outp, "%ld", r1->ru_maxrss/2);
END(outp);
break;

case 'F':
 sprintf(outp, "%ld", r1->ru_majflt-r0->ru_majflt);
END(outp);
break;

case 'R':
 sprintf(outp, "%ld", r1->ru_minflt-r0->ru_minflt);
END(outp);
break;

case 'T':
 sprintf(outp, "%ld", r1->ru_inblock-r0->ru_inblock);
END(outp);
break;

case 'O':
 sprintf(outp, "%ld", r1->ru_oublock-r0->ru_oublock);
END(outp);
break;
case 'C':
sprintf(outp, "%ld+%ld", r1->ru_nvcsw-r0->ru_nvcsw,
r1->ru_nivcsw-r0->ru_nivcsw);
END(outp);
break;
}
}
*outp = '\0';
}

static void
tvadd( struct timeval *tsum, struct timeval *t0, struct timeval *t1 )
{

tsum->tv_sec = t0->tv_sec + t1->tv_sec;
tsum->tv_usec = t0->tv_usec + t1->tv_usec;
if (tsum->tv_usec > 1000000)
tsum->tv_sec++, tsum->tv_usec -= 1000000;
}

static void
tvsub( struct timeval *tdiff, struct timeval *t1, struct timeval *t0 )
{

tdiff->tv_sec = t1->tv_sec - t0->tv_sec;
tdiff->tv_usec = t1->tv_usec - t0->tv_usec;
if (tdiff->tv_usec < 0)
tdiff->tv_sec--, tdiff->tv_usec += 1000000;
}

static void
psecs( long l, register char *cp )
{
    register int i;

    i = 1 / 3600;
    if (i) {
        sprintf(cp, "%d:\", i);
        END(cp);
    i = 1 % 3600;
    sprintf(cp, "%d:%d", (i/60) / 10, (i/60) % 10);
        END(cp);
    } else {
        i = 1;
        sprintf(cp, "%d", i / 60);
        END(cp);
    }
```c
i %= 60;
*cp++ = ':';
sprintf(cp, "%d%d", i / 10, i % 10);
}

/*
 * N R E A D
 */
int
Nread( int fd, char *buf, int count )
{
    struct sockaddr_storage from;
    socklen_t len = sizeof(from);
    struct timeval timed; /* time delta */
    register int cnt;
    if (udp) {
        cnt = recvfrom( fd, buf, count, 0, (struct sockaddr *)&from, &len );
        numCalls++;
    }
    else {
        if (b_flag)
            cnt = mread( fd, buf, count ); /* fill buf */
        else
            cnt = read( fd, buf, count );
        numCalls++;
    }
    if (do_owd && (cnt > 4)) {
        uint32_t secs, usecs;
        /* get transmitter timestamp */
        bcopy(buf + 8, &secs, 4);
        bcopy(buf + 12, &usecs, 4);
        timetx.tv_sec = htonl(secs);
        timetx.tv_usec = htonl(usecs);
        gettimeofday(&timerx, (struct timezone *)0);
        tvsub( &timed, &timerx, &timetx );
        owd = timed.tv_sec*1000 + ((double)timed.tv_usec)/1000;
        nowd++;
        if (owd < owd_min)
            owd_min = owd;
        if (owd > owd_max)
            owd_max = owd;
        owd_avg += owd;
        nowdi++;
        if (owd < owd_mini)
            owd_mini = owd;
        if (owd > owd_maxi)
```
owd_maxi = owd;
owd_avgi += owd;
}
return(cnt);

/
*N W R I T E
*/
int
Nwrite( int fd, char *buf, int count )
{
struct timeval timedol;
struct timeval td;
register int cnt = 0;
double deltat, delta0;
double pktdelay = 0;
int pktdelay_sec, pktdelay_usec, sssdelay;

if (irate) {
    sssdelay = 0;
    /* Get real time */
    get_timeofday(&timedol, (struct timezone *)0);
tvsub( &td, &timedol, &timepk );
deltat = td.tv_sec + ((double)td.tv_usec) / 1000000;

    if (deltat >= (1 + maxburst)*pkt_time) {
        timepk.tv_sec = timedol.tv_sec;
timepk.tv_usec = timedol.tv_usec;
irate_cum_nsec = 0;
deltat = 0.0;
nburst = 1;
    }

    if (nburst++ >= maxburst) {
        if (irateesss &&& cwndinfo) {
            /* note irateesss only supported for 1 stream */
tvsub( &td, &timedol, &time0 );
delta0 = td.tv_sec + ((double)td.tv_usec)
/ 1000000;
if (delta0 > which_rt*rtt/1000) {
    which_rt++;
sss_pkt_cwnd = (cwnd[1] + 1)*1024/datamss;
sss_pkt_cwnd *= 2;
}
pktdelay = rtt/1000/sss_pkt_cwnd*count/datamss;
if (pktdelay < 
    maxburst*(double)count/rate/125) {
pktdelay =
maxburst*(double)count/rate/125;
iratesss = 0;
}
else {
sssdelay = 1;
}
}
else {
pktdelay = maxburst*(double)count/rate/125;
}
while ((pktdelay > deltat) && !intr) {
/* Get real time */
gettimeofday(&timedol, (struct timezone *)0);
tvsub( &td, &timedol, &timepk );
deltat = td.tv_sec + ((double)td.tv_usec) / 1000000;
}
}

if (nburst > maxburst) {
if (sssdelay) {
pktdelay_sec = pktdelay;
pktdelay_usec = (pktdelay - pktdelay_sec) *1000000;
timepk.tv_usec += pktdelay_usec;
if (timepk.tv_usec >= 1000000) {
timepk.tv_usec -= 1000000;
timepk.tv_sec += 1;
}
timepk.tv_sec += pktdelay_sec;
}
else {
irate_cum_nsec += maxburst*irate_pk_nsec;
while (irate_cum_nsec >= 1000.0) {
irate_cum_nsec -= 1000.0;
timepk.tv_usec++;}
timepk.tv_usec += maxburst*irate_pk_usec;
while (timepk.tv_usec >= 1000000) {
timepk.tv_usec -= 1000000;
timepk.tv_sec++;
}
}
}
}
}

if (intr && (!udp || (count != 4))) return(0);
else {  
while (((double)nbytes/realt/125 > rate) {  
/* Get real time */
gettimeofday(&timedol, (struct timezone *)0); 
tvsub( &td, &timedol, &time0 );
realt = td.tv_sec + ((double)td.tv_usec) / 1000000;
if (realt <= 0.0) realt = 0.000001;
}
}
if (do_owd && (count > 4)) {
uint32_t secs, usecs;

/* record transmitter timestamp in packet */
gettimeofday(&timedol, (struct timezone *)0);
secs = htonl(timedol.tv_sec);
usecs = htonl(timedol.tv_usec);
bcopy(&secs, buf + 8, 4);
bcopy(&usecs, buf + 12, 4);
}
if (udp) {
again:
if (af == AF_INET) {
cnt = sendto( fd, buf, count, 0, (struct sockaddr *)&sinhim[stream_idx + 1], sizeof(sinhim[stream_idx + 1]) );
}
#ifdef AF_INET6
else if (af == AF_INET6) {
cnt = sendto( fd, buf, count, 0, (struct sockaddr *)&sinhim6[stream_idx + 1], sizeof(sinhim6[stream_idx + 1]) );
}
#endif
else {
err("unsupported AF");
}
numCalls++;
if (cnt<0 && errno == ENOBUFS) {
delay(18000);
erno = 0;
goto again;
}
#else defined(linux) && defined(DEBUG)
if (irate && (format & DEBUGIRATE) && debugout) {
struct timeval timewr;
double pktwrtime;
static int cnt = 0;

cnt++;
if (cnt == 1) {
fprintf(debugout, "count = %d, datamss = %d, "
"pktxmit = %.8f, "
"rtt = %.6f, maxburst = %d\n",
count, datamss,
(double)count/rate/125,
rtt/1000, maxburst);
}
gettimeofday(&timewr, (struct timezone *)0);
tvsub( &td, &timewr, &time0 );
pktwrtime = td.tv_sec + (double)td.tv_usec/1000000;
fprintf(debugout, "pktwrtime = %.6f, pktdelay = %.6f, "
"sss_pkt_cwnd = %d, "
"cur_pkt_cwnd = %d, iratesss = %d,"
"which_rt = %d\n",
pktwrtime, pktdelay,
sss_pkt_cwnd,
(cwnd[1] + 1)*1024/datamss, iratesss,
which_rt);
#endif
cnt = write( fd, buf, count );
numCalls++;
}
return(cnt);
}

int
delay( int us )
{
struct timeval tv;

tv.tv_sec = 0;

tv.tv_usec = us;
(void)select( 1, (fd_set *)0, (fd_set *)0, (fd_set *)0, &tv );
return(1);
}

/*
*M R E A D
*
* This function performs the function of a read(II) but will
* call read(II) multiple times in order to get the requested
* number of characters. This can be necessary because
* network connections don't deliver data with the same
* grouping as it is written with. Written by Robert S. Miles, BRL.
*/

int
mread( int fd, register char *bufp, unsigned n )
{  
    register unsigned count = 0;
    register int nread;
    
    do {  
        nread = read(fd, bufp, n-count);
        numCalls++;
        if (nread < 0) {  
            if (errno != EINTR)
                perror("nuttcp_mread");
            return(-1);
        }
        if (nread == 0)
            return((int)count);
        count += (unsigned)nread;
        bufp += nread;
    } while (count < n);
    
    return((int)count);
    }

    /*
     * M W R I T E
     *
     * This function performs the function of a write(II) but will
     * call write(II) multiple times in order to put the requested
     * number of characters. This can be necessary because
     * piped connections may not be able to deliver data with
     * the full requested count.
     */
    int mwrite(int fd, register char *bufp, unsigned n, int last_write)
    {
        register unsigned count = 0;
        register int nwrite;
        #if defined(linux)
            long flags;
            
            if (directio && last_write) {
                flags = fcntl(savestdout, F_GETFL, 0);
                if (flags < 0)
                    errmes("fcntl get O_DIRECT");
                else {
                    flags &= ~O_DIRECT;
                    if (fcntl(savestdout, F_SETFL, flags) < 0)
                        errmes("fcntl set O_DIRECT");
                }
            }
            
            /*
             * M W R I T E
             *
             * This function performs the function of a write(II) but will
             * call write(II) multiple times in order to put the requested
             * number of characters. This can be necessary because
             * piped connections may not be able to deliver data with
             * the full requested count.
             */
             int mwrite(int fd, register char *bufp, unsigned n, int last_write) 
             {
                register unsigned count = 0;
                register int nwrite;
                #if defined(linux)
                    long flags;
                    
                    if (directio && last_write) {
                        flags = fcntl(savestdout, F_GETFL, 0);
                        if (flags < 0)
                            errmes("fcntl get O_DIRECT");
                        else {
                            flags &= ~O_DIRECT;
                            if (fcntl(savestdout, F_SETFL, flags) < 0)
                                errmes("fcntl set O_DIRECT");
                        }
                    }
                
            }
defined

do {
  nwrite = write(fd, bufp, n-count);
  numCalls++;
  if (nwrite < 0) {
    if (errno != EINTR)
      perror("nuttcp_mwrite");
      return(-1);
  }
  count += (unsigned)nwrite;
  bufp += nwrite;
} while (count < n);
return((int)count);
}

/*
 * GETOPTVALP
 *
 * This function returns a character pointer to the option value
 * pointed at by argv and sets skiparg to 1 if the option and its
 * value were passed as separate arguments (otherwise it sets
 * skiparg to 0). index is the position within argv where the
 * option value resides if the option was specified as a single
 * argument. reqval indicates whether or not the option requires
 * a value
 *
 * char *
 * getoptvalp( char **argv, int index, int reqval, int *skiparg )
 { 
   struct sockaddr_storage dummy;
   char **nextarg;
   
   *skiparg = 0;
   nextarg = argv + 1;

   /* if there is a value in the current arg return it */
   if (argv[0][index])
     return(&argv[0][index]);

   /* if there isn't a next arg return a pointer to the
    * current arg value (which will be an empty string) */
   if (*nextarg == NULL)
     return(&argv[0][index]);

   /* if the next arg is another option, and a value isn't
    * required, return a pointer to the current arg value
    * (which will be an empty string) */
if ((**nextarg == '-') && !reqval)
return(&argv[0][index]);

/* if there is an arg after the next arg and it is another
  option, return the next arg as the option value */
if (*((nextarg + 1) && (**(nextarg + 1) == '-')) {
  *skiparg = 1;
  return(*nextarg);
}

/* if the option requires a value, return the next arg
  as the option value */
if (reqval) {
  *skiparg = 1;
  return(*nextarg);
}

/* if the next arg is an Ipv4 address, return a pointer to the
  current arg value (which will be an empty string) */
if (inet_pton(AF_INET, *nextarg, &dummy) > 0)
return(&argv[0][index]);

#ifdef AF_INET6
/* if the next arg is an Ipv6 address, return a pointer to the
  current arg value (which will be an empty string) */
if (inet_pton(AF_INET6, *nextarg, &dummy) > 0)
return(&argv[0][index]);
#endif

/* if the next arg begins with an alphabetic character,
  assume it is a hostname and thus return a pointer to the
  current arg value (which will be an empty string).
  note all current options which don't require a value
  have numeric values (start with a digit) */
if (isalpha((int)**nextarg))
return(&argv[0][index]);

/* assume the next arg is the option value */
*skiparg = 1;

return(*nextarg);
}

#define PROC_SNMP		"/proc/net/snmp"
#define PROC_BUF_LEN		256
#define PROC_BUF_LEN2		128
#define NETSTAT		"netstat"
```c
#if defined(linux)
#define RETRANS "segments retransmitted"
#define NETSTAT_DIR "/bin/"
#define NRETRANS_BEFORE
#elif defined(__FreeBSD__)
#define RETRANS "retransmitted"
#define NETSTAT_DIR "/usr/bin/"
#define NRETRANS_BEFORE
#elif defined(__APPLE__) && defined(__MACH__)
#define RETRANS "retransmitted"
#define NETSTAT_DIR "/usr/sbin/"
#define NRETRANS_BEFORE
#elif defined(sparc)
#define RETRANS "tcpRetransSegs"
#define NETSTAT_DIR "/usr/bin/"
#elif defined(sgi)
#define RETRANS "retransmitted"
#define NETSTAT_DIR "/usr/etc/"
#define NRETRANS_BEFORE
#elif defined(__CYGWIN__) || defined(_WIN32)
#define RETRANS "Segments Retransmitted"
#define NETSTAT_DIR ""
#else
#define RETRANS "retransmitted"
#define NETSTAT_DIR "/usr/bin/"
#define NRETRANS_BEFORE
#endif

char proc_buf[PROC_BUF_LEN];
char proc_buf2[PROC_BUF_LEN2];

int get_retrans( int sockfd, struct STRUCT_TCPINFO *tcpinfo )
{
    FILE *proc_snmp;
    char *cp, *cp2;
    int num_retrans;
    int pipefd[2];
    int pidstat;
    pid_t tid, tid = 0;
    pid_t twait_pid;

    if (retransinfo < 0)
        return(0);

    #if defined(linux) && defined(TCPI_OPT_TIMESTAMPS)
    if ((retransinfo <= 1) && (sockfd >= 0)) {
        optlen = sizeof(*tcpinfo);
        if (getsockopt(sockfd, SOL_TCP, TCP_INFO, (void *)tcpinfo,
```
&optlen) == 0) {
  if (optlen >= SIZEOF_TCP_INFO_RETRANS) {
    retransinfo = 1;
    cwndinfo = 1;
    b_flag = 1;
    return(tcpinfo->tcpi_total_retrans);
  }
}
if (retransinfo == 1) {
  retransinfo = -1;
  cwndinfo = 0;
  return(0);
}
retransinfo = 2;
cwndinfo = 0;
#else
retransinfo = 2;
cwndinfo = 0;
#endif
if ((retransinfo == 3) || (!(proc_snmp = fopen(PROC_SNMP, "r"))))) {
  retransinfo = 3;
cwndinfo = 0;
if (pipe(pipefd) != 0) {
  retransinfo = -1;
cwndinfo = 0;
  return(0);
}
if ((pid = fork()) == (pid_t)-1) {
  perror("can't fork");
close(pipefd[0]);
close(pipefd[1]);
retransinfo = -1;
cwndinfo = 0;
  return(0);
}
if (pid == 0) {
  signal(SIGINT, SIG_DFL);
close(1);
close(2);
dup(pipefd[1]);
dup(pipefd[1]);
close(pipefd[0]);
close(pipefd[1]);
execl(NETSTAT_DIR NETSTAT, NETSTAT, "-s", NULL);
perror("execl failed");
fprintf(stderr, "failed to execute %s\n", NETSTAT_DIR NETSTAT, "-s", NULL);
}
if (pid == 0) {
  signal(SIGINT, SIG_DFL);
close(1);
close(2);
dup(pipefd[1]);
dup(pipefd[1]);
close(pipefd[0]);
close(pipefd[1]);
execl(NETSTAT_DIR NETSTAT, NETSTAT, "-s", NULL);
perror("execl failed");
fprintf(stderr, "failed to execute %s\n", NETSTAT_DIR NETSTAT, "-s", NULL);
NETSTAT_DIR, NETSTAT);
fflush(stdout);
fflush(stderr);
exit(0);
}
close(pipefd[1]);
if (!(proc_snmp = fdopen(pipefd[0], "r"))) {
close(pipefd[0]);
retransinfo = -1;
cwndinfo = 0;
return(0);
}
errno = 0;
um_retrans = -1;
while (fgets(proc_buf, sizeof(proc_buf), proc_snmp)) {
  if (retransinfo == 2) {
    if (strncmp(proc_buf, "Tcp:", 4) != 0)
      continue;
    if (!fgets(proc_buf2, sizeof(proc_buf2), proc_snmp))
      break;
    cp = proc_buf;
    cp2 = proc_buf2;
    while ((cp = strchr(cp, ' '))){
      while (*++cp == ' ')
        ;
      if (!(int)(*cp))
        goto close;
      if (!isdigit((int)(*cp2)))
        goto close;
      while (*++cp2 == ' ')
        ;
      if (!(int)(*cp2))
        goto close;
      if (strncmp(cp, "RetransSegs", 11) == 0) {
        if (!(int)(*cp2))
          goto close;
        if (!isdigit((int)(*cp2)))
          goto close;
        num_retrans = atoi(cp2);
        goto close;
      }
      else
        continue;
    }
  }
}
else {
  if ((cp = strstr(proc_buf, RETRANS)))
    ...
#ifdef NRETRANS_BEFORE
num_retrans = atoi(proc_buf);
#else
cp2 = strchr(cp, '=');
    cp2++;
num_retrans = atoi(cp2);
#endif
break;
}
}
}

close:
fclose(proc_snmp);
if (retransinfo == 3) {
    while ((wait_pid = wait(&pidstat)) != pid) {
        if (wait_pid == (pid_t)-1) {
            if (errno == ECHILD)
                break;
        err("wait failed");
    }
}

if (num_retrans < 0) {
    retransinfo = -1;
    cwndinfo = 0;
    return(0);
}

return(num_retrans);
}

#elif defined(linux) && defined(TCPI_OPT_TIMESTAMP)

void
print_tcpinfo()
{
    fprintf(stdout, "state = %d, ca_state = %d, retransmits = %d, "
    "unacked = %d, sacked = %d\n",
    tcpinf.tcpinfo_state, tcpinf.tcpinfo_ca_state,
    tcpinf.tcpinfo_retransmits, tcpinf.tcpinfo_unacked,
    tcpinf.tcpinfo_sacked);
    fprintf(stdout, "           lost = %d, retrans = %d, fackets = %d, "
    "rtt = %d, rttvar = %d\n",
    tcpinf.tcpinfo_lost, tcpinf.tcpinfo_retrans,
    tcpinf.tcpinfo_fackets, tcpinf.tcpinfo_rtt,
    tcpinf.tcpinfo_rttvar);
}
fprintf(stdout, "           snd_ssthresh = %d, snd_cwnd = %d, \\
" "total_retrans = %d\n",
  tcpinf.tcpinfo_snd_ssthresh, tcpinf.tcpinfo_snd_cwnd,
  tcpinf.tcpi_total_retrans);
  return;
}
#endif

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websocket - WebSocket client library for Python

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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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executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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