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1.1 Alertmanager 0.15.1

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Protocol Buffers for Go with Gadgets

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1.6 channels 1.1.0

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1.8 elasticsearch 6.0.0

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snakeyaml NOTICE

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

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

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

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

## Info ##

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

## Contribute ##

* 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 report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
* You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).

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The following is a list of people who have contributed ideas, code, bug
reports, or in general have helped curator along its way.

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* Jordan Sissel (jordansissel) (For Logstash, first and foremost)
* Shay Banon (kimchy) (For Elasticsearch, of course!)
* Aaron Mildenstein (untergeek)
* Njal Karevoll
* Francois Deppierraz
* Honza Kral (HonzaKral)
* Benjamin Smith (benjaminws)
* Colin Moller (LeftyBC)
* Elliot (edgeofnite)
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Protocol Buffers for Go with Gadgets

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

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1.25 **go-netns 13995c7**

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1.26 go-radix 7fddfc3

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1.27 go-semver 0.2.0

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1.28 go-spf13-jwalterweatherman 14d3d4c

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1.29 go-tomb v2

1.29.1 Available under license:

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1.30 go-toml 1.2.0
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1.31 go.uuid master :36e9d2e
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1.32 gopkg.in/yaml.v2 v2.2.1

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

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

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

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

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

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

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1.41 kernel-rt 3.10.0.957.5.1.rt56.916.el7

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* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
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* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

Linux driver for the IDT77201 NICStar PCI ATM controller.
PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
see init_nicstar() for PHY initialization to change this. This driver
expects the Linux ATM stack to support scatter-gather lists
(skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

Implementing minimal-copy of received data:
  IDT always receives data into a small buffer, then large buffers
as needed. This means that data must always be copied to create
the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  Fix is simple: make large buffers large enough to hold entire
SDU, and leave <small_buffer_data> bytes empty at the start. Then
copy small buffer contents to head of large buffer.
  Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:
  1) skb->destructor / skb->atm.recycle_buffer
     combined, allow nicstar_free_rx_skb to be called to
     recycle large data buffers
  2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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M. Welsh, 6 July 1996
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{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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}

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

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

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

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

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

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

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

Andreas Oberritter <obi@linuxtv.org>
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Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

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the module unloading problems, ...

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

(If you think you should be in this list, but you are not, drop a
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1.46 magiconair/properties 1.8.0
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1.47 mapstructure f15292f

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1.49 networking-generic-switch 1.0.0

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1.52 pflag 1.0.2

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#
# Auto-generated with:
#    git log --oneline --pretty=format:'%an <%aE>' | sort -u
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name.omitempty"`
URL  string `json:"urlomitempty"`
}

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

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1.55 protobuf aa810b6

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1.56 PyNaCl 1.3.0
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1.57 python-attrdict 2.0.0

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1.58 python-chardet 3.0.4

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1.60 python-click 6.7 :1
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1.61 python-dns 1.15.0 :1
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1.62 python-engineio 1.2.3

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1.63 python-etcd 0.4.5

1.64 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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1.65 python-pygments 1.4 :10.el7
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(lp1
(ccopy_reg
_reconstructor
p2
(cpygments.token
__TokenType
p3
c__builtin__
tuple
p4

(S'Text'
p5
(ttrp6
(dp7
S'subtypes'
p8
c__builtin__
set
p9
((lp10
g2
(g3
(g4
(g5
S'Symbol'
p11
(ttrp12
(dp13
g8
g9
((ltrp14
s'S'parent'
p15
g6
sbag2
(g3
(g4
(g5
S'Whitespace'
p16
(ttrp17
(dp18
g8
g9
((ltrp19
sg15
g6
sbatrp20
sg11
g12
sg16
g17
sg15
g2
(g3
(g4
(ttrp21
(dp22
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1789
Open Source Used In Virtualized Infrastructure Manager 3.2.0

1802
Open Source Used In Virtualized Infrastructure Manager 3.2.0

1808
V# New ports collection makefile for: python25
V# Date created: 3 July 2003
V# Whom: Hye-Shik Chang <perky@FreeBSD.org>
Open Source Used In Virtualized Infrastructure Manager 3.2.0

1813
Open Source Used In Virtualized Infrastructure Manager 3.2.0

1814

Interpreted

Object-oriented

Programming

Language
a(g6 V--build p505 tp506 a(g353 V= tp507 a(g138 V$\{ p508 tp509 a(g100 VMACHINE_ARCH p510 tp511 a(g138 V} tp512 a(g6 V-portbld-freebsd p513 tp514 a(g138 V$\{ p515 tp516 a(g100 VOSREL p517 tp518 a(g138 V} tp519 a(g6 V\u000a tp520 a(g100 VCONFIGURE_SCRIPT p521 tp522 a(g353 V= tp523 a(g6 V tp524 a(g6 V../configure
V# must be relative

VCONFIGURE_ENV

VOPT

VSVNVERSION

"echo freebsd"
VMAKE_ENV
p546
tp547
agt353
V=
tp548
agt6
V
tp549
agt100
VVPATH
p550
tp551
agt353
V=
tp552
agt255
V"${PYTHON_WRKSRC}" p553
tp554
agt6
Vuu000a
tp555
agt100
VINSTALLS_SHLIB
p556
tp557
agt353
V=
tp558
agt6
V
tp559
agt6
Vyes
p560
tp561
agt6
Vuu000a
tp562
agt100
VINSTALL_TARGET
p563
tp564
agt353
V=
tp565
agt6

V =
tp608
a(g6
V
tp609
a(g138
V$
 p610
tp611
a(g100
VPYTHON_WRKSRCP612
tp613
a(g138
V}
tp614
a(g6
V/portbld.shared
 p615
tp616
a(g6
Vuu000a
 tp617
a(g100
VPLISTp618
tp619
a(g353
V =
tp620
a(g6
V
 p621
tp622
a(g138
V$
 p623
tp624
a(g100
VWRKDIRp625
tp626
a(g138
V}
tp627
a(g6
V/PLIST
 p628
VPLIST_TEMPLATE?

V${

VPKGDIR

V.UTF000a

V

V$
p649
p650
a(g100
VPYTHON_VERSION
p651
tp652
a(g212
V:
tp653
a(g100
VS
tp654
a(g212
V/python//

p655

tp656
a(g138
V]
tp657
a(g6
V
tp658
a(g262
V\u005c\u000a

p659

tp660
a(g6
V
p661
tp662
a(g100
VPYVER_WITHPAT
p663
tp664
a(g353
V=
tp665
a(g138
V$}
p666
tp667
a(g100
VPORTVERSION
p668
tp669
a(g212
V:
tp670
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1825
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1827
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1828

V

python-shared-config

V

BINLINKS_SUB

V=s,smtpd,smtpd${PYTHON_VER},'

V
V-e
p754
tp755
a(g6
V
tp756
a(g281
V's.(idle|pydoc|python-shared|python),\u005c1${PYTHON_VER},'p757
tp758
a(g6
V\u0000a\u0000a
p759
tp760
a(g100
VOPTIONS
p761
tp762
a(g353
V=
tp763
a(g6
V
tp764
a(g6
VTHREADS
p765
tp766
a(g6
V
tp767
a(g255
V"Enable thread support"
p768
tp769
a(g6
V
tp770
a(g6
Von
p771
tp772
a(g6
V
tp773
a(g262
V\u0005c\u0000a
p774
VHUGE_STACK_SIZE

"Use a larger thread stack"

"Use UCS4 for unicode support"
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1831

Use python's internal malloc
"Enable IPv6 support"

"Enable floating point exception handling"
V.include <bsd.port.pre.mk>

if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}

VMLINKS

if '${PYTHON_VERSION}' == '${PYTHON_DEFAULT_VERSION}'

VPYTHON_VERSION


tp861
a(g6
VPLIST_SUB+
p862
tp863
a(g353
V=
tp864
a(g6
V
tp865
a(g100
VIF_DEFAULT
p866
tp867
a(g353
V=
tp868
a(g255
V=""
p869

tp870
a(g6
V\uu000a

tp871
a(g27
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=
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1835

V"@comment 
V.endif
V.endif
V.

V# workaround for a bug in base curses.h

VCFLAGS+

V-D__wchar_t

Vwchar_t
V.if !defined(WITHOUT_THREADS)

$p902
$tp903
$a(g6
$V
$tp904
$a(g6
$VCONFIGURE_ARGS+
$\text{p}905$
$\text{tp}906$
$a(g353
$V=$
$\text{tp}907$
$a(g6
$V$
$\text{tp}908$
$a(g6
$V--with-threads$
$\text{p}909$
$\text{tp}910$
$a(g6
$V\text{u}000a$
$\text{tp}911$
$a(g6
$VCFLAGS+$
$\text{p}912$
$\text{tp}913$
$a(g353
$V=$
$\text{tp}914$
$a(g6
$V$
$\text{p}915$
$\text{tp}916$
$a(g138
$V$
$\text{p}917$
$\text{tp}918$
$a(g100
$VPTHREAD_CFLAGS$
$\text{p}919$
$\text{tp}920$
$a(g138
$V$
$\text{tp}921$
$a(g6
$V\text{u}000a$
$\text{tp}922$
a(g27
V. if defined(WITHOUT_HUGE_STACK_SIZE)u000a
p923
p924
a(g6
V
p925
a(g6
VCFLAGS+
p926
tp927
a(g353
V=
tp928
a(g6
V
p929
p930
a(g6
V-DTHREAD_STACK_SIZE
p931
p932
a(g353
V=
tp933
a(g6
V0x20000
p934
p935
a(g6
V\u000a
p936
a(g27
V. else\u000a
p937
p938
a(g6
V
p939
a(g6
VCFLAGS+
p940
p941
a(g353
V=
p942
a(g6
V
V-DTHREAD_STACK_SIZE

V0x100000

VCONFIGURE_ENV+

V"${PTHREAD_LIBS} ${LDFLAGS}"
a(g27
V.else'\u0000a
p965
tp966
a(g6
V
tp967
a(g6
VCONFIGURE_ARGS+
p968
tp969
a(g353
V=
tp970
a(g6
V
tp971
a(g6
V--without-threads
p972
tp973
a(g6
V'\u0000a
tp974
a(g27
V.if defined(LDFLAGS)'\u0000a
p975
tp976
a(g6
V
tp977
a(g6
VCONFIGURE_ENV+
p978
tp979
a(g353
V=
tp980
a(g6
V
p981
tp982
a(g100
VLDFLAGS
p983
tp984
a(g353
V=
V"$\{LDFLAGS}\"
V.if defined(WITHOUT_PYmalloc),

V.--without-pymalloc

V.if ${ARCH} == i386

V endif

V endif

V endif

V endif

V endif

V endif

V endif

V endif

V endif

V endif

V endif
if ${ARCH} == sparc64

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VCFLAGS+
p1088
tp1089
atg353
V=
tp1090
atg6
V
p1091
tp1092
atg6
V-PYTHON_DEFAULT_RECURSION_LIMIT
p1093
tp1094
atg353
V=
tp1095
atg6
V900
p1096
tp1097
atg6
V\u000a
atg27
V.endif\u000a
p1099
tp1100
atg6
V\u000a
atg27
V.if !exists(/usr/bin/ypcat) # the world with NO_NIS\u000a
p1102
atg6
V
atg6
VPLIST_SUB+
p1105
tp1106
atg353
V=
tp1107
atg6
V
tp1108
a(g100
VNO_NIS
p1109
tp1110
a(g353
V=
tp1111
a(g255
V"@comment "
p1112
tp1113
a(g6
V\u000a
tp1114
a(g27
V.else\u000a
p1115
tp1116
a(g6
V
tp1117
a(g6
VPLIST_SUB+
p1118
tp1119
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
V\u000a
tp1127
a(g27
V.endi\u000a
p1128
tp1129
a@g6
V\u000a

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\u000a

tp1140
a@g27
V.else\u000a
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
a(g6
V
tp1160
a(g6
V--with-fpectl
 p1161
tp1162
a(g6
V\u0000a
tp1163
a(g27
V.endif\u0000a
p1164
tp1165
a(g6
V\u0000a
tp1166
a(g27
V.if ${OSVERSION} >= 700000\u0000a
p1167
tp1168
a(g6
V
elif ${OSVERSION} >= 600000a

V

V

V
V
a(g6
Vplat-freebsd5
p1191
tp1192
a(g6
V
tp1193
a(g6
Vplat-freebsd7
p1194
tp1195
a(g6
\u000aV\u000a
a(g27
V.else\u000a
p1197
tp1198
a(g6
V
tp1199
a(g100
VPLATFORMS
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
pre-patch:
VMKDIR
VMWRKSRC
VSHARED_WRKSRVC

O

ey

V/Modules

V$ { $'

V"'$

V-e

V'

V1s.'^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'

V'u005c'u000a

V'u000a

V1s.'^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'
Open Source Used In Virtualized Infrastructure Manager 3.2.0
1853

V/Tools/scripts/pydoc
V/\w000a

V/Tools/scripts/pydoc

V/\w000a

V/Tools/scripts/pydoc

V/\w000a
Open Source Used In Virtualized Infrastructure Manager 3.2.0

1854

V$1s,^"$#,#!${PREFIX}/bin/${PYTHON_VERSION},'

V\u005c\u000a

V$1s,^"$#,#!${PREFIX}/bin/${PYTHON_VERSION},'

VPATCH_WRKSRV
VWRKDIR
p1338
tp1339
a(g138
V)
tp1340
a(g6
V/smtpd2.5.py
p1341
tp1342
a(g6
V\u0000a
p1343
tp1344
a(g138
V$
\p1345
tp1346
a(g100
VREINPLACE_CMD
p1347
tp1348
a(g138
V)
tp1349
a(g6
V


V
a(g262
\u0005\u000a p1361
tp1362
a(g6
V
p1363
tp1364
a(g138
V$
\u0005\u000a p1365
tp1366
a(g100
VPATCH_WRKSRCP1367
tp1368
a(g138
V}
tp1369
a(g6
V/Lib/pydoc.py
p1370
tp1371
a(g6
\u0005 p1372
tp1373
a(g138
V$
\u0005 p1374
tp1375
a(g100
VREINPLACE_CMD
p1376
tp1377
a(g138
V}
tp1378
a(g6
V
tp1379
a(g6
V-e
p1380
tp1381
a(g6
V
a(g262
V\u005c\u000a
p1383
tp1384
a(g6
V
p1385
tp1386
a(g281
V's|^\( *prefixes = .*\u005c\u000c|]$\u005c\u000c1, "$[X11BASE]"]|g'
p1387
tp1388
a(g6
V
p1389
tp1391
a(g6
V
p1392
tp1393
a(g138
V$
   p1394
tp1395
a(g100
VPATCH_WRKSR
   p1396
tp1397
a(g138
V}
   tp1398
a(g6
V/Lib/site.py
   p1399
tp1400
a(g6
V\u000a
   p1401
tp1402
a(g138
V$
   p1403
tp1404
a(g100
VREINPLACE_CMD
p1405
tp1406
a(g138
V}
tp1407
a(g6
V
tp1408
a(g6
V-e
p1409
tp1410
a(g6
V
tp1411
a(g262
V\u0005\u000a
p1412
tp1413
a(g6
V
p1414
tp1415
a(g281
V's|^	\(ASDLGEN,.*\u0005c)$$|$[TRUE]|g'
p1416
tp1417
a(g6
V
tp1418
a(g262
V\u0005\u000a
p1419
tp1420
a(g6
V
p1421
tp1422
a(g138
V$
$p1423
tp1424
a(g100
VPATCH_WRK_SRC
p1425
tp1426
V\u000a

V-e

V's|*

V's|\u005c.*\u005c)python-config$$|#port \u005c1'
V's[^!]+!${PREFIX}/bin/${PYTHON_VERSION}'}

V\u005c\u000a

V/Misc/python-config.in

VWRKDIR
Open Source Used In Virtualized Infrastructure Manager 3.2.0

```
if defined(WITH_FPECTL) && ${ARCH} == i386
VMKDIR
```

---

Open Source Used In Virtualized Infrastructure Manager 3.2.0

1866
V/Makefile
p1744
tp1745
a(g6
V\u000a\u000a
p1746
tp1747
a(g6
Vpre-build:
p1748
tp1749
a(g6
V\u000a
p1750
tp1751
a(g84
Vcd
p1752
tp1753
a(g6
V
p1754
a(g138
V${

VSHARED_WRKSRC
p1757
tp1758
a(g138
V}
tp1759
a(g6
V;
tp1760
a(g6
V
p1761
a(g262
V\u005c\u000a
p1762
tp1763
a(g6
V
p1764
a(g138
V${

Open Source Used In Virtualized Infrastructure Manager 3.2.0
1876
a(g100
VPYTHON_VERSION
p1787
tp1788
a(g138
V]
tp1789
a(g6
V.so
p1790
tp1791
a(g6
V
tp1792
a(g6
Vpython;
p1793
tp1794
a(g6
V
tp1795
a(g262
V\\u005c\\u000a
p1796
tp1797
a(g6
V
tp1798
a(g138
VS\{ 
p1799
tp1800
a(g100
VLN
p1801
tp1802
a(g138
V]
tp1803
a(g6
V
tp1804
a(g6
V-f
p1805
tp1806
a(g6
V
for platform in ${PLATFORMS}: 

V$VMKDIR

V$PYTHONPREFIX_LIBDIR
for file in IN.py regen
for file in IN.py regen
V
V

for file in IN.py regen

for file in IN.py regen

V
V
V
V
V
Open Source Used In Virtualized Infrastructure Manager 3.2.0

1883

1891
agi6
V/Lib/
p1892
tp1893
agi138
V$

p1894
tp1895
agi100
Vplatform

p1896
tp1897
agi138
V$

p1898
tp1899
agi6
V/
p1900
tp1901
agi100
Vfile

p1902
tp1903
agi138
V$

p1904
tp1905
agi6
V

p1906
tp1907
agi6
V

p1908
tp1909
agi138
V$

p1910
tp1911
agi100
VPYTHONPREFIX_LIBDIR

p1912
VPLIST_TEMPLATE

V'

V
if openssl 0.9.8 is detected, _sha[256,512] module won't be installed
Open Source Used In Virtualized Infrastructure Manager 3.2.0

1887

tp1973
a(g138
VS{
p1974
tp1975
a(g100
VWRKSRC
p1976
tp1977
a(g138
V}
tp1978
a(g6
V/.without_own_sha
p1979
tp1980
a(g6
V
tp1981
a(g353
V]
tp1982
a(g6
V
tp1983
a(g353
V&
p1984
tp1985
a(g6
V
tp1986
a(g262
V\u005c\u000a
p1987
tp1988
a(g6
V
p1989
tp1990
a(g138
VS{
p1991
tp1992
a(g100
VGREP
p1993
tp1994
post-install:

```bash
#!/bin/bash

# install config providers

INSTALL_SCRIPT

WRKDIR
```
a(g138
V$p2077
 tp2078
 a(g100
 VPYTHON_VERSION
 p2079
 tp2080
 a(g138
 V }
 tp2081
 a(g6
 V-config
 p2082
 tp2083
 a(g6
 V 
 tp2084
 a(g138
 V$p2085
 tp2086
 a(g100
 VPREFIX
 p2087
 tp2088
 a(g138
 V }
 tp2089
 a(g6
 V/bin
 p2090
 tp2091
 a(g6
 V/u000a
 p2092
 tp2093
 a(g138
 V$p2094
 tp2095
 a(g100
 VINSTALL_SCRIPT
 p2096
 tp2097
 a(g138
 V }
 tp2098
a(g6
V
 tp2099
a(g138
VS{
p2100
tp2101
a(g100
VWRKDIR
p2102
tp2103
a(g138
V}
tp2104
a(g6
V/
tp2105
a(g138
VS{
p2106
tp2107
a(g100
VPYTHON_VERSION
p2108
tp2109
a(g212
V:
tp2110
a(g100
VS
tp2111
a(g212
V/thon/thon-shared/
p2112
tp2113
a(g138
V}
tp2114
a(g6
V-config
p2115
tp2116
a(g6
V
 tp2117
a(g138
VS{
p2118
Open Source Used In Virtualized Infrastructure Manager 3.2.0

1894

```
V@# shared version of executable and library

VINSTALL_PROGRAM

VSHARED_WRKSRC
```
Vlib
p2184
tp2185
at(g138
VS{
p2186
tp2187
at(g100
VPYTHON_VERSION
p2188
tp2189
at(g138
V}
tp2190
at(g6
V.so.1
p2191
tp2192
at(g6
V
p2193
at(g262
V\u005cu005cu000a
p2194
tp2195
at(g6
V
p2196
tp2197
at(g6
Vlib
p2198
tp2199
at(g138
VS{
p2200
tp2201
at(g100
VPYTHON_VERSION
p2202
tp2203
at(g138
V}
tp2204
at(g6
V.so
p2205
tp2206
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1898

...
V
p2250
tp2251
atg138
VS{
p2252
tp2253
atg100
V$\}
p2254
tp2255
atg138
V}
 tp2256
atg6
V/
 tp2257
atg138
VS{
p2258
tp2259
atg100
VPYTHON_VERSION
p2260
tp2261
atg212
V:
 tp2262
atg100
VS
 tp2263
atg212
V/thon/thon-shared/
p2264
tp2265
atg138
V}
 tp2266
atg6
V
 tp2267
atg262
V\u005c\u000a
p2268
tp2269
atg6
V
 p2270
Vfor
p2380
tp2381
agt6
Vf
tp2382
agt6
V
tp2383
agt6
Vin
p2384
tp2385
agt6
V
tp2386
agt138
V$

p2387
tp2388
agt100

VBIN_SCRIPTS
p2389
tp2390
agt138
V}
tp2391
agt6
V;
tp2392
agt6
V

tp2393
agt138
Vdo
p2394
tp2395
agt6
V

tp2396
agt262
V\u005c\u000a
p2397
tp2398
agt6
V

p2399
tp2400
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1.66 python-PyJWT 1.5.3 :1

1.66.1 Available under license :

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1.67 python-pyudev 0.21.0 :1
1.67.1 Available under license :

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Version 2.1, February 1999

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1.69 python-tabulate 0.7.5

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1.70 PyYAML 3.13

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1.71 pyzmq 16.0.2

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1.76 requests 2.18.4

1.77 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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### 1.78 setuptools 40.6.2

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1.82 sys 1c95834

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* ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
* FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
* for more details.
*
* Based on ntcp
* Developed by Bill Fink, billfink@mindspring.com
* and Rob Scott, rob@hpcmo.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 -Wsmsleading-indentation
* 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[s][##][##]" (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)
* 8.0.1, Bill Fink, 22-Aug-16
* Add reporting of TCP congestion window
  * 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 nuttcp 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 -DHAVE_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 freeaddrinfo() 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 nuttcp)
  * 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 nuttcp introduced in 6.2.4 (not honoring oneshot)
* Whitespace cleanup: get rid of \(<tab><spaces><tab>, <tab>$, & <spaces>$
* Whitespace cleanup: convert 8 spaces to <tab> where appropriate
  * 6.2.7, Bill Fink, 22-May-09
* Allow rate limit to be exceeded temporarily by n packets ("-Rixx/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
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* 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 "-fparsenot just a server option
* 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. ".-i1472" or ".-i8972"
* Don't report interval host-retrans if no data rcvd (e.g. initial PMTU)
* Correct reporting of retrans info with ".-fparsenot just a server 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 "-l" 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: nuttcp ctl/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
* 5.3.1, 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|t|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 "-Sf" 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 "-5P" 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 ".parse" 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 ifndefs 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 ifndef 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
  * v3.2.1, 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 
  * 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 buffen up to MAXUDPBUFFLEN
  * Provide -b option for braインド 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
*/
/
/*
#define lint
static char RCSid[] = "@(#)\$Revision: 1.2 $ (BRL)";
#endif
*/
#endif NOT_LINUX
#undef linux
#endif
#ifndef WANT_WUR
#undef _FORTIFY_SOURCE
#else
#define _FORTIFY_SOURCE		2
#endif

#define _FILE_OFFSET_BITS	64

#if defined(linux)
#define _GNU_SOURCE
#endif

#include <stdio.h>
#include <signal.h>
#include <ctype.h>
#include <errno.h>
#include <sys/types.h>
#include <sys/time.h>	/* struct timeval */
#include <stdlib.h>
#ifndef _WIN32
#include <sys/socket.h>
#include <netinet/in.h>
#include <netinet/tcp.h>
#include <arpa/inet.h>
#include <netdb.h>
#include <sys/resource.h>
#else
#include "win32nuttcp.h" /* from win32 */
#endif /* _WIN32 */

#if defined(linux) || defined(__FreeBSD__) || defined (sgi) || (defined(__MACH__) && defined(_SOCKLEN_T)) || defined(sparc) || defined(__CYGWIN__) */
/* 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 */
*/
#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(__CYGWIN__) && !defined(_WIN32)
define HAVE_SETPRIOR
#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

#if defined(__CYGWIN__) && !defined(WIN32)
define HAVE_SETPRIO
#endif

#if defined(linux)
define HAVE_SETAFFINITY
#endif

#if !defined(__CYGWIN__) && (!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

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

#if !defined(ULLONG_MAX)
define ULLONG_MAX 18446744073709551615ULL
#endif

#define MAXRATE 0xffffffffUL

#if !defined(__CYGWIN__) && !defined(WIN32)
define HAVE_SETPRIOR
#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

#if !defined(HAVE_POLL)
#include <sys/poll.h>
#else
#include "fakepoll.h" /* from missing */
#endif
#endif

#ifndef CPU_SETSIZE
#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]))) == 0
  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 rusage ru0; /* Resource utilization at the start */
static struct sigaction sigact; /* signal handler for alarm */
static struct sigaction savesigact;

#define PERF_FMT_OUT "%.4f MB in %.2f real seconds = %.2f KB/sec"
#define PERF_FMT_BRIEF "%.10f MB / %.6f sec = %.9f Mbps %d %%%RX %d %%%TX %d %%%s"
#define PERF_FMT_BRIEF2 "%.10f MB / %.6f sec = %.9f Mbps %d %%%s"
#define PERF_FMT_BRIEF3 "Trans: %.4f MB"
#define PERF_FMT_INTERVAL "%.10f MB / %.6f sec = %.9f Mbps"
#define PERF_FMT_INTERVAL2 "Tot: %.10f MB / %.6f sec = %.9f Mbps"
#define PERF_FMT_INTERVAL3 "Trans: %.10f MB"
#define PERF_FMT_INTERVAL4 "Tot: %.10f MB"
#define PERF_FMT_IN "%lf MB in %lf real seconds = %lf KB/sec = %lf Mbps"
#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 "%.5f ~%%loss"
#define LOSS_FMT5 "%.5f %%% data loss"
#define LOSS_FMT_BRIEF5 "%.5f %%%loss"
#define LOSS_FMT_INTERVAL5 "%.7f ~%%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 1
#define JITTER_AVG 2
#define JITTER_MAX4
#define JITTER_IGNORE_OOO8
#define JITTER_FMT "min-jitter = %.4f ms, avg-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_MIN_FMT_INTERVAL " %.4f msMinJitter"
#define JITTER_AVG_FMT_INTERVAL " %.4f msAvgJitter"
#define JITTER_MAX_FMT_INTERVAL " %.4f msMaxJitter"
#define JITTER_FMT_IN	"jitter = %lf ms, avg-jitter = %lf ms, " \
"max-jitter = %lf ms"
#define OWD_MIN1
#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_MIN_FMT_INTERVAL " %.4f msMinOWD"
#define OWD_AVG_FMT_INTERVAL " %.4f msAvgOWD"
#define OWD_MAX_FMT_INTERVAL " %.4f msMaxOWD"
#define OWD_FMT_IN"OWD = %lf ms, avg-OWD = %lf ms, max-OWD = %lf ms"
#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_INB"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
#endif NEW_TCP_INFO
/* Parsable output formats */

#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"
#define P_PERF_FMT_INTERVAL2 " total_megabytes=%.4f total_real_sec=%.2f"
 " total_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 "%lf %lf %lf %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_JITTER_FMT_IN "jitter=%lf msavgjitter=%lf msmaxjitter=%lf"
#define P_OWD_FMT "msminOWD=%.4f msavgOWD=%.4f msmaxOWD=%.4f"
#define P_OWD_MIN_FMT_BRIEF " msminOWD=%.4f"
#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\n"
#define MAXSTREAM
#define DEFAULT_NBUF 2048
#define DEFAULT_NBYTES 134217728 /* 128 MB */
#define DEFAULT_TIMEOUT 10.0
#define DEFAULT_UDP_RATE 1000
#define DEFAULT_UDPBUFFERLEN 8192
#define DEFAULT_MC_UDPBUFFERLEN 1024
#define MAXUDPBUFFERLEN 65507
#define LOW_RATE_HOST 31000
#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::8000:0000"
#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
#ifndef SERVER_RETRY_USEC500000/* 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 IDLE_DATA_MAX 60.0 /* maximum value for chk_idle_data */
#define IDLE_DATA_MIN15.0/* minimum 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_RETRANS_STREAMS 0x2 /* brief per stream retrans info */
#define BRIEF_CWND_STREAMS 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 NOPERCENTLOSS 0x10 /* don't give percent loss for ":-i" */
#define DEBUGPOLLOUT 0x20 /* add info to assist with debugging */
#define DEBUGRETRANS 0x200 /* output info for debugging collection */
#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 DEBUGRATE 0x4000 /* debugging info for irate option */
#define WARNINGMSG 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 gettimeofday( 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;

#ifdef AF_INET6
struct sockaddr_in6 sinme6[MAXSTREAM + 1];
struct sockaddr_in6 sinhim6[MAXSTREAM + 1];
struct sockaddr_in6 save_sinhim6, save_mc6;
struct in6_addr hi_mc6, hi_mc6_asm;
#endif

struct sockaddr_storage frominet;

int domain = PF_UNSPEC;
int af = AF_UNSPEC;
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_TIMESTAMP)
#endif

#define STRUCT_TCPINFO tcpinfo
struct tcpinfo { /* for collecting TCP retransmission info */
struct tcp_info *tcpinf;
/* add missing structure elements */
  u_int32_t tcpi_rcv_rtt;
  u_int32_t tcpi_rcv_space;
  u_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 tcpinfo.statetcpip.state
#define tcpinfo_ca_state tcpinfo.statetcpip.ca_state
#define tcpinfo_retransmits tcpinfo.retransmitstcpip.retransmits
#define tcpinfo_unacked tcpinfo.unackedtcpip.unacked
#define tcpinfo_sacked tcpinfo.sackedtcpip.sacked
#define tcpinfo_lost tcpinfo.losttcpip.lost
#define tcpinfo_retrans tcpinfo.retrans/tcpip.retrans
#define tcpinfo_fackets tcpinfo.fackets/tcpip.fackets
#define tcpinfo_rtt tcpinfo.rtt/tcpip.rtt
#endif
```c
#define tcpinfo_rttvar	
tcpi_rttvar
#define tcpinfo_snd_ssthresh
tcpi_snd_ssthresh
#define tcpinfo_snd_cwnd
tcpi_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_PORT	5101
#define DEFAULT_CTLPORT	5000
#define IPERF_PORT	5001
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 ssrcport = 0; /* TCP control 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];

#if defined(AF_INET6)
#define ADDRSTRLEN 16
#else
#define ADDRSTRLEN INET6_ADDRSTRLEN
#endif
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[HOST3BUFSIZE + 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 */
#endif defined(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 iratecss = 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 defined(AF_INET6)
  struct ipv6_mreq mc6_group; /* holds multicast group address */
#endif
#if defined(MCAST_JOIN_SOURCE_GROUP)
  struct group_source_req group_source_req; /* holds multicast SSM group and */
  /* source information */
#endif
#if defined(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 */
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 */
int pidstat; /* status of forked process */
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 */

#ifdef 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[] = "\nUsage: nuttcp or nuttcp -hprints this usage info\nUsage: nuttcp -Vprints version info\nUsage: nuttcp -xt [-m] hostforward and reverse traceroute to/from server\nUsage (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#ifdef AF_INET6\"\t-6Use IPv6\n#endif\n".-c##cos dscp value on data streams (t|T suffix for full TOS field)\n-1##length of network write|read buf (default 1K|8K/udp, 64K/tcp)\n#if defined(linux)\"\t-s[\d\z] use stdin|stdout for data input|output instead of pattern data\"\t	\"(d’ suboption uses direct I/O if input|output is regular file)\"\t\"(z’ suboption enables zero copy tx if input is regular file)\"\n#else\n\"-suse stdin|stdout for data input|output instead of pattern data\"\n#endif\n\"-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-uuse UDP instead of TCP\n-m##use multicast with specified TTL instead of unicast (UDP)\n-gxxxuser specified multicast IP address for -m option\n-M##MSS for data connection (TCP)\n-N##number of streams (starting at port number), implies -N\n-R##transmit rate limit in Kbps (or (m|M)bps or (g|G)bps or (p)bps)\n-Ri[/#instantaneous rate limit with optional packet burst\n#if defined(linux)\"\t-Ris## emulated smoothed slow start option for -Ri option(TCP)\n#endif\n\"-Ri## emulated smoothed slow start option for -Ri option (TCP)\n#endif\n\"-T##transmit timeout in seconds (or (m|M)inutes or (h)ours)\n-jenable jitter measurements (assumes -u and -Ri options)\n-oenable one-way delay reports (needs synchronized clocks)\n-i##receiver interval reporting in seconds (or (m|M)inutes)\n-IXxidentifer for nuttcp output (max of 40 characters)\n-Fflip option to reverse direction of data connection open\n-a retry failed server connection "again" for transient errors\n#ifdefined HAVE_SETPRIO\"\t-xP##set nuttcp process priority (must be root)\"
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```
#ifdef HAVE_SETAFFINITY
"-xc## set nuttcp client process CPU affinity\n"
"-xc## set nuttcp server process CPU affinity\n"
"-xc## set nuttcp client/server process CPU affinity\n"
#endif

"-dset TCP SO_DEBUG option on data socket\n" -v[v]verbose [or very verbose] output\n" -brief output (default)\n" -br add per-stream TCP retrans info to brief summary (Linux only)\n" #if defined(linux)
" -bc add per-stream TCP cwnd info to brief summary (Linux only)\n" #endif

"-Dxmit only: don't buffer TCP writes (sets TCP_NODELAY sockopt)\n" -Brecv 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

Usage (server): nuttcp -S[P] [ -options]\n
note server mode excludes use of -s except for -1 one-shot mode\n"P" suboption makes 3rd party {in,out}bound control ports same\n"-4Use IPv4 (default)\n"
#else
"-6Use IPv6\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"
#endif

"-P## port number for server connection (default 5000)\n
note don't use with inetd/xinetd (use services file instead)\n" #ifndef HAVE_SETPRIO
"-xp## set nuttcp process priority (must be root)\n"
#endif

"-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"
```
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"--no3rdparty don't allow 3rd party capability"
"--nofork  don't fork server"
"--single-threaded make manually started server be single threaded"

#ifdef IPV6_V6ONLY
"--disable-v4-mapped disable v4 mapping in v6 server (default)"
"--enable-v4-mapped enable v4 mapping in v6 server"
#endif

Multilink aggregation options (TCP only):

```
  nuttcp [-options] -N## [ctl_addr/host1/host2/.../host## (xmit only)]
  nuttcp [-options] -N## [ctl_addr/host+addr_stride (IPv4 only)]
  nuttcp [-options] -N## [ctl_addr/host+n.n.n.n (IPv4 only)]
  nuttcp [-options] -N##m [ctl_addr/host]
```

where host resolves to multiple addresses

```
separate [ctl_addr/] option available only for xmit
```

Format options:

```
-fxmitstatsalso give transmitter stats (MB) with -i (UDP only)
-frunningtotalalso give cumulative stats on interval reports
-f-dropsdon't give packet drop info on brief output (UDP)
-f-retransdon't give retrans info on brief output (TCP)
```

#if defined(linux)
```
-f-cwnd
don't give cwnd info on brief output (TCP)
```
#endif

```
-f-percentlossdon't give %%loss info on brief output (UDP)
-f-parsegenerate key=value parsable output
-f-beta
suppress beta version message
-f-rtt
suppress RTT info
```

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 nbytes = 0;/* bytes sent by transmitter */
int64_t pbytes = 0;/* previous bytes sent by transmitter */
uint64_t ntbytesc = 0;/* bytes sent by transmitter that have */
  * been counted */
uint64_t ntbytescp = 0;/* previous ntbytesc count */
uint64_t ntbytescpi = 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" */
```
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```c
uint32_t nretrans[MAXSTREAM+1]; /* number of TCP retransmissions */
uint32_t iretrans[MAXSTREAM+1]; /* initial number of TCP retransmissions */
uint32_t pretrans = 0; /* previous number of TCP retransmissions */
uint32_t sretrans = 0; /* number of system TCP retransmissions */
uint32_t 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;
srvr_cpu_util;

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 average; /* 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
  #ifdef 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
}
&group_source_req.
    sizeof(group_source_req)) < 0) {
    err("setsockopt: MCAST_LEAVE_SOURCE_GROUP");
}
}
#endif /* AF_INET */
#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("\n*** 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, deltabytess;
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);
}

#ifdef 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) {
    nrbytes = 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 > ntbytesc)
            /* received bytes not counted yet */
            nrbytes += buflen;
        if ((nrbytes > nbytes) ||
            ((nrbytes - pbytes) > (ntbytes - ptbytes)))
            /* yes they were counted */
            nrbytes -= 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 - pbytes)/buflen);
    }
    if (!(format & NOPERCENTLOSS)) {
        deltabytes = nrbytes - pbytes;
        deltabytes = ntbytes - pbytes;
        fractloss = (deltabytes ?
        1.0 -
        (double)deltabytes
     /(double)deltabytes :
    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 ((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-",
(nretrans[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) ?
   "": "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 (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;
    ptbytes = 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)];
} ipad_stride; /* IPv4 address stride */
short save_events;
int skiparg;
int reqval;
int got_srvr_retrans;
int got_srvr_cwnd;
uint32_t total_retrans = 0;/* total retrans for all streams */
uint32_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--;

Usage:
nut_cmd < arg[0] > arg[1]...

Options:
-w|--wantrtt
  forces WANTRTT

Another usage:

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 \"-n\" no longer supported, use \"-n###[k|m|g|p]\" instead\n");
                    fflush(stderr);
                    exit(1);
                }
                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')) {
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 ", tmpport);
        fflush(stderr);
        exit(1);
    }
    srcctlport = tmpport;
    cp1 = cp2 + 1;
}
    tmpport = atoi(cp1);
    if ((tmpport < 1024) || (tmpport > 65535)) {
        fprintf(stderr,
"invalid ctlport = ", tmpport);
        fflush(stderr);
        exit(1);
    }
    ctlport = tmpport;
    if ((cp2 = strchr(argv[0], '/'))) {
        if (strchr(cp2, ':')) {
            fprintf(stderr,
"can't specify source control ", ctlport);
            fflush(stderr);
            exit(1);
        }
        tmpport = atoi(cp2 + 1);
        if ((tmpport < 1024) || (tmpport > 65535)) {
            fprintf(stderr,
"invalid third party ", tmpport);
            fflush(stderr);
            exit(1);
        }
        ctlport3 = tmpport;
    }
break;
case 'u':
    udp = 1;
    if (! buflenopt) buflen = DEFAULTUDPBUFSIZE;
    if (argv[0][2] == 'u') {
        haverateopt = 1;
        rate = MAXRATE;
    }
break;
case 'j':
    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;
    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':
    brief = 0;
    if (argv[0][2] == 'v')
        verbose = 1;
    break;
case 'N':
    reqval = 1;
    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);
    }
    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
      iratesss = 1;
      #endif
      fprintf(stderr, "smoothed slow start not supported for non-Linux\n");
      fflush(stderr);
    }
  }
  sscanf(cp1, "%lf", &rate_opt);
  irate = 1;
}
else if (*cp1 == 'a') {
  cp1++;
  sscanf(cp1, "%lf", &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 = getoptval(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;
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 'i':
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;

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#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);
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 (strcmp(&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;

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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);
    }
    }
    break;
    case 'x':
        reqval = 1;
        if (argv[0][2] == 't') {
            traceroute = 1;
            brief = 1;
        }
#ifdef HAVE_SETPRIO
else if (argv[0][2] == 'P') {
    priority = atoi(optargp(argv, 3, reqval, &skiparg));
}
#endif
#ifdef HAVE_SETAFFINITY
else if (argv[0][2] == 'c') {
    reqval = 1;
}
#endif
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);
    }
    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);
        }
    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 (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");
    }
    
#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");
    }
    
#endif
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 = %d\n", 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 = %d\n", tos);
    fflush(stderr);
    exit(1);
  }
  tos <<= 5;
} else if ((ch != 't') && (ch != 'T')) {
/* DSCP */
  if (tos > 63) {
    fprintf(stderr, "invalid dscp = %d\n", tos);
    fflush(stderr);
    exit(1);
  }
  tos <<= 2;
} if (tos > 255) {
  fprintf(stderr, "invalid tos = %d\n", 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 {
        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--; 
}

#elsedef 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;
}

switch (opt) { 
 default:
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\n"
);  
fprintf(stderr,
"                 Automatically switching to "
"oneshot server mode "
"(\'nuttcp -1\')\n"
);  
oneshot = 1;  
trans = 0;  
clients = 1;  
brie = 0;  
verbo = 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_UDPBUFLEN;  
nstream = 1;  
}  

if (mc_addr && !multicast) {  
fprintf(stderr, "can't use '-g' option for non-multicast\n");  
fflush(stderr);  
exit(1);  
}  

if (mc_addr && !*mc_addr) {  
fprintf(stderr, "no multicast IP address specified for "  
"-g\" option\n");
fflush(stderr);
exit(1);
}

#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);
}

if (argc >= 1) {
host = argv[0];
if ((cp1 = strchr(host, '+'))) {
*cp1++ = '\0';
if (*cp1)
stride = cp1;
}
if (multilink) {
if (stride) {
fprintf(stderr, "don't use both multilink and address stride\n");
fflush(stderr);
exit(1);
}
if ((cp1 = strchr(host, '/')) && strchr(cp1 + 1, '/')) {
fprintf(stderr, "multilink mode not compatible with multiple hosts %s\n", host);
fflush(stderr);
exit(1);
}
hostaddr = NULL;
implicit_hostaddr = 0;
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);
}
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);
}
}
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++;
stream_idx = 1;
}
else if ((cp2 = strchr(host, '/'))) {
host = cp2 + 1;
}
while (stream_idx <= nstream) {
stream_idx = 1;
}
while (stream_idx <= nstream) {
while (stream_idx <= nstream) {
stream_idx = 1;
}
while (stream_idx <= nstream) {
stream_idx = 1;
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=%d: %s\n", nstream, argv[0]);
fflush(stderr);
exit(1);
}
  *cp2 = '\0';
  stream_idx = 1;
}
  stream_idx = 1;
if (!multilink && (stream_idx > 1)) &&
  (error_num = getaddrinfo(cp1, NULL, &hints,
   &res[stream_idx]))
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);
    }
    if (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);
}
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);
        } else if (error_num < 0)
            err("inet_pton: stride");
    } else if (error_num < 0)
        err("inet_pton: stride");
    else {
        ipad_stride.ip32 = atoi(stride);
        ipad_stride.ip32 = htonl(ipad_stride.ip32);
    }
} else {
    fprintf(stderr, "stride %s not valid for IPv6\n", stride);
    fflush(stderr);
    exit(1);
}
*(stride - 1) = '+';
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
", 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 (cp1)
            *cp1 = '+';
    }
if (!port) {
    if (af == AF_INET) {
if ((sp = getservbyname( "nuttcp-data", "tcp" )))
    port = ntohs(sp->s_port);
else
    port = DEFAULT_PORT;
}
#endif
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;
    }
} else {
    err("unsupported AF");
}
}
#endif
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;
        }
    }
    #endif
    else {
        err("unsupported AF");
    }
}

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) {
        #ifndef AF_INET6
        if (peer.peer4.sin_family == AF_INET)
        #else
        if ((peer.peer4.sin_family == AF_INET) ||
            (peer.peer6.sin6_family == AF_INET6))
        #endif
        {
            #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;
            #endif
        } else {
            clientaddr = peer.peer4.sin_addr;
            client_ipaddr.ss.ss_family = AF_INET;
            client_ipaddr.sin.sin_addr = clientaddr;
        }#ifdef AF_INET6
    }
} #ifdef AF_INET6
else if (af == AF_INET6) {
    struct sockaddr_in6 peer;
    socklen_t peerlen = sizeof(peer);
    if (getpeername(0, (struct sockaddr *)&peer, &peerlen) == 0) {
        if ((peer.sin6_family == AF_INET) ||
            (peer.sin6_family == AF_INET6)) {
            clientaddr6 = peer.sin6_addr;
            clientscope6 = peer.sin6_scope_id;
            client_ipaddr.ss.ss_family = AF_INET6;
            client_ipaddr.sin6.sin6_addr = clientaddr6;
            inetd = 1;
            oneshot = 1;
            start_idx = 1;
        }
    }
} #endif
else {
    err("unsupported AF");
}

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

#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
}

mc_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 = NULL;
    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: ",
                    mcgaddr);
            fflush(stderr);
            exit(1);
        }
    } else {
        if (((htonl(ipv4_mcaddr.s_addr) & 0xFF000000) !=
             (HI_MC << 24))) {
            fprintf(stderr, "bad ASM multicast IP address: %s: ",
                    mcgaddr);
            fflush(stderr);
            exit(1);
        }
    }
}
#else 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] != 0)) {
< 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::wwww:xxxx:
"yyyy: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 
\"-Ri\" 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 > MAXUDPBUFLEN)) {
    fprintf(stderr, "UDP buflen = %d > MAXUDPBUFLEN, set to %d\n", buflen, MAXUDPBUFLEN);
    buflen = MAXUDPBUFLEN;
}

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 );

#ifdef 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: 
    Using beta vers: %s interface/output 
    "subject to change\n", BETA_FEATURES);
    fprintf(stderr, "(to suppress this message 
    "use \"-f-beta\")\n\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);
    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);
    } else {
      while (buflen > ctlconnmss) {
        buflen >>= 1;
        if (nbuf_bytes)
          nbuf <<= 1;
        if ((rate != MAXRATE) &&
            rate_pps)
          rate >>= 1;
      }
    }
  }
}
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);
}
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
");
        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 (strcmp(buf, "KO") == 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 && !bullenopt && (irvers >= 50302))

} buflen = 0;
fprintf(ctlconn, "buflen = %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 >= 30200)

} 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",
            ident, rvers_major,
            rvers_minor,
            rvers_delta);
        fflush(stdout);
        traceroute = 0;
        abortconn = 1;
    }
    if (irate && !trans) {
        fprintf(stdout, "nuttcp%s%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 && (irvers < 30602)) {
fprintf(stdout, "nuttcp%s%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);
}
if ((irvers < 40101) && (format & PARSE)) {
fprintf(stdout, "nuttcp%s%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 (irvers >= 50001) {
if (host3 && (irvers < 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(stderr, "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;
}
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;
}
}
}
if (irvers >= 50101) {
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;
}
}
if (irvers >= 60201) {
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\%-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\%-t":"-r", ident, rvers_major, rvers_minor, rvers_delta);
fflush(stdout);
tos = 0;
abortconn = 1;
}
}
if (irvers >= 50501) {
fprintf(ctlconn, " , nbuf_bytes = %d", nbuf_bytes);
fprintf(ctlconn, " , rate_pps = %d", rate_pps);
fprintf(ctlconn, " , nodelay = %d", nodelay);
} else {
if (host3 && udp && nbuf_bytes) {
fprintf(stdout, "nuttcp\%-t":"-r", ident);
fprintf(stdout, "nuttcp\%-t":"-r", ident);
 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(stderr, 
        Warning: by server version %.d%.d%.d, need >= 5.5.1\n", 
        rvers_major, 
        rvers_minor, 
        rvers_delta);
    fprintf(stderr, 
        Warning: third party request may not produce\n");
    fprintf(stderr, 
        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);
        fprintf(ctlconn, 
            \" , srvr_affinity = %d\", 
            srvr_affinity);
    }
    else {
        fprintf(ctlconn, 
            \" , affinity = %d\", 
            srvr_affinity);
    }
}
else {
    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(stdout, "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(stdout);
do_jitter = 0;
abortconn = 1;
}
if ((do_jitter & JITTER_IGNORE_OOO) &&
  !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);
        fflush(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);
    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 (!trans)
    send_retrans = 0;
else
    read_retrans = 0;
}
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);
}
if (sscanf(buf, "OK v%d.%d.%d\n", &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);
}
else {
if (inetd) {
    ctlconn = stdin;
}
else {
    if (!ctlconn = fdopen(fd[0], "r"))
        err("fdopen: ctlconn for reading");
}
    fflush(stdout);
    if (linetd) {
        /* 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\n", stdout);
        mes("no nuttcp HELO message");
        fputs("KO\n", 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\n", stdout);
            mes("no nuttcp parameters");
            fputs("KO\n", stdout);
            goto cleanup;
        }
    }
}
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, vers = %d.%d.%d", &nbuflen, &nbuf, &sendwin, &nstream, &rate, &port, &trans, &braindead, &timeout, &udp, &rvers_major, &rvers_minor, &rvers_delta) < 13) {
    trans = !trans;
fputs("KO
", stdout);
mes("error scanning parameters");
fprintf(stdout, "may be using older client version than server\n");
fputs(buf, stdout);
fputs("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\n", 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 {
  ctlport3 = 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;
}
#endif MCAST_JOIN_SOURCE_GROUP
if (mc_param && (ssm == 1)) {
puts("KO\n", stdout);
fprintf(stdout, "server does not support ssm\n");
puts("KO\n", stdout);
goto cleanup;
}
#else
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);
}
else {
    ipad_stride.ip32 = 0;
}
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 != ':')) {
                puts("KO\n", stdout);
                mes("invalid multicast group");
                fprintf(stdout, "multicast group = '%s'\n", mc_addr);
                puts("KO\n", 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;
    }
    ifdef
        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 &&
    (nbuflen != buflen)) {
    if (nbuflen < 1) {
        fputs("KO\n", stdout);
        mes("invalid buflen");
        fprintf(stdout, "buflen = %d\n", nbuflen);
        fputs("KO\n", stdout);
        goto cleanup;
    }
    free(buf);
    mallocsize = nbuflen;
    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, nbuflen );
}
buflen = nbuflen;
if (nbuf < 1) {
    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("KOu", stdout);
goto cleanup;
}
if (iratesss) {
if (udp) {
    fputs("KOu", stdout);
    mes("iratesss not allowed for udp");
    fputs("KOu", stdout);
    goto cleanup;
}
    if (maxburst > 1) {
        fputs("KOu", stdout);
        mes("maxburst > 1 not allowed with iratesss");
        fprintf(stdout, "maxburst = %d\n", maxburst);
        fputs("KOu", stdout);
        goto cleanup;
    }
    if (nstream > 1) {
        fputs("KOu", stdout);
        mes("nstream > 1 not allowed with iratesss");
        fprintf(stdout, "nstream = %d\n", nstream);
        fputs("KOu", stdout);
        goto cleanup;
    }
}
    if (host3 && ctlport3 && (ctlport3 < 1024)) {
        fputs("KOu", stdout);
        mes("invalid ctlport3");
        fprintf(stdout, "ctlport3 = %hu\n", ctlport3);
        fputs("KOu", stdout);
        goto cleanup;
    }
    if (interval < 0) {
        fputs("KOu", stdout);
        mes("invalid interval");
        fprintf(stdout, "interval = %f\n", interval);
        fputs("KOu", stdout);
        goto cleanup;
    }
    if (mc_param) {
        if ((mc_param < 1) ||
            (mc_param > 255)) {
            fputs("KOu", stdout);
            mes("invalid multicast ttl");
            fprintf(stdout, "multicast ttl = %d\n", mc_param);
            fputs("KOu", stdout);
            goto cleanup;
        }
    }
}

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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");
fwrite(stdout, "nodelay = %d\n",
nodelay);
fprintf(stdout, "nodelay = %d\n",
         nodelay);
fputs("KO", stdout);
goto cleanup;
}
if ((srvr_affinity >= 0) && !host3) {
#define 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", stdout);
    mes("couldn't change server "
         "CPU affinity");
    fprintf(stdout,
            "srvr_affinity = %d\n",
            srvr_affinity);
    fputs("KO", stdout);
    goto cleanup;
}
#else
    fputs("KO", stdout);
    mes("server doesn't support setting "
         "CPU affinity");
    fprintf(stdout,
            "srvr_affinity = %d\n",
            srvr_affinity);
    fputs("KO", stdout);
    goto cleanup;
#endif
}
if (maxburst < 1) {
    fputs("KO", stdout);
    mes("invalid maxburst");
    fprintf(stdout, "maxburst = %d\n",
            maxburst);
    fputs("KO", stdout);
    goto cleanup;
}
if (do_jitter < 0) {
    fputs("KO", stdout);
    mes("invalid do_jitter");
    fprintf(stdout, "do_jitter = %d\n",
            do_jitter);
    fputs("KO", 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_jitter && !irate) {
    fputs("KO\n", stdout);
    fprintf(stdout, "jitter option requires "
    " instantaneous rate limit\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;
    }
    if (mc_addr) {
        error_num = inet_pton(AF_INET, mc_addr,
            &dummy);
        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;
        }
    }
}
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);
}
(pollfds[0].revents & (POLLIN | POLLPRI)) && !got_done) {
/* check for server output (mainly for server error) */
while ((fgets(intervalbuf, sizeof(intervalbuf), stdin)) {
    settimer(ITIMER_REAL, &timer, 0);
    if (strcmp(intervalbuf, "DONE", 4) == 0) {
        if (format & DEBUGPOLL) {
            fprintf(stdout, "got DONE\n");
            fflush(stdout);
        }
        got_done = 1;
        intr = 1;
        break;
    } else if (strcmp(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);
                if (*ident) {
                    fputs(trans ? "-r" : "-t", stdout);
                    fputc(intervalbuf + 8, stdout);
                } else
                    fputs(intervalbuf, stdout);
                    fflush(stdout);
    } if (strstr(intervalbuf, "Error"))
        exit(1);
    } else {
        if (*ident)
            fprintf(stdout, "%s: ",
                ident + 1);
                fputs(intervalbuf, stdout);
                fflush(stdout);
            } if (strstr(intervalbuf, "Error"))
                exit(1);
            } else {
                if (*ident)
                    fprintf(stdout, "%s: ",
                        ident + 1);
                        fputs(intervalbuf, stdout);
                        fflush(stdout);
                    } if (clientserver && client && (stream_idx == 1)) {
                    reading_svr_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];
      }
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]));
#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));
}
ifdef AF_INET6
else if (af == AF_INET6) {
    sinhim6[stream_idx].sin6_family = af;
    bcopy((char *)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");
}
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;
    }
#endif
    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;
}
#ifdef AF_INET6
    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 =
            clientscope6;
    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 */
#ifdef 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 */
    #ifdef 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");
        fputs("Error: ", stdout);
        fputs(strerror(save_errno), stdout);
        fputs("KO
", stdout);
        goto cleanup;
    }
    err("socket");
}
if (setsockopt(fd[stream_idx], SOL_SOCKET, SO_REUSEADDR, (void *)&one, sizeof(one)) < 0) {
if (clientserver & !client & (stream_idx == 1)) {
    save_errno = errno;
    fputs("KO", stdout);
    mes("Error: setsockopt()
        " to so_reuseaddr failed");
    fputs("Error: ", stdout);
    fputs(strerror(save_errno), stdout);
    fputs("n", stdout);
    fputs("KO", stdout);
    goto cleanup;
}
err("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;
            fputs("KO", stdout);
            mes("Error: setsockopt()
                " to ipv6_only failed");
            fputs("Error: ", stdout);
            fputs(strerror(save_errno), stdout);
            fputs("n", stdout);
            fputs("KO", stdout);
            goto cleanup;
        }
        err("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;
            fputs("KO", 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;
            fputs("KO\n", stdout);
            mes("Error: bind() on data stream failed");
            fputs("Error: ", stdout);
            fputs(strerror(save_errno), stdout);
            fputs("KO\n", stdout);
            goto cleanup;
        }
        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;
            fputs("KO\n", stdout);
            mes("Error: unsupported AF on data stream");
            fputs("Error: ", stdout);
            fputs(strerror(save_errno), 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) {
nretrans[0] = get_retrans(fd[0], &tcpinf);
if ((retransinfo > 0) || cwndinfo)
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\n",
trans ? ".t" : ".r",
ident, priority);
}
#else
#endif
#ifdef HAVE_SETAFFINITY
if ((affinity >= 0) && (brief <= 0) && !host3) {
int cpu_affinity;
erno = 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: ",
            trans ? ":-t" : ":-r",
            ident, cpu_affinity);
  else
    fprintf(stdout,
            "nuttcp%s%s: ",
            trans ? ":-t" : ":-r",
            ident, cpu_affinity);
}
#endif
if (trans) {
  if (((brief <= 0) && (format & PARSE))
       
    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, " mode=%s host=%s",
            udp ? "udp" : "tcp",
            host);
    if (multicast)
      fprintf(stdout, " multicast_ttl=%d",
              multicast);
    fprintf(stdout, "un");
  if (timeout)
    fprintf(stdout, "nuttcp-t%s: time_limit=%.2f\n",
            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 (irate)
    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: 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, "nuttcp-t%s: time limit = %.2f second%s
",
    ident, timeout,
    (timeout == 1.0)?"
        :
    ide", (double)rate/1000,
irate ? "instantaneous" : "aggregate");
if (irate)
    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, ");
} 
if (tos)
fprintf(stdout, ", tos = 0x%X", tos);
if ((rate != MAXRATE) || 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\n", udp ? "udp":"tcp");
if (tos)
    fprintf(stdout, "nuttcp-r%s: tos=0x%X\n",
ident, tos);
if (interval)
    fprintf(stdout, "nuttcp-r%s: reporting_interval=%.2f\n",
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\n", 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\n", ident, interval,
    (interval == 1.0)?"":"s");

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 (tos) {
        if (af == AF_INET) {
            if (setsockopt(fd[stream_idx], IPPROTO_IP, IP_TOS, (void *)&tos, sizeof(tos)) < 0)
                err("setsockopt");
        } else if (af == AF_INET6) {
            if (setsockopt(fd[stream_idx], IPPROTO_IPV6, IPV6_TCLASS, (void *)&tos, sizeof(tos)) < 0)
                err("setsockopt");
        } else {
            err("unsupported AF");
        }
    }
    if (nodelay && !udp) {
        struct protoent *p;
        p = getprotobyname("tcp");
        if (p && setsockopt(fd[stream_idx], IPPROTO_TCP, 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"
                    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);
#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].revents & (POLLIN | POLLPRI)))
goto cleanup;
pollfds[0].events = save_events;
}
num_connect_tries++;
if (stream_idx == 1)
get_timeofday(&timeconn1, (struct timezone *)0);
if (af == AF_INET) {
  error_num = connect(fd[stream_idx], (struct sockaddr *)&sinhim[stream_idx], sizeof(sinhim[stream_idx]));
}
#include AF_INET6
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]);
go to 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");
flush(stderr);
exit(1);
}
if (format & PARSE) {
        fprintf(stderr, "nuttcp%s%s: Info="attempting_to_switch_to_deprecated_classic_mode\n",
        trans?\"-t:"\"-r", ident);
        fprintf(stderr, "nuttcp%s%s: Info="will_use_less_reliable_transmitter_side_statistics\n",
        trans?\"-t:"\"-r", ident);
    } else {
        fprintf(stderr, "nuttcp%s%s: Info: attempting to switch to deprecated \"classic\" mode\n",
        trans?\"-t:"\"-r", ident);
        fprintf(stderr, "nuttcp%s%s: Info: will use less reliable transmitter side statistics\n",
        trans?\"-t:"\"-r", ident);
    }
flush(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));
        }
    }
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,
            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));
    }
} #endif
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, RTT_FMT, rtt);
    if (af == AF_INET) {
        fprintf(stdout, " af=inet");
    }
}
```c
#ifdef AF_INET6
else if (af == AF_INET6) {
    fprintf(stdout, " af=inet6\n");
}  
#else
else {  
    fprintf(stdout, " af=%d", af);
}
#endif
}  

/* 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);
#else
    if ((sockopterr = setsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG,  (void *)&datamss, optlen)) < 0)
        if (errno != EINVAL)
            err("unable to set maximum segment size");
#endif
  }

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;
} else {
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);
        }
      }
      if (af == AF_INET) {
        fprintf(stdout, " af=inet");
      }
      ifdef AF_INET6
      else if (af == AF_INET6) {
        fprintf(stdout, " af=inet6");
      }
      endif
    }
  }
}
fprintf(stdout, " af=%d", af);
}
fprintf(stdout, ";n");
}
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");
    }
    if ((stream_idx == nstream) && (brief <= 0)) {
        if (!IN6_IS_ADDR_V4MAPPED(&peer6.sin6_addr)) {
            inet_ntop(af, peer6.sin6_addr.s6_addr, tmphost, sizeof(tmphost));
        } 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 (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);
}

if (af == AF_INET) {
    fprintf(stdout, " af=inet");
}
#endif
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 didn't 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 { // unsupported AF
    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
}
}

optlen = sizeof(sendwinval);
if (getsockopt(fd[stream_idx], SOL_SOCKET, SO_SNDBUF, (void *)&sendwinval, &optlen) < 0)
    err("get send window size didn't work");
#if defined(linux)
sendwinval /= 2;
#endif
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"
",
            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 defined(linux)
rcvwinval /= 2;
#endif
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
",
            trans?-t:"-r", ident,
            rcvwinval, rcvwin);
    fflush(stderr);
}

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

if ((stream_idx == nstream) && (brief <= 0)) {
#endif 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;
}
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)
exit(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;
}
itimer.it_value.tv_usec = 0;
itimer.it_interval.tv_sec = 0;
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);
    fputs(linebuf, stdout);
    fflush(stdout);
}
itimer.it_value.tv_sec = 0;
itimer.it_value.tv_usec = 0;
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)
            &
(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);
            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 != DEFAULTTUDPBUFLEN)) ||
    (udp && multicast
&& (buflen != DEFAULT_MC_UDPBUFLEN))) {
    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%s%lu/%d",
                irate ? "i" : "",
                rate, maxburst);
        else
            sprintf(tmpargs[j], "-R%s%lu/%d",
                irate ? "i" : "",
                rate, maxburst);
    }
else
    {
    }
}
if (rate_pps)
sprintf(tmpargs[j],
"-R%s%s%lu",
irate ? "i": "",
iratess ? "s": "",
rate);
else
sprintf(tmpargs[j],
"-R%s%s%hu",
irate ? "i": "",
iratess ? "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);
cmdargs[i++] = tmpargs[j++];
if (mc_addr) {
if (rate_pps)
printf(tmpargs[j],
"-R%s%s%lu",
irate ? "i": "",
iratess ? "s": "",
rate);
else
sprintf(tmpargs[j],
"-R%s%s%hu",
irate ? "i": "",
iratess ? "s": "",
rate);
}
sprintf(tmpargs[j], "-g%s",
mc_addr);
cmdargs[i++] = tmpargs[j++];
}
}
else
    cmdargs[i++] = "-u";
}
if (do_jitter) {
cmdargs[i++] = "-j";
}
if (do_owd) {
cmdargs[i++] = "-o";
}
if (interval) {
sprintf(tmpargs[j], "-i%f", interval);
cmdargs[i++] = tmpargs[j++];
}
if (reverse)
    cmdargs[i++] = "-F";
if (format) {
    if (format & XMITSTATS)
        cmdargs[i++] = "-fxmitstats";
    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, "/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 (wait_pid == (pid_t)-1) {
                    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) {
```c
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(stdout);
fflush(stderr);
exit(0);
}

fprintf(stdout, "\n");
if (intr) {
intr = 0;
fprintf(stdout, "\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) &
```
if (strncmp(linebuf, "DONE", 4) == 0)
    exit(0);
fgets(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
");
            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, "/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);
}
fprintf(stderr, "failed to execute \%s\n", cmd);
fflush(stdout);
fflush(stderr);
if (!inetd)
    exit(0);
goto cleanup;
}

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;
    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
            hints.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 231.x.y.z",
mcgaddr);
errno = EINVAL;
err(tmpbuf);
}
}
#ifdef AF_INET6
if (mcres->ai_family == AF_INET6) {
struct sockaddr_in6 *group;

łam 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 (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 (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);
}
}
#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");
} 
}
#endif 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");
}
#else /* AF_INET6 */
else { 
err("unsupported AF");
}
#endif /* AF_INET6 */
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;

            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(0xFFFFFF);
            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);
}
#else AF_INET6
    else if ((mc_af == AF_INET6) && !ssm) { /* IPv6 ASM */
/* 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));
    }
    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);
    }
#endif
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,
        Mults, sizeof(mults));
    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,
        Mults, Multaddr);
} else {
    fprintf(stdout,
        "nuttcp%s%s: receive from multicast source %s\n",
        trans?"-t":"-r", ident,
        Mults);
    fprintf(stdout,
        "nuttcp%s%s: using asm on multicast group %s\n",
        trans?"-t":"-r", ident,
        Multaddr);
}
#endif /* AF_INET6 */
#ifdef 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 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(stdout,

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"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 /* AF_INET6 */
#endif /* 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 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);
    }
}
#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) {
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=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 */
#ifdef MCAST_JOIN_SOURCE_GROUP
  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 *)&sinhim6[1].sin6_addr.s6_addr,
    sizeof(struct in6_addr));
  }
  }
#endif /* MCAST_JOIN_SOURCE_GROUP */
/* 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,
            "%s%s: multicast_source=%s multicast_group=%s ssm=1\n",
            trans?"-t":"-r", ident,
            multsrc, multaddr);
    } else {
        fprintf(stdout,
            "%s%s: sending from multicast source %s\n",
            trans?"-t":"-r", ident,
            multsrc);
        fprintf(stdout,
            "%s%s: using ssm on multicast group %s\n",
            trans?"-t":"-r", ident,
            multaddr);
    }
}
#endif AF_INET6
 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;

    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);
#ifndef /* AF_INET6 */
#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;
    setitimer(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;
}
#endif 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)
        setitimer(ITIMER_REAL, &itimer, 0);
    prep_timer();
}
bzero(buf + 8, 8); /* zero out timestamp */
nbytes += buflen;
if (do_poll && (format & DEBUGPOLL)) {
    fprintf(stdout, "do_poll is set\n\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;
    }
    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 &
                    (POLLIN | POLLPRI))
                tmpbuf[0] = '\0';
            if ((recv(fd[0], tmpbuf, 1,
                MSG_OOB) == -1) &&
                (errno == EINVAL))
                continue;
            else
                tmpbuf[0] = '\0';
        }
    }
}
/* check if client went away */
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))
        continue;
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);
}
#if 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 & (POLLIN | POLLPRI)) && !intr) {
    /* check for server output */
#else defined DEBUG
if (format & DEBUGPOLL) {
    fprintf(stderr, "got something %d: ", i);
    for (i = 0; i < nstream + 1; i++) {
        if (pollfds[i].revents & POLLIN) {
            fprintf(stderr, " rfd %d", pollfds[i].fd);
        }
        if (pollfds[i].revents & POLLPRI) {
            fprintf(stderr, " 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, 
);
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
);
fflush(stdout);
}
got_done = 1;
intr = 1;
do_poll = 0;
break;
}
else if (strncmp(intervalbuf, "nuttcp-r", 8) == 0) {
if ((brief <= 0) ||
strchr(intervalbuf, 
"Warning") ||
strchr(intervalbuf, 
"Error") ||
strchr(intervalbuf, 
"Debug") ) {
if (*ident) {
fprintf(stdout, 
"
"
"
"
"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 {  
    *cp1 = '\0';  
    got_0retrans = 1;  
}  
}  
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,
(retrans[1] -
pretrans),
(retransinfo == 1) ?
"" : "host-";
pretrans = nretrans[1];
}
#endif
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) {
    nntbytesc = 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';
          get_timeofday(&time_eod,
            (struct timezone *)0);
          done = 1;
          break;/* "EOF" */
        }
        if (strncmp(buf, "BOD", 3) == 0) {
          if (two_bod &&
            (buf[3] == '0'))
            continue;
          if (interval)
            setitimer(ITIMER_REAL,
              &itimer, 0);
          prep_timer();
          got_begin = 1;
          continue;
        }
      }
    }
  }
}
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;
#endif DEBUG
if (clientserver &&
client &&
(format & DEBUGJITTER))
fprintf(stdout,
"pkt_time_ms"
" = %6.3f ms\n",
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)|-J)/16
 *
 * for nuttcp we just use the raw
 * absolute value of the delta
 *
 * J=|D(i-1,i)|
 */
if (!do_owd) {

gettimeofday(&timerx,
(struct timezone *)0);
}
  if (do_jitter & JITTER_IGNORE_OOO) {
/* first check that packet
* is next in sequence */
if (udplossinfo &&
  (ntbytescp + buflen)
!= ntbytesc) {
  ntbytesc = 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_avg += jitter;
#ifdef DEBUG
if (clientserver && client &&
(format & DEBUGJITTER))
fprintf(stdout,
"pkt_delta = %6.3f ms, ",
"jitter = %9.6f ms\n",
pkt_delta, jitter);
#endif
timepkr = timerx;
ntbytesc = ntbytesc;
if (!interval) {
  stream_idx++;
}
stream_idx =
stream_idx % nstream;
    continue;
}
if (first_jitteri) {
    get_timeofday(&timepkri,
    (struct timezone *)0);
    first_jitteri = 0;
    ntbytescpi = ntbytesc;
    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;
    njitteri++;
    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++;
  stream_idx = stream_idx % nstream;
} }
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;

    if (directio) {
        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");
        }
    } else
        directio = 0;

    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 ((errno != EINTR) &&
        #ifdef ERESTART
        (errno != ERESTART) &&
        #endif
        (!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) {
    usleep(500000);
    strcpy(buf, "EOD1");
    (void)Nwrite(fd[stream_idx + 1], buf, 4 ); /* rcvr end */
stream_idx++;
    stream_idx = stream_idx % nstream;
    usleep(500000);
    strcpy(buf, "EOD2");
    (void)Nwrite(fd[stream_idx + 1], buf, 4 ); /* rcvr end */
stream_idx++;
    stream_idx = stream_idx % nstream;
    usleep(500000);
    strcpy(buf, "EOD3");
    (void)Nwrite(fd[stream_idx + 1], buf, 4 ); /* rcvr end */
stream_idx++;
    stream_idx = stream_idx % nstream;
    usleep(500000);
    strcpy(buf, "EOD4");
    (void)Nwrite(fd[stream_idx + 1], buf, 4 ); /* rcvr end */
stream_idx++;
    stream_idx = stream_idx % nstream;
}

if (!udp && trans && (format & DEBUGRETRANS)) {
sretrans = get_retrans(-1, &tcpinf);
fprintf(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(stdout, "jitter_min = %9.6f ms\n", jitter_min);
    fprintf(stdout, "jitter_max = %9.6f ms\n", jitter_max);
    fprintf(stdout, "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, &timer, 0);
    get_timeofday(&timeunsent,
        (struct timezone *)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);
                puts(trans ?
                    ":t" : ":r",
                    stdout);
                puts(ident,
                    stdout);
                puts(intervalbuf + 8,
                    stdout);
            } else
                fputs(intervalbuf,
                    stdout);
            fflush(stdout);
        }
        if (strstr(intervalbuf,
            "Error"))
            exit(1);
    } else
        puts(intervalbuf,
            stdout);
        fflush(stdout);
    }
}
{ 
else { 
if (*ident) 
fprintf(stdout, ": 
ident + 1); 
intervalbuf[strlen(intervalbuf)] = '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'; 
   } 
   printf(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, 
RETRANS_FMT_INTERVAL, 
(nretrans[1] - pretrans), 
(retransinfo == 1) ? 
"host-", 
(nretrans[1] - pretrans)); 
   else 
      fprintf(stdout, 
RETRANS_FMT_INTERVAL, 
(nretrans[1] - pretrans), 
(retransinfo == 1) ? 
"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;
}
get_timeofday(&timec, (struct timezone *)0);
tvsub(&timed, &timec, &timeunsent);
realtd = timed.tv_sec
        + ((double)timed.tv_usec) / 1000000;
}
if (clientserver && client) {
reading_srver_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;
cwdfinfo = 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];
    #if defined(linux)
    if (retransinfo == 1)
      cwnd[stream_idx] =
          tcpinf.tcpinfo_snd_cwnd
          *datamss/1024;
    #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 = ") && (brief > 0))
    continue;
  if (*ident)
    fprintf(stdout, "%s: ", ident + 1);
  intervalbuf[strlen(intervalbuf) - 1] = '\0';
  if (do_retrans) {
    cp1 = strchr(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[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];
}
#endif 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
        strcpy(fmt, DROP_FMT);
    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))
        strcpy(fmt, LOSS_FMT5);
    else
        strcpy(fmt, LOSS_FMT);
    sprintf(cp2, fmt, fractloss * 100);
    cp2 += strlen(cp2);
    sprintf(cp2, "
"};
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
    strcat(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
        cp2 = NULL;
} 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 = strchr(cp2, '+');
        stream_idx++;
    } else
        cp2 = NULL;
}
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;
} else {
    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"))) {
    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)
    sprintf(tmpbuf, "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);
}

if (format & PARSE)
    sscanf(cp2, P_RTT_FMT_IN, &rtt);
else
    sscanf(cp2, RTT_FMT_IN, &rtt);

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, (double)nbytes/(1024*1024),
            (double)nbytes/realt/1024,
            (double)nbytes/realt/125000);  
    if (clientserver && client && !trans && udp) {
        fprintf(stdout, "nuttcp-r%s:");
        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, nretrans[1]);
else
fprintf(stdout, " (%d", nretrans[1]);
for (stream_idx = 2; stream_idx <= nstream;
    stream_idx++) {
    fprintf(stdout, "+%d",
        nretrans[stream_idx]);
}
if (!!(format & PARSE))
    fprintf(stdout, ")");
#endif 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, ")");
    }
#endif
fprintf(stdout, 
)
strcpy(fmt, "nuttcp%s%s: ");
if (format & PARSE)
    strcat(fmt, "io_calls=%d msec_per_call=%.2f calls_per_sec=%.2f
" );
else
    strcat(fmt, "%d I/O calls, msec/call = %.2f, calls/sec = %.2fn" );
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,
((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);
}
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);
}
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,
            (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) ?
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(stderr,
            CWND_FMT_BRIEF_STR1,
            total_snd_cwnd,
            cwnd[1]);
}
for (stream_idx = 2;
     stream_idx <= nstream;
     stream_idx++) {
    fprintf(stdout, "%d",
            cwnd[stream_idx]);
} elif (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);
} 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,
"", 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,

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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",
cwnd[stream_idx]);
}
if (!(format & PARSE))
fprintf(stdout,
CWND_FMT_BRIEF_STR2);
}
else if (cwndinfo && (!(format & NOCWND))) {
if (format & PARSE)
fprintf(stdout,

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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);
}
fprintf(stdout, \n);
}
else {
if (brief && !clientserver) {
if (brief < 0)
fprintf(stdout, \n);
if (*ident)
fprintf(stdout, %s: ", ident + 1);
fprintf(stdout, PERF_FMT_BRIEF2 \n", MB,
cleanup:
if (clientserver) {
if (client) {
  itimer.it_value.tv_sec = SRVR_INFO_TIMEOUT;
  itimer.it_value.tv_usec = 0;
  settimer(ITIMER_REAL, &itimer, 0);
  if (brief <= 0)
    fputc("\n", stdout);
  if (brief <= 0) {
    if (got_srvr_output) {
      fputs(srvrbuf, stdout);
    }
  } else {
    while (fgets(buf, mallocsize, stdin)) {
      settimer(ITIMER_REAL, &itimer, 0);
      fputs(buf, stdout);
    }
    itimer.it_value.tv_sec = 0;
    itimer.it_value.tv_usec = 0;
    settimer(ITIMER_REAL, &itimer, 0);
    fflush(stdout);
    close(0);
  } } else {
    fflush(stdout);
    close(1);
    if (linetd) {
      dup(savestdout);
      close(savestdout);
      fflush(stderr);
      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
", 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));
#endif
bzero((char *)&clientaddr6, sizeof(clientaddr6));
clientscope6 = 0;
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;*/
nbuf = 0;
sendwin = origsendwin;
rcvwin = origrcvwin;
b_flag = 1;
rate = MAXRATE;
maxburst = 1;
nburst = 1;
irate = 0;
iratecss = 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] = \000;
intr = 0;
abortconn = 0;
ipad_stride.ip32 = 0;
port = 5101;
srcport = 0;
trans = 0;
braindead = 0;
udp = 0;
udpllossinfo = 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;
rates_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\n", 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\n", 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;
}

/*
 *P R E P _ T I M E R
 */
void
prep_timer()
{
    get_timeofday(&time0, (struct timezone *)0);
    timep.tv_sec = time0.tv_sec;
    timep.tv_usec = time0.tv_usec;
}
/*
 * 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)/100000+  
        (r1->ru_stime.tv_sec-r0->ru_stime.tv_sec)*100+  
        (r1->ru_stime.tv_usec-r0->ru_stime.tv_usec)/100000;
(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);
brea;
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 'I':
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;
*

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 = l / 3600;
        if (i) {
                sprintf(cp, "%d:\", i);
        END(cp);
        i = l % 3600;
        sprintf(cp, "%d%d", (i/60) / 10, (i/60) % 10);
        END(cp);
        }
        else {
                i = 1;
                sprintf(cp, "%d", i / 60);
        END(cp);
        }
        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 = ntohl(secs);
    timetx.tv_usec = ntohl(usecs);
    get_timeofday(&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 (iratesss && & cwndinfo)  
            /* note iratesss 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 */
    get_timeofday(&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++;
        }
        nburst = 1;
    }
    if (intr && (!udp || (count != 4))) return(0);
} else {
    while ((double)nbytes/realt/125 > rate) {
        /* Get real time */
        get_timeofday(&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);
        errno = 0;
        goto again;
    }
}
else {
    #if defined(linux) && defined(DEBUG)
    if (irate && (format & DEBUGIRATE) && debugout) {
        struct timeval timewr;
da double pktwrtime;
s static int cnt = 0;
cnt++;
    if (cnt == 1) {
        fprintf(debugout, "count = %d, datamss = %d, "
            "pktxmit = %.8f, "
            "rtt = %.6f, maxburst = %dn",
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, iratecsss = %d, 
"which_rt = %d\n",
pktwrtime, pktdelay, 
sss_pkt_cwnd, 
(cwnd[1] + 1)*1024/datamss, iratecsss, 
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);
  }
  count += nread;
return(count);
}
if (nread == 0)
    return((int)count);
    count += (unsigned)nread;
    bufp += nread;
} while (count < n);

return((int)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)
            ermes("fcntl get O_DIRECT");
        else {
            flags &= ~O_DIRECT;
            if (fcntl(savestdout, F_SETFL, flags) < 0)
                ermes("fcntl set O_DIRECT");
        }
    }
    #endif
    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 there isn't a next arg return a pointer to the
current arg value (which will be an empty string) */
if (*nextarg == 'h') && !reqval)
    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 (argv[0][index] == '-' && !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 == 'h') && (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"

#if defined(linux)
#define RETRANS	"segments retransmited"
#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/"
#endif
```c
#define NRETRANS_BEFORE
#else if 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 tpid = 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 (offsetof(TCP_INFO, _retrans) >= SIZEOF_TCP_INFO_RETRANS) {
             retransinfo = 1;
             cwndinfo = 1;
             b_flag = 1;
             return(tcpinfo->tcpi_total_retrans);
         }
     }
 } else {
     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 %s -s
", 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;
 num_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 (*cp) goto close;
       if (!(*cp)) goto close;
       if (!(cp2 = strchr(cp2, ' '))) goto close;
       while (*++cp2 == ' ')
         if (*cp2) goto close;
       if (!(*cp2)) goto close;
       if (strncmp(cp, "RetransSegs", 11) == 0) {
         if (!isdigit((int)(*cp2))) goto close;
         num_retrans = atoi(cp2);
         goto close;
       } else
         continue;
     }
     continue;
   } else {
     if (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);

#ifdef(linux) && defined(TCPI_OPT_TIMESTAMPS)

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, packets = %d, ",
            "rtt = %d, rttvar = %d\n",
            tcpinf.tcpinfo_lost, tcpinf.tcpinfo_retrans,
            tcpinf.tcpinfo_packets, 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.tcpinfo_total_retrans);
    return;
}
#endif
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