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1.5 certifi 2017.11.5

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1.6 channels 1.1.0

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1.7 crypto de07523

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1.8 elasticsearch 6.0.0

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 analysis/common/src/org/apache/lucene/analysis/en
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The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,

analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

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

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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).
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1.18 genproto d0a8f47

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1.19 github.com/gogo/protobuf 1.1.1

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1.20 github.com/ugorji/go v1.1.1

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1.21 go 1.11.5

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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

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tomb - support for clean goroutine termination in Go.

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1.30 go-toml 1.2.0

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1.32 gopkg.in/yaml.v2 v2.2.1

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procfs provides functions to retrieve system, kernel and process
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lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
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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
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cli.go - https://github.com/codegangsta/cli

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

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1.35 grpc 1.14.0

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1.41 kernel-rt 3.10.0.957.5.1.rt56.916.el7

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
```

```
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
```

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{
 return (strcmp(license, "GPL") == 0
  || strcmp(license, "GPL v2") == 0
  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
  || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif
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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the nxt2002 frontend driver

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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(If you think you should be in this list, but you are not, drop a
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AverMedia fix and more flexible card recognition

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1.43 konsorten/go-windows-terminal-sequences 1.0.1

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1.45 logrus 1.2.0

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1.46 magiconair/properties 1.8.0

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goproperties - properties file decoder for Go

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1.47 mapstructure f15292f

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1.49 networking-generic-switch 1.0.0

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1.50 networking-vpp 18.10

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1.51 osrg/gobgp 1.33

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1.52 pflag 1.0.2

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1.54 prometheus 2.7.1

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procfs provides functions to retrieve system, kernel and process
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```
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#
# Auto-generated with:
#  git log --oneline --pretty=format:'%an <%aE>' | sort -u
#
Dmitri Shuralyov <shurcooL@gmail.com>
Ethan Mosbaugh <emosbaugh@gmail.com>
Soheil Hassas Yeganeh <soheil.h.y@gmail.com>
Soheil Hassas Yeganeh <soheil@cs.toronto.edu>
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package spec

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

URL string `json:"url,omitempty"`
}
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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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

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1.59 python-cisco-controller 0.1.7

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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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1.65 python-pygments 1.4 :10.el7

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V# New ports collection makefile for: python25\u000a
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tp366
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V# Date created: 3 July 2003\u000a
p367
tp368
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tp369
a(g24
V# Whom: Hye-Shik Chang <perky@FreeBSD.org>\u000a
p370
tp371
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tp372
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V#\u000a
p373
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V# $FreeBSD: ports/lang/python25/Makefile,v 1.145 2007/10/03 23:22:04 edwin Exp $\u000a
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VCONFIGURE_TARGET
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V--build
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V-portbld-freebsd
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V# must be relative\u000a
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V"${CFLAGS}"
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V"echo freebsd"
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V's,smtpd,smtpd${PYTHON_VER},'
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VTHREADS
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tp767
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V"Enable thread support"
p768
tp769
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V
tp770
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Von
p771
tp772
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tp773
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p774

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VHUGE_STACK_SIZE
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V"Use a larger thread stack"
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V"Use UCS4 for unicode support"
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tp796

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VPYMALLOC
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V"Use python's internal malloc"
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VIPV6
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tp818

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p828
tp829
a(g6
VFPECTL
p830
tp831
a(g6
V
tp832
a(g255
V"Enable floating point exception handling"
p833
tp834
a(g6
V
tp835
a(g6
Voff
p836
tp837
a(g6
V\u000a\u000a
p838
tp839
a(g27

V.include <bsd.port.pre.mk>\u000a
p840
tp841
a(g6
V\u000a
tp842
a(g27
V.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\u000a
p843
tp844
a(g6
V
tp845
a(g100
VMLINKS
p846
tp847
a(g353
V=
tp848
a(g6
V
p849
tp850
a(g138
V${
p851
tp852
a(g100
VPYTHON_VERSION
p853
tp854
a(g138
V}
tp855
a(g6
V.1
p856
tp857
a(g6
V
tp858
a(g6
Vpython.1
p859
tp860
a(g6
V\u000a

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\u000a
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=

tp881
a(g255
V"@comment "
p882
tp883
a(g6
V\u000a
tp884
a(g27
V.endif\u000a
p885
tp886
a(g6
V\u000a
tp887
a(g24
V# workaround for a bug in base curses.h.\u000a
p888
tp889
a(g6
V
tp890
a(g6
VCFLAGS+
p891
tp892
a(g353
V=
tp893
a(g6
V
tp894
a(g6
V-D__wchar_t
p895
tp896
a(g353
V=
tp897
a(g6
Vwchar_t
p898
tp899
a(g6
V\u000a\u000a
p900
tp901
a(g27

V.if !defined(WITHOUT_THREADS)\u000a
p902
tp903
a(g6
V
tp904
a(g6
VCONFIGURE_ARGS+
p905
tp906
a(g353
V=
tp907
a(g6
V
tp908
a(g6
V--with-threads
p909
tp910
a(g6
V\u000a
tp911
a(g6
VCFLAGS+
p912
tp913
a(g353
V=
tp914
a(g6
V
p915
tp916
a(g138
V${
p917
tp918
a(g100
VPTHREAD_CFLAGS
p919
tp920
a(g138
V}
tp921
a(g6
V\u000a
tp922

a(g27
V.if defined(WITHOUT_HUGE_STACK_SIZE)\u000a
p923
tp924
a(g6
V
tp925
a(g6
VCFLAGS+
p926
tp927
a(g353
V=
tp928
a(g6
V
p929
tp930
a(g6
V-DTHREAD_STACK_SIZE
p931
tp932
a(g353
V=
tp933
a(g6
V0x20000
p934
tp935
a(g6
V\u000a
tp936
a(g27
V.else\u000a
p937
tp938
a(g6
V
tp939
a(g6
VCFLAGS+
p940
tp941
a(g353
V=
tp942
a(g6
V

p943
tp944
a(g6
V-DTHREAD_STACK_SIZE
p945
tp946
a(g353
V=
tp947
a(g6
V0x100000
p948
tp949
a(g6
V\u000a
tp950
a(g27
V.endif # defined(WITHOUT_HUGE_STACK_SIZE)\u000a
p951
tp952
a(g6
V
tp953
a(g6
VCONFIGURE_ENV+
p954
tp955
a(g353
V=
tp956
a(g6
V
p957
tp958
a(g100
VLDFLAGS
p959
tp960
a(g353
V=
tp961
a(g255
V"${PTHREAD_LIBS} ${LDFLAGS}"
p962
tp963
a(g6
V\u000a
tp964

a(g27
V.else\u000a
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\u000a
tp974
a(g27
V.if defined(LDFLAGS)\u000a
p975
tp976
a(g6
V
tp977
a(g6
VCONFIGURE_ENV+
p978
tp979
a(g353
V=
tp980
a(g6
V
p981
tp982
a(g100
VLDFLAGS
p983
tp984
a(g353
V=

tp985
a(g255
V"${LDFLAGS}"
p986
tp987
a(g6
V\u000a
tp988
a(g27
V.endif # defined(LDFLAGS)\u000a
p989
tp990
a(g6
V
tp991
a(g27
V.endif # !defined(WITHOUT_THREADS)\u000a
p992
tp993
a(g6
V\u000a
tp994
a(g27
V.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\u000a
p995
tp996
a(g6
V
tp997
a(g6
VCONFIGURE_ARGS+
p998
tp999
a(g353
V=
tp1000
a(g6
V
tp1001
a(g6
V--enable-unicode
p1002
tp1003
a(g353
V=
tp1004
a(g6
Vucs4

p1005
tp1006
a(g6
V\u000a
tp1007
a(g27
V.endif\u000a
p1008
tp1009
a(g6
V\u000a
tp1010
a(g27
V.if defined(WITHOUT_PYMALLOC)\u000a
p1011
tp1012
a(g6
V
tp1013
a(g6
VCONFIGURE_ARGS+
p1014
tp1015
a(g353
V=
tp1016
a(g6
V
p1017
tp1018
a(g6
V--without-pymalloc
p1019
tp1020
a(g6
V\u000a
tp1021
a(g27
V.endif\u000a
p1022
tp1023
a(g6
V\u000a
tp1024
a(g27
V.if ${ARCH} == i386\u000a
p1025
tp1026

a(g6
V
tp1027
a(g6
VPLIST_SUB+
p1028
tp1029
a(g353
V=
tp1030
a(g6
V
tp1031
a(g100
VX86_ONLY
p1032
tp1033
a(g353
V=
tp1034
a(g255
V""
p1035
tp1036
a(g6
V\u000a
tp1037
a(g27
V.else\u000a
p1038
tp1039
a(g6
V
tp1040
a(g6
VPLIST_SUB+
p1041
tp1042
a(g353
V=
tp1043
a(g6
V
tp1044
a(g100
VX86_ONLY
p1045
tp1046

a(g353
V=
tp1047
a(g255
V"@comment "
p1048
tp1049
a(g6
V\u000a
tp1050
a(g27
V.endif\u000a
p1051
tp1052
a(g6
V
tp1053
a(g27
V.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\u000a
p1054
tp1055
a(g6
V
tp1056
a(g6
VPLIST_SUB+
p1057
tp1058
a(g353
V=
tp1059
a(g6
V
p1060
tp1061
a(g100
V32BIT_ONLY
p1062
tp1063
a(g353
V=
tp1064
a(g255
V"@comment "
p1065
tp1066
a(g6
V\u000a

tp1067
a(g27
V.else\u000a
p1068
tp1069
a(g6
V
tp1070
a(g6
VPLIST_SUB+
p1071
tp1072
a(g353
V=
tp1073
a(g6
V
p1074
tp1075
a(g100
V32BIT_ONLY
p1076
tp1077
a(g353
V=
tp1078
a(g255
V""
p1079
tp1080
a(g6
V\u000a
tp1081
a(g27
V.endif\u000a
p1082
tp1083
a(g6
V
tp1084
a(g27
V.if ${ARCH} == sparc64\u000a
p1085
tp1086
a(g6
V
tp1087
a(g6

VCFLAGS+
p1088
tp1089
a(g353
V=
tp1090
a(g6
V
p1091
tp1092
a(g6
V-DPYTHON_DEFAULT_RECURSION_LIMIT
p1093
tp1094
a(g353
V=
tp1095
a(g6
V900
p1096
tp1097
a(g6
V\u000a
tp1098
a(g27
V.endif\u000a
p1099
tp1100
a(g6
V\u000a
tp1101
a(g27
V.if !exists(/usr/bin/ypcat) # the world with NO_NIS\u000a
p1102
tp1103
a(g6
V
tp1104
a(g6
VPLIST_SUB+
p1105
tp1106
a(g353
V=
tp1107
a(g6
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.endif\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\u000a
tp1150
a(g27
V.endif\u000a
p1151
tp1152
a(g6
V\u000a
tp1153
a(g27
V.if defined(WITH_FPECTL)\u000a
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\u000a
tp1163
a(g27
V.endif\u000a
p1164
tp1165
a(g6
V\u000a
tp1166
a(g27
V.if ${OSVERSION} >= 700000\u000a
p1167
tp1168
a(g6
V

tp1169
a(g100
VPLATFORMS
p1170
tp1171
a(g353
V=
tp1172
a(g6
Vplat-freebsd4
p1173
tp1174
a(g6
V
tp1175
a(g6
Vplat-freebsd5
p1176
tp1177
a(g6
V
tp1178
a(g6
Vplat-freebsd6
p1179
tp1180
a(g6
V\u000a
tp1181
a(g27
V.elif ${OSVERSION} >= 600000\u000a
p1182
tp1183
a(g6
V
tp1184
a(g100
VPLATFORMS
p1185
tp1186
a(g353
V=
tp1187
a(g6
Vplat-freebsd4
p1188
tp1189
a(g6

V
tp1190
a(g6
Vplat-freebsd5
p1191
tp1192
a(g6
V
tp1193
a(g6
Vplat-freebsd7
p1194
tp1195
a(g6
V\u000a
tp1196
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

a(g6
V\u000a
tp1211
a(g27
V.endif\u000a
p1212
tp1213
a(g6
V\u000a
tp1214
a(g6
Vpre-patch:
p1215
tp1216
a(g6
V\u000a
p1217
tp1218
a(g138
V${
p1219
tp1220
a(g100
VMKDIR
p1221
tp1222
a(g138
V}
tp1223
a(g6
V
tp1224
a(g138
V${
p1225
tp1226
a(g100
VWRKSRC
p1227
tp1228
a(g138
V}
tp1229
a(g6
V
tp1230
a(g138
V${

p1231
tp1232
a(g100
VSHARED_WRKSRC
p1233
tp1234
a(g138
V}
tp1235
a(g6
V/Modules
p1236
tp1237
a(g6
V\u000a
p1238
tp1239
a(g138
V${
p1240
tp1241
a(g100
VSED
p1242
tp1243
a(g138
V}
tp1244
a(g6
V
tp1245
a(g6
V-e
p1246
tp1247
a(g6
V
tp1248
a(g281
V'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'
p1249
tp1250
a(g6
V
tp1251
a(g262
V\u005c\u000a
p1252

tp1253
a(g6
V
p1254
tp1255
a(g138
V${
p1256
tp1257
a(g100
VPATCH_WRKSRC
p1258
tp1259
a(g138
V}
tp1260
a(g6
V/Tools/scripts/pydoc
p1261
tp1262
a(g6
V
tp1263
a(g6
V>
tp1264
a(g6
V
tp1265
a(g138
V${
p1266
tp1267
a(g100
VWRKDIR
p1268
tp1269
a(g138
V}
tp1270
a(g6
V/pydoc2.5
p1271
tp1272
a(g6
V\u000a
p1273
tp1274

a(g138
V${
p1275
tp1276
a(g100
VSED
p1277
tp1278
a(g138
V}
tp1279
a(g6
V
tp1280
a(g6
V-e
p1281
tp1282
a(g6
V
tp1283
a(g281
V'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'
p1284
tp1285
a(g6
V
tp1286
a(g262
V\u005c\u000a
p1287
tp1288
a(g6
V
p1289
tp1290
a(g138
V${
p1291
tp1292
a(g100
VPATCH_WRKSRC
p1293
tp1294
a(g138
V}
tp1295
a(g6

V/Tools/scripts/idle
p1296
tp1297
a(g6
V
tp1298
a(g6
V>
tp1299
a(g6
V
tp1300
a(g138
V${
p1301
tp1302
a(g100
VWRKDIR
p1303
tp1304
a(g138
V}
tp1305
a(g6
V/idle2.5
p1306
tp1307
a(g6
V\u000a
p1308
tp1309
a(g138
V${
p1310
tp1311
a(g100
VSED
p1312
tp1313
a(g138
V}
tp1314
a(g6
V
tp1315
a(g6
V-e
p1316

tp1317
a(g6
V
tp1318
a(g281
V'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'
p1319
tp1320
a(g6
V
tp1321
a(g262
V\u005c\u000a
p1322
tp1323
a(g6
V
p1324
tp1325
a(g138
V${
p1326
tp1327
a(g100
VPATCH_WRKSRC
p1328
tp1329
a(g138
V}
tp1330
a(g6
V/Lib/smtpd.py
p1331
tp1332
a(g6
V
tp1333
a(g6
V>
tp1334
a(g6
V
tp1335
a(g138
V${
p1336
tp1337
a(g100

VWRKDIR
p1338
tp1339
a(g138
V}
tp1340
a(g6
V/smtpd2.5.py
p1341
tp1342
a(g6
V\u000a
p1343
tp1344
a(g138
V${
p1345
tp1346
a(g100
VREINPLACE_CMD
p1347
tp1348
a(g138
V}
tp1349
a(g6
V
tp1350
a(g6
V-e
p1351
tp1352
a(g6
V
tp1353
a(g262
V\u005c\u000a
p1354
tp1355
a(g6
V
p1356
tp1357
a(g281
V's,/usr/doc/python-docs-,${PREFIX}/share/doc/python,g'
p1358
tp1359
a(g6

V
tp1360
a(g262
V\u005c\u000a
p1361
tp1362
a(g6
V
p1363
tp1364
a(g138
V${
p1365
tp1366
a(g100
VPATCH_WRKSRC
p1367
tp1368
a(g138
V}
tp1369
a(g6
V/Lib/pydoc.py
p1370
tp1371
a(g6
V\u000a
p1372
tp1373
a(g138
V${
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
tp1382
a(g262
V\u005c\u000a
p1383
tp1384
a(g6
V
p1385
tp1386
a(g281
V's|^\u005c(*prefixes = .*\u005c)\u005c]$$|\u005c1, "${X11BASE}"]|g'
p1387
tp1388
a(g6
V
tp1389
a(g262
V\u005c\u000a
p1390
tp1391
a(g6
V
p1392
tp1393
a(g138
V${
p1394
tp1395
a(g100
VPATCH_WRKSRC
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\u005c\u000a
p1412
tp1413
a(g6
V
p1414
tp1415
a(g281
V's|^ \u005c(..ASDLGEN.*\u005c)$$| ${TRUE}|g'
p1416
tp1417
a(g6
V
tp1418
a(g262
V\u005c\u000a
p1419
tp1420
a(g6
V
p1421
tp1422
a(g138
V${
p1423
tp1424
a(g100
VPATCH_WRKSRC
p1425
tp1426

a(g138
V}
tp1427
a(g6
V/Makefile.pre.in
p1428
tp1429
a(g6
V\u000a\u000a
p1430
tp1431
a(g138
V${
p1432
tp1433
a(g100
VREINPLACE_CMD
p1434
tp1435
a(g138
V}
tp1436
a(g6
V
tp1437
a(g6
V-e
p1438
tp1439
a(g6
V
tp1440
a(g262
V\u005c\u000a
p1441
tp1442
a(g6
V
p1443
tp1444
a(g281
V's|*\u005c(..INSTALL_SCRIPT.*\u005c)python-config$$|#port \u005c1|'
p1445
tp1446
a(g6
V
tp1447
a(g262

V\u005c\u000a
p1448
tp1449
a(g6
V
p1450
tp1451
a(g138
V${
p1452
tp1453
a(g100
VPATCH_WRKSRC
p1454
tp1455
a(g138
V}
tp1456
a(g6
V/Makefile.pre.in
p1457
tp1458
a(g6
V\u000a\u000a
p1459
tp1460
a(g138
V${
p1461
tp1462
a(g100
VSED
p1463
tp1464
a(g138
V}
tp1465
a(g6
V
tp1466
a(g6
V-e
p1467
tp1468
a(g6
V
tp1469
a(g281

V's|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION}|'
p1470
tp1471
a(g6
V
tp1472
a(g262
V\u005c\u000a
p1473
tp1474
a(g6
V
p1475
tp1476
a(g138
V${
p1477
tp1478
a(g100
VPATCH_WRKSRC
p1479
tp1480
a(g138
V}
tp1481
a(g6
V/Misc/python-config.in
p1482
tp1483
a(g6
V
tp1484
a(g6
V>
tp1485
a(g6
V
tp1486
a(g138
V${
p1487
tp1488
a(g100
VWRKDIR
p1489
tp1490
a(g138
V}

tp1491
a(g6
V/
tp1492
a(g138
V${
p1493
tp1494
a(g100
VPYTHON_VERSION
p1495
tp1496
a(g138
V}
tp1497
a(g6
V-config
p1498
tp1499
a(g6
V\u000a
p1500
tp1501
a(g138
V${
p1502
tp1503
a(g100
VSED
p1504
tp1505
a(g138
V}
tp1506
a(g6
V
tp1507
a(g6
V-e
p1508
tp1509
a(g6
V
tp1510
a(g281
V's|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}|'
p1511
tp1512

a(g6
V
tp1513
a(g262
V\u005c\u000a
p1514
tp1515
a(g6
V
p1516
tp1517
a(g138
V${
p1518
tp1519
a(g100
VPATCH_WRKSRC
p1520
tp1521
a(g138
V}
tp1522
a(g6
V/Misc/python-config.in
p1523
tp1524
a(g6
V
tp1525
a(g6
V>
tp1526
a(g6
V
tp1527
a(g138
V${
p1528
tp1529
a(g100
VWRKDIR
p1530
tp1531
a(g138
V}
tp1532
a(g6
V/

tp1533
a(g138
V${
p1534
tp1535
a(g100
VPYTHON_VERSION
p1536
tp1537
a(g212
V:
tp1538
a(g100
VS
tp1539
a(g212
V/thon/thon-shared/
p1540
tp1541
a(g138
V}
tp1542
a(g6
V-config
p1543
tp1544
a(g6
V\u000a\u000a
p1545
tp1546
a(g27
V.if defined(WITH_FPECTL) && ${ARCH} == i386\u000a
p1547
tp1548
a(g6
V
tp1549
a(g138
V${
p1550
tp1551
a(g100
VMKDIR
p1552
tp1553
a(g138
V}
tp1554

a(g6
V
tp1555
a(g138
V${
p1556
tp1557
a(g100
VWRKSRC
p1558
tp1559
a(g138
V}
tp1560
a(g6
V/Modules
p1561
tp1562
a(g6
V\u000a
p1563
tp1564
a(g138
V${
p1565
tp1566
a(g100
VECHO
p1567
tp1568
a(g138
V}
tp1569
a(g6
V
tp1570
a(g255
V"fpectl fpectlmodule.c"
p1571
tp1572
a(g6
V
tp1573
a(g6
V>>
p1574
tp1575
a(g6

V
tp1576
a(g138
V${
p1577
tp1578
a(g100
VWRKSRC
p1579
tp1580
a(g138
V}
tp1581
a(g6
V/Modules/Setup.dist
p1582
tp1583
a(g6
V\u000a
tp1584
a(g27
V.endif\u000a
p1585
tp1586
a(g6
V\u000a
tp1587
a(g6
Vpost-configure:
p1588
tp1589
a(g6
V\u000a
p1590
tp1591
a(g138
V${
p1592
tp1593
a(g100
VTAR
p1594
tp1595
a(g138
V}
tp1596
a(g6
V

tp1597
a(g6
V-C
p1598
tp1599
a(g6
V
tp1600
a(g138
V${
p1601
tp1602
a(g100
VWRKSRC
p1603
tp1604
a(g138
V}
tp1605
a(g6
V
tp1606
a(g6
V-cf
p1607
tp1608
a(g6
V
tp1609
a(g6
V-
tp1610
a(g6
V
tp1611
a(g6
V.
tp1612
a(g6
V
tp1613
a(g6
V|
tp1614
a(g6
V
tp1615
a(g138

V${
p1616
tp1617
a(g100
VTAR
p1618
tp1619
a(g138
V}
tp1620
a(g6
V
tp1621
a(g6
V-C
p1622
tp1623
a(g6
V
tp1624
a(g138
V${
p1625
tp1626
a(g100
VSHARED_WRKSRC
p1627
tp1628
a(g138
V}
tp1629
a(g6
V
tp1630
a(g6
V-xf
p1631
tp1632
a(g6
V
tp1633
a(g6
V-
tp1634
a(g6
V\u000a
p1635
tp1636

a(g138
V${
p1637
tp1638
a(g100
VLN
p1639
tp1640
a(g138
V}
tp1641
a(g6
V
tp1642
a(g6
V-sf
p1643
tp1644
a(g6
V
tp1645
a(g138
V${
p1646
tp1647
a(g100
VPYTHON_WRKSRC
p1648
tp1649
a(g138
V}
tp1650
a(g6
V/Lib
p1651
tp1652
a(g6
V
tp1653
a(g138
V${
p1654
tp1655
a(g100
VWRKSRC
p1656
tp1657
a(g138

V}
tp1658
a(g6
V/Lib
p1659
tp1660
a(g6
V\u000a
p1661
tp1662
a(g138
V${
p1663
tp1664
a(g100
VSED
p1665
tp1666
a(g138
V}
tp1667
a(g6
V
tp1668
a(g6
V-e
p1669
tp1670
a(g6
V
tp1671
a(g281
V's,^\\u005c(LDLIBRARY=\u005c).*$$,\u005c1libpython$$(VERSION).so,'
p1672
tp1673
a(g6
V
tp1674
a(g262
V\u005c\u000a
p1675
tp1676
a(g6
V
p1677
tp1678
a(g6
V-e

p1679
tp1680
a(g6
V
tp1681
a(g281
V's,^\u005c(BLDLIBRARY=\u005c).*$$,\u005c1-L. -lpython$$(VERSION),'
p1682
tp1683
a(g6
V
tp1684
a(g262
V\u005c\u000a
p1685
tp1686
a(g6
V
p1687
tp1688
a(g6
V-e
p1689
tp1690
a(g6
V
tp1691
a(g281
V's,^\u005c(CFLAGSFORSHARED=\u005c).*$$,\u005c1$$(CCSHARED),'
p1692
tp1693
a(g6
V
tp1694
a(g262
V\u005c\u000a
p1695
tp1696
a(g6
V
p1697
tp1698
a(g6
V-e
p1699
tp1700
a(g6
V

tp1701
a(g281
V's,^\u005c(Makefile Modules/config.c:.*\u005c)Makefile.pre,\u005c1,'
p1702
tp1703
a(g6
V
tp1704
a(g262
V\u005c\u000a
p1705
tp1706
a(g6
V
p1707
tp1708
a(g6
V-e
p1709
tp1710
a(g6
V
tp1711
a(g281
V's,^\u005c(.(BUILDPYTHON)\u005c: .*\u005c).(LIBRARY),\u005c1,'
p1712
tp1713
a(g6
V
tp1714
a(g262
V\u005c\u000a
p1715
tp1716
a(g6
V
p1717
tp1718
a(g6
V-e
p1719
tp1720
a(g6
V
tp1721
a(g281
V's,^\u005c(.(BUILDPYTHON):.*\u005c).(LIBRARY),\u005c1,'
p1722

tp1723
a(g6
V
tp1724
a(g262
V\u005c\u000a
p1725
tp1726
a(g6
V
p1727
tp1728
a(g138
V${
p1729
tp1730
a(g100
VWRKSRC
p1731
tp1732
a(g138
V}
tp1733
a(g6
V/Makefile
p1734
tp1735
a(g6
V
tp1736
a(g6
V>
tp1737
a(g6
V
tp1738
a(g138
V${
p1739
tp1740
a(g100
VSHARED_WRKSRC
p1741
tp1742
a(g138
V}
tp1743
a(g6

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
tp1754
a(g138
V${
p1755
tp1756
a(g100
VSHARED_WRKSRC
p1757
tp1758
a(g138
V}
tp1759
a(g6
V;
tp1760
a(g6
V
tp1761
a(g262
V\u005c\u000a
p1762
tp1763
a(g6
V
tp1764
a(g138
V${

p1765
tp1766
a(g100
VSETENV
p1767
tp1768
a(g138
V}
tp1769
a(g6
V
tp1770
a(g138
V${
p1771
tp1772
a(g100
VMAKE_ENV
p1773
tp1774
a(g138
V}
tp1775
a(g6
V
tp1776
a(g138
V${
p1777
tp1778
a(g100
VMAKE
p1779
tp1780
a(g138
V}
tp1781
a(g6
V
tp1782
a(g6
Vlib
p1783
tp1784
a(g138
V${
p1785
tp1786

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
V${
p1799
tp1800
a(g100
VLN
p1801
tp1802
a(g138
V}
tp1803
a(g6
V
tp1804
a(g6
V-f
p1805
tp1806
a(g6
V

tp1807
a(g6
Vlib
p1808
tp1809
a(g138
V${
p1810
tp1811
a(g100
VPYTHON_VERSION
p1812
tp1813
a(g138
V}
tp1814
a(g6
V.so
p1815
tp1816
a(g6
V
tp1817
a(g6
Vlib
p1818
tp1819
a(g138
V${
p1820
tp1821
a(g100
VPYTHON_VERSION
p1822
tp1823
a(g138
V}
tp1824
a(g6
V.so.1;
p1825
tp1826
a(g6
V
tp1827
a(g262
V\u005c\u000a
p1828

tp1829
a(g6
V
tp1830
a(g138
V${
p1831
tp1832
a(g100
VLN
p1833
tp1834
a(g138
V}
tp1835
a(g6
V
tp1836
a(g6
V-f
p1837
tp1838
a(g6
V
tp1839
a(g6
Vpython
p1840
tp1841
a(g6
V
tp1842
a(g138
V${
p1843
tp1844
a(g100
VPYTHON_VERSION
p1845
tp1846
a(g212
V:
tp1847
a(g100
VS
tp1848
a(g212
V/thon/thon-shared/

p1849
tp1850
a(g138
V}
tp1851
a(g6
V\u000a\u000a
p1852
tp1853
a(g6
Vpre-su-install:
p1854
tp1855
a(g6
V\u000a
tp1856
a(g27
V.for platform in ${PLATFORMS}\u000a
p1857
tp1858
a(g6
V
tp1859
a(g138
V${
p1860
tp1861
a(g100
VMKDIR
p1862
tp1863
a(g138
V}
tp1864
a(g6
V
tp1865
a(g138
V${
p1866
tp1867
a(g100
VPYTHONPREFIX_LIBDIR
p1868
tp1869
a(g138
V}
tp1870

a(g6
V/
tp1871
a(g138
V${
p1872
tp1873
a(g100
Vplatform
p1874
tp1875
a(g138
V}
tp1876
a(g6
V\u000a
tp1877
a(g27
V.for file in IN.py regen\u000a
p1878
tp1879
a(g6
V
tp1880
a(g138
V${
p1881
tp1882
a(g100
VINSTALL_DATA
p1883
tp1884
a(g138
V}
tp1885
a(g6
V
tp1886
a(g138
V${
p1887
tp1888
a(g100
VWRKSRC
p1889
tp1890
a(g138
V}

tp1891
a(g6
V/Lib/
p1892
tp1893
a(g138
V${
p1894
tp1895
a(g100
Vplatform
p1896
tp1897
a(g138
V}
tp1898
a(g6
V/
tp1899
a(g138
V${
p1900
tp1901
a(g100
Vfile
p1902
tp1903
a(g138
V}
tp1904
a(g6
V
tp1905
a(g262
V\u005c\u000a
p1906
tp1907
a(g6
V
p1908
tp1909
a(g138
V${
p1910
tp1911
a(g100
VPYTHONPREFIX_LIBDIR
p1912

tp1913
a(g138
V}
tp1914
a(g6
V/
tp1915
a(g138
V${
p1916
tp1917
a(g100
Vplatform
p1918
tp1919
a(g138
V}
tp1920
a(g6
V/
tp1921
a(g6
V\u000a
tp1922
a(g27
V.endfor\u000a
p1923
tp1924
a(g6
V
tp1925
a(g27
V.endfor\u000a
p1926
tp1927
a(g6
V\u000a
tp1928
a(g6
Vpre-install:
p1929
tp1930
a(g6
V\u000a
p1931
tp1932
a(g138
V${

p1933
tp1934
a(g100
VCAT
p1935
tp1936
a(g138
V}
tp1937
a(g6
V
tp1938
a(g138
V${
p1939
tp1940
a(g100
VPLIST_TEMPLATE
p1941
tp1942
a(g138
V}
tp1943
a(g6
V
tp1944
a(g6
V|
tp1945
a(g6
V
tp1946
a(g138
V${
p1947
tp1948
a(g100
VAWK
p1949
tp1950
a(g138
V}
tp1951
a(g6
V
tp1952
a(g281
V'{ print $$0; } \u005c\u000a /LIBDIR.*\u005c.py$$/ && !/\u005c/bad/ { print $$0 "o"; print $$0 "c"; }'

p1953
tp1954
a(g6
V
tp1955
a(g6
V>
tp1956
a(g6
V
tp1957
a(g138
V${
p1958
tp1959
a(g100
VPLIST
p1960
tp1961
a(g138
V}
tp1962
a(g6
V\u000a\u000a
p1963
tp1964
a(g24
V @# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\u000a
p1965
tp1966
a(g6
V
tp1967
a(g353
V(
tp1968
a(g353
V[
tp1969
a(g6
V
tp1970
a(g6
V-f
p1971
tp1972
a(g6
V

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

a(g138
V}
tp1995
a(g6
V
tp1996
a(g6
V-v
p1997
tp1998
a(g6
V
tp1999
a(g281
V'lib-dynload/_sha'
p2000
tp2001
a(g6
V
tp2002
a(g138
V${
p2003
tp2004
a(g100
VPLIST
p2005
tp2006
a(g138
V}
tp2007
a(g6
V
tp2008
a(g6
V>
tp2009
a(g6
V
tp2010
a(g138
V${
p2011
tp2012
a(g100
VPLIST
p2013
tp2014

a(g138
V}
tp2015
a(g6
V.tmp
p2016
tp2017
a(g6
V
tp2018
a(g353
V&&
p2019
tp2020
a(g6
V
tp2021
a(g262
V\u005c\u000a
p2022
tp2023
a(g6
V
p2024
tp2025
a(g138
V${
p2026
tp2027
a(g100
VCAT
p2028
tp2029
a(g138
V}
tp2030
a(g6
V
tp2031
a(g138
V${
p2032
tp2033
a(g100
VPLIST
p2034
tp2035
a(g138

V}
tp2036
a(g6
V.tmp
p2037
tp2038
a(g6
V
tp2039
a(g6
V>
tp2040
a(g6
V
tp2041
a(g138
V${
p2042
tp2043
a(g100
VPLIST
p2044
tp2045
a(g138
V}
tp2046
a(g353
V)
tp2047
a(g6
V
tp2048
a(g353
V||
p2049
tp2050
a(g6
V
tp2051
a(g138
V${
p2052
tp2053
a(g100
VTRUE
p2054
tp2055
a(g138

V}
tp2056
a(g6
V\u000a\u000a
p2057
tp2058
a(g6
Vpost-install:
p2059
tp2060
a(g6
V\u000a
tp2061
a(g24
V @# install config providers\u000a
p2062
tp2063
a(g6
V
tp2064
a(g138
V${
p2065
tp2066
a(g100
VINSTALL_SCRIPT
p2067
tp2068
a(g138
V}
tp2069
a(g6
V
tp2070
a(g138
V${
p2071
tp2072
a(g100
VWRKDIR
p2073
tp2074
a(g138
V}
tp2075
a(g6
V/
tp2076

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
V${
p2100
tp2101
a(g100
VWRKDIR
p2102
tp2103
a(g138
V}
tp2104
a(g6
V/
tp2105
a(g138
V${
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
V${
p2118

tp2119
a(g100
VPREFIX
p2120
tp2121
a(g138
V}
tp2122
a(g6
V/bin
p2123
tp2124
a(g6
V\u000a\u000a
p2125
tp2126
a(g24
V @# shared version of executable and library\u000a
p2127
tp2128
a(g6
V
tp2129
a(g138
V${
p2130
tp2131
a(g100
VINSTALL_PROGRAM
p2132
tp2133
a(g138
V}
tp2134
a(g6
V
tp2135
a(g138
V${
p2136
tp2137
a(g100
VSHARED_WRKSRC
p2138
tp2139
a(g138
V}
tp2140

a(g6
V/lib
p2141
tp2142
a(g138
V${
p2143
tp2144
a(g100
VPYTHON_VERSION
p2145
tp2146
a(g138
V}
tp2147
a(g6
V.so.1
p2148
tp2149
a(g6
V
tp2150
a(g262
V\u005c\u000a
p2151
tp2152
a(g6
V
p2153
tp2154
a(g138
V${
p2155
tp2156
a(g100
VPREFIX
p2157
tp2158
a(g138
V}
tp2159
a(g6
V/lib
p2160
tp2161
a(g6
V\u000a
p2162

tp2163
a(g84
Vcd
p2164
tp2165
a(g6
V
tp2166
a(g138
V${
p2167
tp2168
a(g100
VPREFIX
p2169
tp2170
a(g138
V}
tp2171
a(g6
V/lib;
p2172
tp2173
a(g6
V
tp2174
a(g138
V${
p2175
tp2176
a(g100
VLN
p2177
tp2178
a(g138
V}
tp2179
a(g6
V
tp2180
a(g6
V-sf
p2181
tp2182
a(g6
V
tp2183
a(g6

Vlib
p2184
tp2185
a(g138
V${
p2186
tp2187
a(g100
VPYTHON_VERSION
p2188
tp2189
a(g138
V}
tp2190
a(g6
V.so.1
p2191
tp2192
a(g6
V
tp2193
a(g262
V\u005c\u000a
p2194
tp2195
a(g6
V
p2196
tp2197
a(g6
Vlib
p2198
tp2199
a(g138
V${
p2200
tp2201
a(g100
VPYTHON_VERSION
p2202
tp2203
a(g138
V}
tp2204
a(g6
V.so
p2205
tp2206

a(g6
V\u000a
p2207
tp2208
a(g138
V${
p2209
tp2210
a(g100
VLN
p2211
tp2212
a(g138
V}
tp2213
a(g6
V
tp2214
a(g6
V-sf
p2215
tp2216
a(g6
V
tp2217
a(g138
V${
p2218
tp2219
a(g100
VPREFIX
p2220
tp2221
a(g138
V}
tp2222
a(g6
V/lib/lib
p2223
tp2224
a(g138
V${
p2225
tp2226
a(g100
VPYTHON_VERSION
p2227
tp2228

a(g138
V}
tp2229
a(g6
V.so
p2230
tp2231
a(g6
V
tp2232
a(g138
V${
p2233
tp2234
a(g100
VPYTHONPREFIX_LIBDIR
p2235
tp2236
a(g138
V}
tp2237
a(g6
V/config
p2238
tp2239
a(g6
V\u000a
p2240
tp2241
a(g138
V${
p2242
tp2243
a(g100
VINSTALL_PROGRAM
p2244
tp2245
a(g138
V}
tp2246
a(g6
V
tp2247
a(g262
V\u005c\u000a
p2248
tp2249
a(g6

V
p2250
tp2251
a(g138
V${
p2252
tp2253
a(g100
VSHARED_WRKSRC
p2254
tp2255
a(g138
V}
tp2256
a(g6
V/
tp2257
a(g138
V${
p2258
tp2259
a(g100
VPYTHON_VERSION
p2260
tp2261
a(g212
V:
tp2262
a(g100
VS
tp2263
a(g212
V/thon/thon-shared/
p2264
tp2265
a(g138
V}
tp2266
a(g6
V
tp2267
a(g262
V\u005c\u000a
p2268
tp2269
a(g6
V
p2270

tp2271
a(g138
V${
p2272
tp2273
a(g100
VPREFIX
p2274
tp2275
a(g138
V}
tp2276
a(g6
V/bin
p2277
tp2278
a(g6
V\u000a\u000a
p2279
tp2280
a(g24
V @# additional files installing by ports\u000a
p2281
tp2282
a(g6
V
tp2283
a(g138
V${
p2284
tp2285
a(g100
VINSTALL_SCRIPT
p2286
tp2287
a(g138
V}
tp2288
a(g6
V
tp2289
a(g138
V${
p2290
tp2291
a(g100
VWRKDIR
p2292

tp2293
a(g138
V}
tp2294
a(g6
V/pydoc2.5
p2295
tp2296
a(g6
V
tp2297
a(g138
V${
p2298
tp2299
a(g100
VWRKDIR
p2300
tp2301
a(g138
V}
tp2302
a(g6
V/idle2.5
p2303
tp2304
a(g6
V
tp2305
a(g262
V\u005c\u000a
p2306
tp2307
a(g6
V
p2308
tp2309
a(g138
V${
p2310
tp2311
a(g100
VWRKDIR
p2312
tp2313
a(g138
V}
tp2314

a(g6
V/smtpd2.5.py
p2315
tp2316
a(g6
V
tp2317
a(g138
V${
p2318
tp2319
a(g100
VPREFIX
p2320
tp2321
a(g138
V}
tp2322
a(g6
V/bin
p2323
tp2324
a(g6
V\u000a
p2325
tp2326
a(g6
V@
tp2327
a(g138
V${
p2328
tp2329
a(g100
VMKDIR
p2330
tp2331
a(g138
V}
tp2332
a(g6
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tp2333
a(g138
V${
p2334
tp2335
a(g100

VMANPREFIX
p2336
tp2337
a(g138
V}
tp2338
a(g6
V/man/man1
p2339
tp2340
a(g6
V\u000a
p2341
tp2342
a(g138
V${
p2343
tp2344
a(g100
VINSTALL_MAN
p2345
tp2346
a(g138
V}
tp2347
a(g6
V
tp2348
a(g138
V${
p2349
tp2350
a(g100
VPYTHON_WRKSRC
p2351
tp2352
a(g138
V}
tp2353
a(g6
V/Misc/python.man
p2354
tp2355
a(g6
V
tp2356
a(g262
V\u005c\u000a

p2357
tp2358
a(g6
V
p2359
tp2360
a(g138
V${
p2361
tp2362
a(g100
VMANPREFIX
p2363
tp2364
a(g138
V}
tp2365
a(g6
V/man/man1/
p2366
tp2367
a(g138
V${
p2368
tp2369
a(g100
VPYTHON_VERSION
p2370
tp2371
a(g138
V}
tp2372
a(g6
V.1
p2373
tp2374
a(g6
V\u000a\u000a
p2375
tp2376
a(g27
V.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\u000a
p2377
tp2378
a(g6
V
tp2379
a(g138

Vfor
p2380
tp2381
a(g6
Vf
tp2382
a(g6
V
tp2383
a(g6
Vin
p2384
tp2385
a(g6
V
tp2386
a(g138
V${
p2387
tp2388
a(g100
VBIN_SCRIPTS
p2389
tp2390
a(g138
V}
tp2391
a(g6
V;
tp2392
a(g6
V
tp2393
a(g138
Vdo
p2394
tp2395
a(g6
V
tp2396
a(g262
V\u005c\u000a
p2397
tp2398
a(g6
V
p2399
tp2400

a(g100
VTARGET
p2401
tp2402
a(g353
V=
tp2403
a(g274
V`
tp2404
a(g138
V${
p2405
tp2406
a(g100
VECHO_CMD
p2407
tp2408
a(g138
V}
tp2409
a(g6
V
tp2410
a(g100
V$$
p2411
tp2412
a(g6
Vf
tp2413
a(g6
V
tp2414
a(g6
V|
tp2415
a(g6
V
tp2416
a(g138
V${
p2417
tp2418
a(g100
VSED
p2419
tp2420

a(g138
V}
tp2421
a(g6
V
tp2422
a(g6
V-E
p2423
tp2424
a(g6
V
tp2425
a(g138
V${
p2426
tp2427
a(g100
VBINLINKS_SUB
p2428
tp2429
a(g138
V}
tp2430
a(g274
V`
tp2431
a(g6
V;
tp2432
a(g6
V
tp2433
a(g262
V\u005c\u000a
p2434
tp2435
a(g6
V
p2436
tp2437
a(g84
Vcd
p2438
tp2439
a(g6
V
tp2440

a(g138
V${
p2441
tp2442
a(g100
VPREFIX
p2443
tp2444
a(g138
V}
tp2445
a(g6
V/bin
p2446
tp2447
a(g6
V
tp2448
a(g353
V&&
p2449
tp2450
a(g6
V
tp2451
a(g138
V${
p2452
tp2453
a(g100
VLN
p2454
tp2455
a(g138
V}
tp2456
a(g6
V
tp2457
a(g6
V-f
p2458
tp2459
a(g6
V
tp2460
a(g100
V$$

p2461
tp2462
a(g6
VTARGET
p2463
tp2464
a(g6
V
tp2465
a(g100
V$$
p2466
tp2467
a(g6
Vf;
p2468
tp2469
a(g6
V
tp2470
a(g262
V\u005c\u000a
p2471
tp2472
a(g6
V
tp2473
a(g138
Vdone
p2474
tp2475
a(g6
V\u000a
tp2476
a(g27
V.endif\u000a
p2477
tp2478
a(g6
V\u000a
tp2479
a(g27
V.if !defined(NOPORTDOCS)\u000a
p2480
tp2481
a(g6
V
tp2482

a(g6
V@
tp2483
a(g138
V${
p2484
tp2485
a(g100
VMKDIR
p2486
tp2487
a(g138
V}
tp2488
a(g6
V
tp2489
a(g138
V${
p2490
tp2491
a(g100
VTOOLSDIR
p2492
tp2493
a(g138
V}
tp2494
a(g6
V\u000a
p2495
tp2496
a(g6
V@cd
p2497
tp2498
a(g6
V
tp2499
a(g138
V${
p2500
tp2501
a(g100
VPYTHON_WRKSRC
p2502
tp2503
a(g138

V}
tp2504
a(g6
V;
tp2505
a(g6
V
tp2506
a(g138
V${
p2507
tp2508
a(g100
VTAR
p2509
tp2510
a(g138
V}
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tp2512
a(g6
V-cf
p2513
tp2514
a(g6
V
tp2515
a(g6
V-
tp2516
a(g6
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tp2517
a(g6
VTools
p2518
tp2519
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tp2520
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V|
tp2521
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V
tp2522

a(g262
V\u005c\u000a
p2523
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Vcd
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V${
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tp2532
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VTOOLSDIR
p2533
tp2534
a(g138
V}
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tp2536
a(g6
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tp2537
a(g138
V${
p2538
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a(g100
VTAR
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tp2541
a(g138
V}
tp2542
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tp2543
a(g6
V-xf
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tp2546
a(g6
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a(g353
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a(g6
V\u000a
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tp2550
a(g6
V@
tp2551
a(g138
V${
p2552
tp2553
a(g100
VMKDIR
p2554
tp2555
a(g138
V}
tp2556
a(g6
V
tp2557
a(g138
V${
p2558
tp2559
a(g100
VDEMODIR
p2560
tp2561
a(g138
V}
tp2562
a(g6
V\u000a

p2563
tp2564
a(g6
V@cd
p2565
tp2566
a(g6
V
tp2567
a(g138
V${
p2568
tp2569
a(g100
VPYTHON_WRKSRC
p2570
tp2571
a(g138
V}
tp2572
a(g6
V/Demo;
p2573
tp2574
a(g6
V
tp2575
a(g138
V${
p2576
tp2577
a(g100
VTAR
p2578
tp2579
a(g138
V}
tp2580
a(g6
V
tp2581
a(g6
V-cf
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tp2583
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tp2584

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tp2585
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tp2586
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tp2589
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V\u005c\u000a
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tp2594
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tp2595
a(g84
Vcd
p2596
tp2597
a(g6
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tp2598
a(g138
V${
p2599
tp2600
a(g100
VDEMODIR
p2601
tp2602
a(g138
V}
tp2603
a(g6

V;
tp2604
a(g6
V
tp2605
a(g138
V${
p2606
tp2607
a(g100
VTAR
p2608
tp2609
a(g138
V}
tp2610
a(g6
V
tp2611
a(g6
V-xf
p2612
tp2613
a(g6
V
tp2614
a(g6
V-
tp2615
a(g353
V)
tp2616
a(g6
V\u000a
tp2617
a(g27
V.endif\u000a
p2618
tp2619
a(g6
V\u000a
p2620
tp2621
a(g6
V@
tp2622
a(g138
V${

p2623
tp2624
a(g100
VCAT
p2625
tp2626
a(g138
V}
tp2627
a(g6
V
tp2628
a(g138
V${
p2629
tp2630
a(g100
VPKGMESSAGE
p2631
tp2632
a(g138
V}
tp2633
a(g6
V\u000a\u000a
p2634
tp2635
a(g27
V.include <bsd.port.post.mk>\u000a
p2636
tp2637
a(g6
V
tp2638
a.

1.66 python-PyJWT 1.5.3 :1

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1.67 python-pyudev 0.21.0 :1

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1.68 python-scoketio 1.7.1

1.68.1 Available under license :

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1.69 python-tabulate 0.7.5

1.69.1 Available under license :

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1.70 PyYAML 3.13

1.70.1 Available under license :

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1.71 pyzmq 16.0.2

1.71.1 Available under license :

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The "source code" for a work means the preferred form of the work

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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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1.84 td-agent 2.3.6

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

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1.86 Telegraf 1.9.0

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1.90 urllib3 1.22

1.91 vmtp 2.5.0 :5.el7_osp8.cisco

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```
/*
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*
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*
* Based on nttcp
* 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 -Wmisleading-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 nuttscp bug seen with --copy-dir getting premature EOF
* Updated Copyright notice for new year
* Whitespace style cleanups
* 7.1.5, Rob Scott, 19-Jul-11
* Not every system has ERESTART added in 7.1.4, wrapped in ifdef
* 7.1.4, Bill Fink, 30-May-11
* Updated Copyright notice
* Use -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 "-xc" option adding extraneous 't' character
* Add optional client-side name resolution for third party host
* Add "-N##m" option for multilink aggregation for multiple streams
* Add "-xc#/#" and "-P#/#" options to Usage: statement
* Some minor whitespace cleanup
* 7.0.1, Bill Fink, 18-Sep-09
* Enable jitter measurements with "-j" option
* Enable one-way delay measurements with "-o" option
* Fix bug with RTT and -fparse
* 6.2.10, Bill Fink, 1-Aug-09
* Change ctl/data port checks to < 1024 instead of < 5000
* Fix "--idle-data-timeout" Usage: statement for new default minimum
* Improve transmit performance with "-i" by setting poll() timeout to 0
* Remove commented out code for unused normal_eod
* Don't output interval retrans info if non-sinkmode (for nuttscp)
* 6.2.9, Bill Fink, 24-Jun-09
* Make retrans info reporting work again on newer Linux distros
* Skip check for unACKed data at end of transfer if -DBROKEN_UNACKED
* 6.2.8, Bill Fink, 8-Jun-09
* Play nice with iperf (change default data port to 5101)
* Delay sending of server "OK" until after successful server bind()
* Client check for server errors before starting data transfer
* Continue checking for server output while draining client transmission
* Correct "server not ACKing data" error message (server -> receiver)
* Add "--packet-burst" option for Rob
* Fix "--idle-data-timeout" Usage: statement for client
* Improve accuracy of retrans info timing synchronization (client xmitter)
* Change reference to nuttcp repository from ftp:// to http://
* Fix bug affecting nuttscp introduced in 6.2.4 (not honoring oneshot)
* Whitespace cleanup: get rid of <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 ("-Rixxx/n")
* Fix several reqval parameter settings
* 6.2.6, Bill Fink, 17-Apr-09
* Allow setting server CPU affinity from client via "-xcs" option
* Allow setting client & server CPU affinity via third party
* Fix bug with option processing when reqval is set
* 6.2.5, Bill Fink, 16-Apr-09

* Allow passing of third party control port via "-Pctlport/ctlport3"
* Up default idle data minimum to 15 sec to better handle net transients
* Don't reset nstream until after last use (fix getaddrinfo() memory leak)
* 6.2.4, Bill Fink, 10-Apr-09
* Fix bug with simultaneous server connections to manually started server
* 6.2.3, Bill Fink, 5-Apr-09
* Add "-xc" option to set CPU affinity (Linux only)
* Fix Usage: statement: "--idle-data-timeout" both server & client option
* Don't reset priority on server cleanup
* Fix priority output for "-fparse"
* 6.2.2, Bill Fink, 3-Apr-09
* Fix bad third party bug causing >= 1 minute transfers to silently fail
* Fix Usage: statement: "--idle-data-timeout" not just a server option
* 6.2.1, Rob Scott, 22-Mar-09
* Added IPv6 and SSM MC support
* Ported from Rob's 5.5.5 based code by Bill Fink
* 6.1.5, Bill Fink, 5-Mar-09
* Fix client lockup with third party when network problem (for scripts)
* 6.1.4, Bill Fink, 5-Jan-09
* Updated Copyright notice
* Bugfix: set chk_idle_data on client (now also checks no data received)
* Use argv[0] instead of "nuttcp" for third party
* Bugfix: give error message again on error starting server
* 6.1.3, Bill Fink, 17-Sep-08
* Timeout client accept() too and give nice error message (for scripts)
* 6.1.2, Bill Fink, 29-Aug-08
* Don't wait forever for unacked data at EOT (limit to 1 minute max)
* Extend no data received protection to client too (for scripts)
* Give nice error messages to client for above cases
* Don't hang getting server info if server exited (timeout reads)
* 6.1.1, Bill Fink, 26-Aug-08
* Remove beta designation
* Report RTT by default (use "-f-rtt" to suppress)
* Moved RTT info to "connect to" line
* Correct bogus IP frag warning for e.g. "-l1472" or "-l8972"
* Don't report interval host-retrans if no data rcvd (e.g. initial PMTU)
* Correct reporting of retrans info with "-fparse" option
* Correct reporting of RTT with "-F" flip option
* Report doubled send and receive window sizes (for Linux)
* Add report of available send and receive window sizes (for Linux)
* Touchup TODO list to remove some already completed items
* 6.0.7, Bill Fink, 19-Aug-08
* Add delay (default 0.5 sec) to "-a" option & change max retries to 10
* Updated Copyright notice
* 6.0.6, Bill Fink, 11-Aug-08
* Delay server forking until after listen() for better error status
* Above suggested by Hans Blom (jblom@science.uva.nl)
* Make forced server mode the default behavior

* Check address family on getpeername() so "ssh host nuttcp -S" works
* Add setsid() call for manually started server to create new session
* Some minor code cleanup
* 6.0.5, Bill Fink, 10-Aug-08
* Allow "-s" from/to stdin/stdout with "-1" oneshot server mode
* Switch beta vers message to stderr to not interfere with "-s" option
* Don't set default timeout if "-s" specified
* Give error message for "-s" with "-S" (xinetd or manually started)
* 6.0.4, Bill Fink, 18-Jul-08
* Forgot about 3rd party support for RTT info - fix that
* 6.0.3, Bill Fink, 17-Jul-08
* A better (and accurate) way to get RTT info (and not just Linux)
* 6.0.2, Bill Fink, 16-Jul-08
* Add RTT info to brief output for Linux
* 6.0.1, Bill Fink, 17-Dec-07
* Add reporting of TCP retransmissions (interval reports on Linux TX only)
* Add reporting of data transfer RTT for verbose Linux output
* Add beta version messages and "-f-beta" option to suppress
* Automatically switch "classic" mode to oneshot server mode
* Fix UDP loss info bug not updating stream_idx when not need_swap
* Fix compiler warning doing sprintf of timeout
* Correct comment on NODROPS define
* 5.5.5, Bill Fink, 1-Feb-07
* Change default MC addr to be based on client addr instead of xmit addr
* 5.5.4, Bill Fink, 3-Nov-06
* Fix bug with negative loss causing huge drop counts on interval reports
* Updated Copyright notice and added GPL license notice
* 5.5.3, Bill Fink, 23-Oct-06
* Fix bug with "-Ri" instantaneous rate limiting not working properly
* 5.5.2, Bill Fink, 25-Jul-06
* Make manually started server multi-threaded
* Add "--single-threaded" server option to restore old behavior
* Add "-a" client option to retry a failed server connection "again"
* (for certain possibly transient errors)
* 5.5.1, Bill Fink, 22-Jul-06
* Fix bugs with nbuf_bytes and rate_pps used with 3rd party
* Pass "-D" option to server (and also make work for third party)
* Allow setting precedence with "-c##p"
* 5.4.3, Rob Scott & Bill Fink, 17-Jul-06
* Fix bug with buflen passed to server when no buflen option speicified
* (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 "-SP" to have 3rd party use same outgoing control port as incoming
* V5.1.2, Bill Fink & Rob Scott, 18-Mar-04
* Fix bug with nbuf wrapping on really long transfers (int -> uint64_t)
* Fix multicast address to be unsigned long to allow shift
* Add MacOS uint8_t definition for new use of uint8_t
* V5.1.1, Bill Fink, 8-Nov-03
* Add IPv4 multicast support
* Delay receiver EOD until EOD1 (for out of order last data packet)
* Above also drains UDP receive buffer (wait for fragmentation reassembly)
* V5.0.4, Bill Fink, 6-Nov-03
* Fix bug reporting 0 drops when negative loss percentage
* V5.0.3, Bill Fink, 6-Nov-03
* Kill server transmission if control connection goes away
* Kill 3rd party nuttcp if control connection goes away
* V5.0.2, Bill Fink, 4-Nov-03
* Fix bug: some dummy wasn't big enough :-)
* V5.0.1, Bill Fink, 3-Nov-03
* Add third party support
* Correct usage statement for "-xt" traceroute option
* Improved error messages on failed options requiring client/server mode
* V4.1.1, David Lapsley and Bill Fink, 24-Oct-03
* Added "-fparse" format option to generate key=value parsable output
* Fix bug: need to open data connection on abortconn to clear listen
* V4.0.3, Rob Scott, 13-Oct-03
* Minor tweaks to output format for alignment
* Interval option "-i" with no explicit value sets interval to 1.0
* V4.0.2, Bill Fink, 10-Oct-03
* Changed "-xt" option to do both forward and reverse traceroute
* Changed to use brief output by default ("-v" for old default behavior)
* V4.0.1, Rob Scott, 10-Oct-03
* Added IPv6 code
* Changed inet get functions to protocol independent versions
* Added fakepoll for hosts without poll() (macosx)
* Added ifdefs 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 ifdefs 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 -h (usage) and -V (version) options
* Fixed SGI compilation warnings
* Added reporting server version to client
* Added version info and changed ttcp prints to nuttcp
* Fixed bug with inetd server and client using -r option
* Added ability to run server from inetd
* Added udp capability to server option
* Added -T option to set timeout interval
* Added -ws option to set server window
* Added -S option to support running receiver as daemon
* Allow setting UDP buflen up to MAXUDPBUFLEN
* Provide -b option for braindead Solaris 2.8
* Added printing of transmit rate limit
* Added -w option to usage statement
* Added -N option to support multiple streams
* Added -R transmit rate limit option
* Fix setting of destination IP address on 64-bit Irix systems

```
* Only set window size in appropriate direction to save memory
* Fix throughput calculation for large transfers (>= 2 GB)
* Fix reporting of Mb/s to give actual millions of bits per second
* Fix setting of INET address family in local socket
* Fix setting of receiver window size
*
* TODO/Wish-List:
* Transmit interval marking option
* Allow at least some traceroute options
* Add "-ut" option to do both UDP and TCP simultaneously
* Default rate limit UDP if too much loss
* Ping option
* Other brief output formats
* Linux window size bug/feature note
* Network interface interrupts (for Linux only)
* netstat -i info
* Man page
* Forking for multiple streams
* Bidirectional option
* Graphical interface
* MTU info
* Warning for window size limiting throughput
* Auto window size optimization
* Transmitter profile and playback options
* Server side limitations (per client host/network)
* Server side logging
* Client/server security (password)
* nuttcp server registration
* nuttcp proxy support (firewalls)
* nuttcp network idle time
*
* Distribution Status -
* OpenSource(tm)
* Licensed under version 2 of the GNU GPL
* Please send source modifications back to the authors
* Derivative works should be redistributed with a modified
* source and executable name
*/

/*
#ifndef lint
static char RCSid[] = "@(#)$Revision: 1.2 $ (BRL)";
#endif
*/

#ifdef 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 */

#include <limits.h>
#include <string.h>
#include <fcntl.h>

#if defined(linux)
#include <sys/stat.h>
#include <sys/sendfile.h>
#include <sys/ioctl.h>
#include <linux/sockios.h>
#endif

/* Let's try changing the previous unwieldy check */
/* #if defined(linux) || defined(__FreeBSD__) || defined (sgi) || (defined(__MACH__) && defined(_SOCKLEN_T))
|| defined(sparc) || defined(__CYGWIN__) */
/* to the following (hopefully equivalent) simpler form like we use
* for HAVE_POLL */
```

```
#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

#ifdef HAVE_CLOCK_GETTIME
#include <time.h>  /* clock_gettime */
#endif

#ifndef ULLONG_MAX
#define ULLONG_MAX 18446744073709551615ULL
#endif

#define MAXRATE 0xffffffffUL

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

#if defined(linux)
#define HAVE_SETAFFINITY
#endif

#if !defined(_WIN32) && (!defined(__MACH__) || defined(_SOCKLEN_T))
#define HAVE_POLL
#endif

#if defined(__APPLE__) && defined(__MACH__)
#define uint64_t u_int64_t
#define uint32_t u_int32_t
#define uint16_t u_int16_t
#define uint8_t u_int8_t
#endif

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

```
#endif

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

#ifndef CPU_SETSIZE
#undef HAVE_SETAFFINITY
#endif

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

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

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

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

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

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

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

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

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

#define PERF_FMT_OUT   "%.4f MB in %.2f real seconds = %.2f KB/sec" \
    " = %.4f Mbps\n"
#define PERF_FMT_BRIEF   "%10.4f MB / %6.2f sec = %9.4f Mbps %d %%TX %d %%RX"
#define PERF_FMT_BRIEF2   "%10.4f MB / %6.2f sec = %9.4f Mbps %d %%%s"
#define PERF_FMT_BRIEF3   " Trans: %.4f MB"
#define PERF_FMT_INTERVAL  "%10.4f MB / %6.2f sec = %9.4f Mbps"
#define PERF_FMT_INTERVAL2 " Tot: %10.4f MB / %6.2f sec = %9.4f Mbps"
#define PERF_FMT_INTERVAL3 " Trans: %10.4f MB"
#define PERF_FMT_INTERVAL4 " Tot: %10.4f MB"
#define PERF_FMT_IN   "%lf MB in %lf real seconds = %lf KB/sec = %lf Mbps\n"
#define CPU_STATS_FMT_IN  "%*fuser %*fsys %*d:%*dreal %d%%"
#define CPU_STATS_FMT_IN2 "%*fuser %*fsys %*d:%*d:%*dreal %d%%"

#define LOSS_FMT " %.2f%% data loss"
#define LOSS_FMT_BRIEF " %.2f %%loss"
#define LOSS_FMT_INTERVAL " %5.2f ~%%loss"
#define LOSS_FMT5 " %.5f%% data loss"
#define LOSS_FMT_BRIEF5 " %.5f %%loss"
#define LOSS_FMT_INTERVAL5 " %7.5f ~%%loss"
#define DROP_FMT " %lld / %lld drop/pkt"
#define DROP_FMT_BRIEF " %lld / %lld drop/pkt"
#define DROP_FMT_INTERVAL " %5lld / %5lld ~drop/pkt"
#define JITTER_MIN  1
#define JITTER_AVG  2
#define JITTER_MAX  4
#define JITTER_IGNORE_OOO 8
#define JITTER_FMT "min-jitter = %.4f ms, avg-jitter = %.4f ms, " \
   "max-jitter = %.4f ms"
#define JITTER_MIN_FMT_BRIEF " %.4f msMinJitter"
#define JITTER_AVG_FMT_BRIEF " %.4f msAvgJitter"
```

```
#define JITTER_MAX_FMT_BRIEF " %.4f msMaxJitter"
#define JITTER_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_MIN   1
#define OWD_AVG   2
#define OWD_MAX   4
#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_IN "RTT=%lf"
#define RTT_FMT_INB "RTT = %lf"
#define SIZEOF_TCP_INFO_RETRANS  104

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

#ifndef NEW_TCP_INFO
```

```
#define OLD_TCP_INFO
#endif

/* Parsable output formats */

#define P_PERF_FMT_OUT   "megabytes=%.4f real_seconds=%.2f " \
    "rate_KBps=%.2f rate_Mbps=%.4f\n"
#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   "megabytes=%lf real_seconds=%lf rate_KBps=%lf " \
    "rate_Mbps=%lf\n"
#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"

#ifndef MAXSTREAM
#define MAXSTREAM  128
#endif
#define DEFAULT_NBUF  2048
#define DEFAULT_NBYTES  134217728 /* 128 MB */
#define DEFAULT_TIMEOUT  10.0
#define DEFAULT_UDP_RATE 1000
#define DEFAULTUDPBUFLEN 8192
#define DEFAULT_MC_UDPBUFLEN 1024
#define MAXUDPBUFLEN  65507
#define LOW_RATE_HOST3  1000
#define MINMALLOC  1024
#define HI_MC   231ul
#define HI_MC_SSM  232ul
/* locally defined global scope IPv6 multicast, FF3E::8000:0-FF3E::FFFF:FFFF */
#define HI_MC6   "FF3E::8000:0000"
#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
#define MAX_EOT_WAIT_SEC 60.0 /* max wait for unsent data at EOT */
#define SRVR_INFO_TIMEOUT 60 /* timeout for reading server info */
#define IDLE_DATA_MIN  15.0 /* minimum value for chk_idle_data */
#define DEFAULT_IDLE_DATA 30.0 /* default value for chk_idle_data */
#define IDLE_DATA_MAX  60.0 /* maximum value for chk_idle_data */
#define NON_JUMBO_ETHER_MSS 1448 /* 1500 - 20:IP - 20:TCP -12:TCPOPTS */
#define TCP_UDP_HDRLEN_DELTA 12 /* difference in tcp & udp hdr sizes */
#define TCP_TIMESTAMPS_OPTLEN 12 /* size of TCP timestamps options */
```

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

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

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

#ifdef NO_IPV6    /* Build without IPv6 support */
#undef AF_INET6
#undef IPV6_V6ONLY
#endif

void sigpipe( int signum );
void sigint( int signum );
void ignore_alarm( int signum );
void sigalarm( int signum );
static void err( char *s );
static void mes( char *s );
static void errmes( char *s );
void pattern( char *cp, int cnt );
void get_timeofday( struct timeval *tv, struct timezone *tz );
void prep_timer();
double read_timer( char *str, int len );
static void prusage( struct rusage *r0,  struct rusage *r1, struct timeval *e, struct timeval *b, char *outp );
static void tvadd( struct timeval *tsum, struct timeval *t0, struct timeval *t1 );
static void tvsub( struct timeval *tdiff, struct timeval *t1, struct timeval *t0 );
```

```
static void psecs( long l, char *cp );
int Nread( int fd, char *buf, int count );
int Nwrite( int fd, char *buf, int count );
int delay( int us );
int mread( int fd, char *bufp, unsigned n );
int mwrite( int fd, char *bufp, unsigned n, int last_write );
char *getoptvalp( char **argv, int index, int reqval, int *skiparg );

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

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

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

#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_TIMESTAMPS)
#ifdef OLD_TCP_INFO
#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  tcpi_state
#define tcpinfo_ca_state tcpi_ca_state
#define tcpinfo_retransmits tcpi_retransmits
#define tcpinfo_unacked  tcpi_unacked
#define tcpinfo_sacked  tcpi_sacked
#define tcpinfo_lost  tcpi_lost
#define tcpinfo_retrans  tcpi_retrans
#define tcpinfo_fackets  tcpi_fackets
#define tcpinfo_rtt  tcpi_rtt
```

```
#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 srcctlport = 0; /* TCP source port for server connection */
```

```
unsigned short ctlport3 = 0; /* control port for 3rd party server conn */
int tmpport;
char *host;   /* ptr to name of host */
char *stride = NULL;  /* ptr to address stride for multi-stream */
char *host3 = NULL;  /* ptr to 3rd party host */
int thirdparty = 0;  /* set to 1 indicates doing 3rd party nuttcp */
int no3rd = 0;   /* set to 1 by server to disallow 3rd party */
int forked = 0;   /* set to 1 after server has forked */
int pass_ctlport = 0;  /* set to 1 to use same outgoing control port
      as incoming with 3rd party usage */
char *nut_cmd;   /* command used to invoke nuttcp */
char *cmdargs[50];  /* command arguments array */
char tmpargs[50][50];

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

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

char hostbuf[ADDRSTRLEN]; /* buffer to hold text of address */
char host3addr[ADDRSTRLEN]; /* buffer to hold text of 3rd party address */
char host3buf[HOST3BUFLEN + 1]; /* buffer to hold 3rd party name or address */
char clientbuf[NI_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 */
#if 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 iratesss = 0;  /* set if emulating smoothed slow start */
double pkt_time;  /* packet transmission time in seconds */
double pkt_time_ms;  /* packet transmission time in milliseconds */
uint64_t irate_pk_usec;  /* packet transmission time in microseconds */
double irate_pk_nsec;  /* nanosecond portion of pkt xmit time */
```

```
double irate_cum_nsec = 0.0; /* cumulative nanaseconds 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 */
#ifdef AF_INET6
struct ipv6_mreq mc6_group; /* holds multicast group address */
#endif
#ifdef MCAST_JOIN_SOURCE_GROUP
struct group_source_req group_source_req;  /* holds multicast SSM group and */
      /* source information */
#endif

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

/* affinity and srvr_affinity need to be defined even if don't
* HAVE_SETAFFINITY, to make parameter passing between client and
* server work out OK, since far end may HAVE_SETAFFINITY
*
```

```
* they are set to -1 so they have no effect even if don't
* HAVE_SETAFFINITY
*/
int affinity = -1;  /* nuttcp process CPU affinity */
int srvr_affinity = -1;  /* nuttcp server process CPU affinity */

#ifdef HAVE_SETAFFINITY
int ncores = 1;   /* number of CPU cores */
cpu_set_t cpu_set;  /* processor CPU set */
#endif

long timeout_sec = 0;
struct itimerval itimer; /* for setitimer */
int srvr_helo = 1;  /* set to 0 if server doesn't send HELO */
char ident[40 + 1 + 1] = ""; /* identifier for nuttcp output */
int intr = 0;
int abortconn = 0;
int braindead = 0;  /* for braindead Solaris 2.8 systems */
int brief = 1;   /* set for brief output */
int brief3 = 1;   /* for third party nuttcp */
int done = 0;   /* don't output interval report if done */
int got_begin = 0;  /* don't output interval report if not begun */
int two_bod = 0;  /* newer versions send 2 BOD packets for UDP */
int handle_urg = 0;  /* newer versions send/recv urgent TCP data */
int got_eod0 = 0;  /* got EOD0 packet - marks end of UDP xfer */
int buflenopt = 0;  /* whether or not user specified buflen */
int haverateopt = 0;  /* whether or not user specified rate */
int clientserver = 0;  /* client server mode (use control channel) */
int client = 0;   /* 0=server side, 1=client (initiator) side */
int oneshot = 0;  /* 1=run server only once */
int inetd = 0;   /* set to 1 if server run from inetd */
pid_t pid;   /* process id when forking server process */
pid_t wait_pid;   /* return of wait system call */
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[] = "\
Usage: nuttcp or nuttcp -h prints this usage info\n\
Usage: nuttcp -V  prints version info\n\
Usage: nuttcp -xt [-m] host forward and reverse traceroute to/from server\n\
Usage (transmitter): nuttcp [-t] [-options] [ctl_addr/]host [3rd-party] [<in]\n\
    |(receiver):   nuttcp -r [-options] [host] [3rd-party] [>out]\n\
 -4 Use IPv4\n"
#ifdef AF_INET6
" -6 Use IPv6\n"
#endif
" -c## cos dscp value on data streams (t|T suffix for full TOS field)\n\
 -l## length of network write|read buf (default 1K|8K/udp, 64K/tcp)\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
" -s use stdin|stdout for data input|output instead of pattern data\n"
#endif
" -n## number of source bufs written to network (default unlimited)\n\
 -w## transmitter|receiver window size in KB (or (m|M)B or (g|G)B)\n\
 -ws## server receive|transmit window size in KB (or (m|M)B or (g|G)B)\n\
 -wb braindead 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\
 -u use UDP instead of TCP\n\
 -m## use multicast with specified TTL instead of unicast (UDP)\n\
 -gxxx user specified multicast IP address for -m option\n\
 -M## MSS for data connection (TCP)\n\
 -N## number of streams (starting at port number), implies -B\n\
 -R## transmit rate limit in Kbps (or (m|M)bps or (g|G)bps or (p)ps)\n\
 -Ri#[/#] instantaneous rate limit with optional packet burst\n"
#if defined(linux)
" -Ris##  emulated smoothed slow start option for -Ri option (TCP)\n"
#endif
" -T## transmit timeout in seconds (or (m|M)inutes or (h|H)ours)\n\
 -j enable jitter measurements (assumes -u and -Ri options)\n\
 -o enable one-way delay reports (needs synchronized clocks)\n\
 -i## receiver interval reporting in seconds (or (m|M)inutes)\n\
 -Ixxx identifier for nuttcp output (max of 40 characters)\n\
 -F flip option to reverse direction of data connection open\n\
 -a retry failed server connection \"again\" for transient errors\n"
#ifdef HAVE_SETPRIO
" -xP## set nuttcp process priority (must be root)\n"
```

```
#endif
#ifdef HAVE_SETAFFINITY
" -xc## set nuttcp client process CPU affinity\n"
" -xcs## set nuttcp server process CPU affinity\n"
" -xc#/# set nuttcp client/server process CPU affinity\n"
#endif
" -d set TCP SO_DEBUG option on data socket\n\
 -v[v] verbose [or very verbose] output\n\
 -b 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
" -D xmit only: don't buffer TCP writes (sets TCP_NODELAY sockopt)\n\
 -B recv only: only output full blocks of size from -l## (for TAR)\n"
" --packet-burst packet burst value for instantaneous rate limit option\n"
" --idle-data-timeout <value|minimum/default/maximum>  (default: 15/30/60)\n"
"       client timeout in seconds for idle data connection\n"
#ifdef IPV6_V6ONLY
" --disable-v4-mapped disable v4 mapping in v6 server (default)\n"
" --enable-v4-mapped enable v4 mapping in v6 server\n"
#endif
"\n\
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\
 -4 Use IPv4 (default)\n"
#ifdef AF_INET6
" -6 Use IPv6\n"
#endif
" -1 oneshot 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
" -s use 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"
#ifdef HAVE_SETPRIO
" -xP## set nuttcp process priority (must be root)\n"
#endif
#ifdef HAVE_SETAFFINITY
" -xc## set nuttcp server process CPU affinity\n"
#endif
" --idle-data-timeout <value|minimum/default/maximum>  (default: 15/30/60)\n"
"       server timeout in seconds for idle data connection\n"
```

```
" --no3rdparty don't allow 3rd party capability\n"
" --nofork     don't fork server\n"
" --single-threaded  make manually started server be single threaded\n"
#ifdef IPV6_V6ONLY
" --disable-v4-mapped disable v4 mapping in v6 server (default)\n"
" --enable-v4-mapped enable v4 mapping in v6 server\n"
#endif
"\n\
Multilink aggregation options (TCP only):\n\
  nuttcp [-options] -N##  [ctl_addr]/host1/host2/.../host## (xmit only)\n\
  nuttcp [-options] -N##  [ctl_addr/]host+addr_stride (IPv4 only)\n\
  nuttcp [-options] -N##  [ctl_addr/]host+n.n.n.n (IPv4 only)\n\
  nuttcp [-options] -N##m [ctl_addr/]host\n\
     where host resolves to multiple addresses\n\
\n\
   separate [ctl_addr/] option available only for xmit\n\
\n\
Format options:\n\
 -fxmitstats also give transmitter stats (MB) with -i (UDP only)\n\
 -frunningtotal also give cumulative stats on interval reports\n\
 -f-drops don't give packet drop info on brief output (UDP)\n\
 -f-retrans don't give retrans info on brief output (TCP)\n"
#if defined(linux)
" -f-cwnd  don't give cwnd info on brief output (TCP)\n"
#endif
" -f-percentloss don't give %%loss info on brief output (UDP)\n\
 -fparse  generate key=value parsable output\n\
 -f-beta  suppress beta version message\n\
 -f-rtt  suppress RTT info \n\
";

char stats[128];
char srvrbuf[4096];
char tmpbuf[257];
uint64_t nbytes = 0;  /* bytes on net */
int64_t pbytes = 0;  /* previous bytes - for interval reporting */
int64_t ntbytes = 0;  /* bytes sent by transmitter */
int64_t ptbytes = 0;  /* previous bytes sent by transmitter */
uint64_t 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" */
```

```
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;
int srvr_cpu_util;

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

void
close_data_channels()
```

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

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

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

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

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

void
sigint( int signum )
{
 signal(SIGINT, SIG_DFL);
 fputs("\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, deltatbytes;
 double fractloss;
 int nodata;
 int i;
 char *cp1, *cp2;
 short save_events;
 long flags, saveflags;

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

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

#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 > ntbytes) ||
       ((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 - ptbytes)/buflen);
 }
 if (!(format & NOPERCENTLOSS)) {
  deltarbytes = nrbytes - pbytes;
  deltatbytes = ntbytes - ptbytes;
  fractloss = (deltatbytes ?
   1.0 -
       (double)deltarbytes
    /(double)deltatbytes :
   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)];
 uint32_t ip32;
} ipad_stride;   /* IPv4 address stride */
short save_events;
int skiparg;
int reqval;
int got_srvr_retrans;
int got_srvr_cwnd;
uint32_t 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--;
```

```
 while (argc>0 && argv[0][0] == '-') {
  skiparg = 0;
  switch (argv[0][1]) {

  case '4':
   domain = PF_INET;
   af = AF_INET;
   explicitaf = 1;
   break;
#ifdef AF_INET6
  case '6':
   domain = PF_INET6;
   af = AF_INET6;
   explicitaf = 1;
   break;
#endif
  case 'B':
   b_flag = 1;
   break;
  case 't':
   trans = 1;
   break;
  case 'r':
   trans = 0;
   break;
  case 'd':
   options |= SO_DEBUG;
   break;
  case 'D':
   nodelay = 1;
   break;
  case 'n':
   reqval = 0;
   if (argv[0][2] == 'b') {
    fprintf(stderr, "option \"-nb\" no longer supported, use \"-n###[k|m|g|t|p]\" instead\n");
    fflush(stderr);
    exit(1);
   }
   cp1 = getoptvalp(argv, 2, reqval, &skiparg);
   nbuf = strtoull(cp1, NULL, 0);
   if (nbuf == 0) {
    if (errno == EINVAL) {
     fprintf(stderr, "invalid nbuf = %s\n",
      &argv[0][2]);
     fflush(stderr);
     exit(1);
    }
    else {
```

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

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

  if (*cp1)
   ch = *(cp1 + strlen(cp1) - 1);
  else
   ch = '\0';
  if ((ch == 'k') || (ch == 'K'))
   sendwin *= 1024;
  else if ((ch == 'm') || (ch == 'M'))
   sendwin *= 1048576;
```

```
    else if ((ch == 'g') || (ch == 'G'))
     sendwin *= 1073741824;
    else if ((ch != 'b') && (ch != 'B'))
     sendwin *= 1024;
    rcvwin = sendwin;
    if (sendwin < 0) {
     fprintf(stderr, "invalid sendwin = %d\n", sendwin);
     fflush(stderr);
     exit(1);
    }
   }
   if (srvrwin == -1) {
    srvrwin = sendwin;
   }
   break;
  case 's':
   sinkmode = 0; /* sink/source data */
#if defined(linux)
   if (strchr(argv[0], 'z'))
    zerocopy = 1;
   if (strchr(argv[0], 'd'))
    directio = 1;
#endif
   break;
  case 'p':
   reqval = 1;
   cp1 = getoptvalp(argv, 2, reqval, &skiparg);
   if ((cp2 = strchr(cp1, ':'))) {
    tmpport = atoi(cp1);
    if ((tmpport < 1024) || (tmpport > 65535)) {
     fprintf(stderr,
      "invalid source port = %d\n",
      tmpport);
     fflush(stderr);
     exit(1);
    }
    srcport = tmpport;
    cp1 = cp2 + 1;
   }
   tmpport = atoi(cp1);
   if ((tmpport < 1024) || (tmpport > 65535)) {
    fprintf(stderr, "invalid port = %d\n", tmpport);
    fflush(stderr);
    exit(1);
   }
   port = tmpport;
   break;
  case 'P':
```

```
 reqval = 1;
 cp1 = getoptvalp(argv, 2, reqval, &skiparg);
 if ((cp2 = strchr(cp1, ':'))) {
  tmpport = atoi(cp1);
  if ((tmpport < 1024) || (tmpport > 65535)) {
   fprintf(stderr,
    "invalid source "
    "control port = %d\n", tmpport);
   fflush(stderr);
   exit(1);
  }
  srcctlport = tmpport;
  cp1 = cp2 + 1;
 }
 tmpport = atoi(cp1);
 if ((tmpport < 1024) || (tmpport > 65535)) {
  fprintf(stderr,
   "invalid ctlport = %d\n", tmpport);
  fflush(stderr);
  exit(1);
 }
 ctlport = tmpport;
 if ((cp2 = strchr(argv[0], '/'))) {
  if (strchr(cp2, ':')) {
   fprintf(stderr,
    "can't specify source control "
    "port with third party\n");
   fflush(stderr);
   exit(1);
  }
  tmpport = atoi(cp2 + 1);
  if ((tmpport < 1024) || (tmpport > 65535)) {
   fprintf(stderr,
    "invalid third party "
    "ctlport = %d\n", tmpport);
   fflush(stderr);
   exit(1);
  }
  ctlport3 = tmpport;
 }
 break;
case 'u':
 udp = 1;
 if (!buflenopt) buflen = DEFAULTUDPBUFLEN;
 if (argv[0][2] == 'u') {
  haverateopt = 1;
  rate = MAXRATE;
 }
```

```
 break;
case 'j':
 reqval = 0;
 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);
```

```
    nstream = MAXSTREAM;
   }
   if (nstream > 1) {
    b_flag = 1;
    send_retrans = 0;
    read_retrans = 0;
    send_cwnd = 0;
    read_cwnd = 0;
   }
   break;
  case 'R':
   reqval = 1;
   haverateopt = 1;
   cp1 = getoptvalp(argv, 2, reqval, &skiparg);
   if (*cp1 == 'i') {
    cp1++;
    if (*cp1 == 's') {
     cp1++;
#if defined(linux)
     iratesss = 1;
#else
     fprintf(stderr, "smoothed slow start not supported for non-Linux\n");
     fflush(stderr);
#endif
    }
    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 = getoptvalp(argv, 2, reqval, &skiparg);
sscanf(cp1, "%lf", &timeout);
if (timeout < 0) {
 fprintf(stderr, "invalid timeout = %f\n", timeout);
 fflush(stderr);
 exit(1);
}
else if (timeout == 0.0)
 timeout = DEFAULT_TIMEOUT;
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;
```

```
#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;
```

```
   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(getoptvalp(argv, 3, reqval,
      &skiparg));
   }
#endif
#ifdef HAVE_SETAFFINITY
   else if (argv[0][2] == 'c') {
    reqval = 1;
```

```
    if (argv[0][3] == 's') {
     cp1 = getoptvalp(argv, 4, reqval,
        &skiparg);
     srvr_affinity = atoi(cp1);
     if (srvr_affinity < 0) {
      fprintf(stderr,
       "invalid srvr_affinity "
       "= %d\n",
       srvr_affinity);
      fflush(stderr);
      exit(1);
     }
    }
    else {
     cp1 = getoptvalp(argv, 3, reqval,
        &skiparg);
     affinity = atoi(cp1);
     if ((affinity < 0) ||
         (affinity >= CPU_SETSIZE)) {
      fprintf(stderr,
       "invalid affinity "
       "= %d\n", affinity);
      fflush(stderr);
      exit(1);
     }
     if ((cp2 = strchr(cp1, '/'))) {
      srvr_affinity = atoi(cp2 + 1);
      if (srvr_affinity < 0) {
       fprintf(stderr,
        "invalid "
        "srvr_affinity "
        "= %d\n",
        srvr_affinity);
       fflush(stderr);
       exit(1);
      }
     }
    }
   }
#endif
   else {
    if (argv[0][2]) {
     fprintf(stderr, "invalid x option \"%s\"\n", &argv[0][2]);
     fflush(stderr);
     exit(1);
    }
    else {
     fprintf(stderr, "invalid null x option\n");
```

```
    fflush(stderr);
    exit(1);
   }
  }
  break;
 case '3':
  thirdparty = 1;
  break;
 case 'm':
  reqval = 0;
  if (argv[0][2] == 'a') {
   ssm = 0;
   cp1 = getoptvalp(argv, 3, reqval, &skiparg);
  }
  else if (argv[0][2] == 's') {
#ifdef MCAST_JOIN_SOURCE_GROUP
   ssm = 1;
   cp1 = getoptvalp(argv, 3, reqval, &skiparg);
#else
   fprintf(stderr,
    "This system does not support SSM\n");
   fflush(stderr);
   exit(1);
#endif
  }
  else {
   cp1 = getoptvalp(argv, 2, reqval, &skiparg);
  }
  if (*cp1)
   mc_param = atoi(cp1);
  else
   mc_param = 1;
  if ((mc_param < 1) || (mc_param > 255)) {
   fprintf(stderr, "invalid multicast ttl = %d\n", mc_param);
   fflush(stderr);
   exit(1);
  }
  multicast = mc_param;
  break;
 case 'g':
  reqval = 1;
  mc_addr = getoptvalp(argv, 2, reqval, &skiparg);
  break;
 case 'M':
  reqval = 1;
  datamss = atoi(getoptvalp(argv, 2, reqval, &skiparg));
  if (datamss < 0) {
   fprintf(stderr, "invalid datamss = %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 {
  fprintf(stderr, "invalid idle-data-timeout parameter = %s\n", argv[1]);
  fflush(stderr);
  exit(1);
 }
}
else {
 sscanf(argv[1], "%lf", &idle_data_min);
 if (idle_data_min <= 0.0) {
  fprintf(stderr, "invalid value for idle-data-timeout = %f\n", idle_data_min);
  fflush(stderr);
  exit(1);
 }
 idle_data_max = idle_data_min;
 default_idle_data = idle_data_min;
```

```
    }
    argv++;
    argc--;
   }
   else if (strcmp(&argv[0][2], "single-threaded") == 0) {
    single_threaded=1;
   }
   else if (strcmp(&argv[0][2], "packet-burst") == 0) {
    maxburst = atoi(argv[1]);
    if (maxburst <= 0) {
     fprintf(stderr,
      "invalid maxburst = %d\n",
      maxburst);
     fflush(stderr);
     exit(1);
    }
    argv++;
    argc--;
   }
#ifdef IPV6_V6ONLY
   else if (strcmp(&argv[0][2], "disable-v4-mapped") == 0) {
    v4mapped=0;
   }
   else if (strcmp(&argv[0][2], "enable-v4-mapped") == 0) {
    v4mapped=1;
   }
#endif
   else {
    goto usage;
   }
   break;
  case 'h':
  default:
   goto usage;
  }
  argv++;
  argc--;
  if (skiparg) {
   argv++;
   argc--;
  }
 }

 if (argc > 2) goto usage;
 if (trans && (argc < 1)) goto usage;
 if (clientserver && (argc != 0)) goto usage;

 if (!clientserver && !trans && (argc < 1)) {
```

```
 fprintf(stderr,
  "nuttcp: Warning: Using obsolete \"classic\" mode:\n");
 fprintf(stderr,
  "                Automatically switching to "
      "oneshot server mode "
      "(\"nuttcp -1\")\n");
 oneshot = 1;
 trans = 0;
 clientserver = 1;
 brief = 0;
 verbose = 1;
}

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

if (multicast) {
 udp = 1;
 if (!buflenopt) buflen = DEFAULT_MC_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);
}
if (strchr(host, '/') && !trans && !reverse) {
 fprintf(stderr, "multiple control/data paths not supported for receive\n");
 fflush(stderr);
 exit(1);
}
if (strchr(host, '/') && trans && reverse) {
 fprintf(stderr, "multiple control/data paths not supported for flipped transmit\n");
 fflush(stderr);
 exit(1);
}
if (host[0] == '/') {
 host++;
 cp1++;
 stream_idx = 1;
}
else if ((cp2 = strchr(host, '/'))) {
 host = cp2 + 1;
}

while (stream_idx <= nstream) {
 bzero(&hints, sizeof(hints));
 res[stream_idx] = NULL;
 if (explicitaf) hints.ai_family = af;
 if (udp)
  hints.ai_socktype = SOCK_DGRAM;
 else
  hints.ai_socktype = SOCK_STREAM;
 if ((cp2 = strchr(cp1, '/'))) {
  if (stream_idx == nstream) {
   fprintf(stderr, "bad hostname or address: too many data paths for nstream=%d: %s\n", nstream, argv[0]);
   fflush(stderr);
   exit(1);
  }
  *cp2 = '\0';
 }
 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);
  }
  af = res[0]->ai_family;
  /* see previous comment about domain */
  domain = af;
  if (cp1)
   *cp1 = '/';
 }
 if (hostaddr) {
  host = argv[0];
  if (implicit_hostaddr)
   *(hostaddr - 2) = '=';
  else
   *(hostaddr - 1) = '=';
 }
}

ipad_stride.ip32 = 0;
if (stride) {
```

```
if (strlen(stride) >= ADDRSTRLEN) {
 fprintf(stderr, "address stride '%s' too long\n", stride);
 fflush(stderr);
 exit(1);
}
if (nstream == 1) {
 fprintf(stderr, "Warning: stride %s not meaningful for a single stream\n", stride);
 fflush(stderr);
}
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 {
  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\n", cp1 + 1);
   fflush(stderr);
   exit(1);
  }
  *cp1 = '\0';
 }
 if (inet_pton(af, host3, &dummy) != 1) {
  bzero(&hints, sizeof(hints));
  hints.ai_family = af;
  if (udp)
   hints.ai_socktype = SOCK_DGRAM;
  else
   hints.ai_socktype = SOCK_STREAM;
  host3res = NULL;
  error_num = getaddrinfo(host3, NULL, &hints, &host3res);
  if (error_num == 0) {
   nameinfo_flags = NI_NUMERICHOST;
   error_num = getnameinfo(host3res->ai_addr,
      host3res->ai_addrlen,
      host3addr, ADDRSTRLEN,
      NULL, 0,
      nameinfo_flags);
  }
  if (host3res) {
   freeaddrinfo(host3res);
   host3res = NULL;
  }
  if (error_num == 0) {
   strncpy(host3buf, host3, HOSTNAMELEN);
   strcat(host3buf, "==");
   strncat(host3buf, host3addr, ADDRSTRLEN);
   if (cp1) {
    strcat(host3buf, "+");
    strncat(host3buf, cp1 + 1, ADDRSTRLEN);
   }
   host3 = host3buf;
  }
 }
 if (cp1)
  *cp1 = '+';
}

if (!port) {
 if (af == AF_INET) {
```

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

 if (!ctlport) {
  if (af == AF_INET) {
   if ((sp = getservbyname( "nuttcp", "tcp" )))
    ctlport = ntohs(sp->s_port);
   else
    ctlport = DEFAULT_CTLPORT;
  }
#ifdef AF_INET6
  else if (af == AF_INET6) {
   if ((sp = getservbyname( "nuttcp6", "tcp" )))
    ctlport = ntohs(sp->s_port);
   else {
    if ((sp = getservbyname( "nuttcp", "tcp" )))
     ctlport = ntohs(sp->s_port);
    else
     ctlport = DEFAULT_CTLPORT;
   }
  }
#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
    inetd = 1;
    oneshot = 1;
    start_idx = 1;
   }
    }
  }
#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 \"-1\" 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: "
      "use 232.x.y.z\n",
     mcgaddr);
    fflush(stderr);
    exit(1);
   }
  }
  else {
   if (((htonl(ipv4_mcaddr.s_addr) & 0xFF000000) !=
        (HI_MC << 24))) {
    fprintf(stderr, "bad ASM multicast "
      "IP address: %s: "
      "use 231.x.y.z\n",
     mcgaddr);
    fflush(stderr);
    exit(1);
   }
  }
 }
#ifdef AF_INET6
 if (mcres->ai_family == AF_INET6) {
  struct sockaddr_in6 *group;

  group = (struct sockaddr_in6 *)mcres->ai_addr;
  if (ssm) {
   if ((bcmp((char *)&(group->sin6_addr),
      (char *)&hi_mc6,
      HI_MC6_LEN - 1) != 0) ||
       (group->sin6_addr.s6_addr[HI_MC6_LEN - 1]
```

```
     < 0x80)) {
    fprintf(stderr,
     "bad SSM multicast IP address: "
     "%s: use ff3e::[8-f]xxx:yyyy\n",
     mcgaddr);
    fflush(stderr);
    exit(1);
   }
  }
  else {
   if ((bcmp((char *)&(group->sin6_addr),
      (char *)&hi_mc6_asm,
      HI_MC6_ASM_LEN) != 0)) {
    fprintf(stderr,
     "bad ASM multicast IP address: "
     "%s: use ff2e::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: ",
    vers_major, vers_minor, vers_delta);
  fprintf(stderr, "Using beta vers: %s interface/output "
    "subject to change\n", BETA_FEATURES);
  fprintf(stderr, "              (to suppress this message "
    "use \"-f-beta\")\n\n");
  fflush(stderr);
 }

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

 for ( stream_idx = 1; stream_idx <= nstream; stream_idx++ ) {
  fd[stream_idx] = -1;
  nretrans[stream_idx] = 0;
  cwnd[stream_idx] = 0;
 }

 for ( stream_idx = start_idx; stream_idx <= nstream; stream_idx++ ) {
  if (clientserver && (stream_idx == 1)) {
   retransinfo = 0;
   cwndinfo = 0;
   if (nstream == 1) {
    send_retrans = 1;
    read_retrans = 1;
    send_cwnd = 1;
    read_cwnd = 1;
```

```
  }
  do_retrans = 0;
  do_cwnd = 0;
  got_0retrans = 0;
  if (client) {
   if (udp && !host3 && !traceroute) {
    ctlconnmss = 0;
    optlen = sizeof(ctlconnmss);
    if (getsockopt(fd[0], IPPROTO_TCP, TCP_MAXSEG,  (void *)&ctlconnmss, &optlen) < 0)
     err("get ctlconn maximum segment size didn't work");
    if (!ctlconnmss) {
     ctlconnmss = NON_JUMBO_ETHER_MSS;
     if (format & DEBUGMTU) {
      fprintf(stderr, "nuttcp%s%s: Warning: Control connection MSS reported as 0, using %d\n", trans?"-t":"-r", ident,
ctlconnmss);
      fflush(stderr);
     }
    }
    else if (format & DEBUGMTU)
     fprintf(stderr, "ctlconnmss = %d\n", ctlconnmss);
    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 (format & DEBUGMTU)
     fprintf(stderr, "buflen = %d\n", buflen);
   }
   if (!(ctlconn = fdopen(fd[0], "w")))
```

```
 err("fdopen: ctlconn for writing");
if (!sinkmode) {
 if (trans)
  savestdin=dup(0);
 else {
  savestdout=dup(1);
  close(1);
  dup(2);
 }
}
close(0);
dup(fd[0]);
if (srvr_helo) {
 fprintf(ctlconn,
  HELO_FMT, vers_major,
  vers_minor, vers_delta);
 fflush(ctlconn);
 if (!fgets(buf, mallocsize, stdin)) {
  if ((errno == ECONNRESET) &&
      (num_connect_tries <
     MAX_CONNECT_TRIES) &&
      retry_server) {
   /* retry control
    * connection to server
    * for certain possibly
    * transient errors */
   fclose(ctlconn);
   goto doit;
  }
  mes("error from server");
  fprintf(stderr, "server aborted connection\n");
  fflush(stderr);
  exit(1);
 }
 if (sscanf(buf, HELO_FMT,
     &rvers_major,
     &rvers_minor,
     &rvers_delta) < 3) {
  rvers_major = 0;
  rvers_minor = 0;
  rvers_delta = 0;
  srvr_helo = 0;
  while (fgets(buf, mallocsize,
        stdin)) {
   if (strncmp(buf, "KO", 2) == 0)
    break;
  }
  fclose(ctlconn);
```

```
 goto doit;
 }
 irvers = rvers_major*10000
   + rvers_minor*100
   + rvers_delta;
 }
 if (host3 && nbuf_bytes && (irvers < 50501))
  nbuf /= buflen;
 if (host3 && (rate != MAXRATE) && rate_pps &&
      (irvers < 50501)) {
  uint64_t llrate = rate;

  llrate *= ((double)buflen * 8 / 1000);
  rate = llrate;
 }
 if (host3 && !buflenopt && (irvers >= 50302))
  buflen = 0;
 fprintf(ctlconn, "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) {
 cp1 = NULL;
 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(stdout, "nuttcp%s%s: 3rd party nuttcp not supported by server version %d.%d.%d, need >= 5.0.1\n",
   trans?"-t":"-r",
   ident, rvers_major,
   rvers_minor,
   rvers_delta);
  fflush(stdout);
  host3 = NULL;
  abortconn = 1;
 }
```

```
}
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%s%s: mss option not supported by server version %d.%d.%d, need >= 5.2.1\n",
   trans?"-t":"-r",
   ident, rvers_major,
   rvers_minor,
   rvers_delta);
  fflush(stdout);
  datamss = 0;
  abortconn = 1;
 }
}
if (irvers >= 50301) {
 fprintf(ctlconn, " , tos = %X", tos);
}
else {
 if (tos && !trans) {
  fprintf(stdout, "nuttcp%s%s: tos option not supported by server version %d.%d.%d, need >= 5.3.1\n",
   trans?"-t":"-r",
   ident, rvers_major,
   rvers_minor,
   rvers_delta);
  fflush(stdout);
  tos = 0;
  abortconn = 1;
 }
}
if (irvers >= 50501) {
 fprintf(ctlconn, " , 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%s%s: Warning: \"-n\" option in bytes for third party not supported\n",
   trans?"-t":"-r", ident);
  fprintf(stdout, "        Warning: by server version %d.%d.%d, need >= 5.5.1\n",
   rvers_major,
   rvers_minor,
   rvers_delta);
  fprintf(stdout, "        Warning: third party request may not transfer\n");
  fprintf(stdout, "        Warning: desired number of bytes in some UDP cases\n");
```

```
 fflush(stdout);
 nbuf_bytes = 0;
 }
 if (host3 && udp && rate_pps) {
 fprintf(stdout, "nuttcp%s%s: Warning: \"-R\" option in pps for third party not supported\n",
  trans?"-t":"-r", ident);
 fprintf(stdout, "        Warning: by server version %d.%d.%d, need >= 5.5.1\n",
  rvers_major,
  rvers_minor,
  rvers_delta);
 fprintf(stdout, "        Warning: third party request may not produce\n");
 fprintf(stdout, "        Warning: desired pps rate in some UDP cases\n");
 fflush(stdout);
 rate_pps = 0;
 }
 if (nodelay && !trans) {
 fprintf(stdout, "nuttcp%s%s: TCP_NODELAY opt not supported by server version %d.%d.%d, need >= 5.5.1\n",
  trans?"-t":"-r",
  ident, rvers_major,
  rvers_minor,
  rvers_delta);
 fflush(stdout);
 nodelay = 0;
 abortconn = 1;
 }
}
if (irvers >= 60206) {
 if (host3) {
  fprintf(ctlconn,
   " , affinity = %d",
   affinity);
  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 (irvers < 30403)
 udplossinfo = 0;
if (irvers >= 50401) {
 two_bod = 1;
 handle_urg = 1;
}
if (udp || (buflen < 32) || (irvers < 60001)) {
 if (trans)
  send_retrans = 0;
 else
  read_retrans = 0;
}
if (udp || (buflen < 32) || (irvers < 80001)) {
 if (trans)
  send_cwnd = 0;
 else
  read_cwnd = 0;
}
if (strncmp(buf, "OK", 2) != 0) {
 mes("error from server");
 fprintf(stderr, "server ");
 while (fgets(buf, mallocsize, stdin)) {
  if (strncmp(buf, "KO", 2) == 0)
   break;
  fputs(buf, stderr);
 }
 fflush(stderr);
 exit(1);
}
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 (!inetd) {
  /* manually started server */
  /* send stdout to client   */
  savestdout=dup(1);
  close(1);
  dup(fd[0]);
  if (!nofork) {
      /* send stderr to client */
      close(2);
      dup(1);
  }
 }
 if (!fgets(buf, mallocsize, ctlconn)) {
  fputs("KO\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\n", stdout);
 mes("error scanning parameters");
 fprintf(stdout, "may be using older client version than server\n");
 fputs(buf, stdout);
 fputs("KO\n", 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;
     }
#ifndef MCAST_JOIN_SOURCE_GROUP
     if (mc_param && (ssm == 1)) {
      fputs("KO\n", stdout);
      fprintf(stdout, "server does not support ssm\n");
      fputs("KO\n", stdout);
      goto cleanup;
     }
#endif
     if (irvers >= 50201) {
      sscanf(strstr(buf, ", datamss =") + 12,
       "%d", &datamss);
     }
     else {
      datamss = 0;
     }
     if (irvers >= 50301) {
      sscanf(strstr(buf, ", tos =") + 8,
       "%X", &tos);
     }
     else {
      tos = 0;
     }
     if (irvers >= 50501) {
      sscanf(strstr(buf, ", nbuf_bytes =")
        + 15,
       "%d", &nbuf_bytes);
      sscanf(strstr(buf, ", rate_pps =") + 13,
       "%d", &rate_pps);
      sscanf(strstr(buf, ", nodelay =") + 12,
       "%d", &nodelay);
     }
     else {
      nbuf_bytes = 0;
      rate_pps = 0;
      nodelay = 0;
     }
     if (irvers >= 60206) {
      if (host3) {
       sscanf(strstr(buf,
           ", affinity =") + 13,
             "%d", &affinity);
       sscanf(strstr(buf,
```

```
      ", srvr_affinity =")
    + 18,
         "%d", &srvr_affinity);
 }
 else {
  sscanf(strstr(buf,
      ", affinity =") + 13,
         "%d", &srvr_affinity);
 }
}
else {
 srvr_affinity = -1;
}
if (irvers >= 60207) {
 sscanf(strstr(buf, ", maxburst =") + 13,
        "%d", &maxburst);
}
else {
 maxburst = 1;
}
if (irvers >= 70001) {
 sscanf(strstr(buf, ", do_jitter =") + 14,
        "%d", &do_jitter);
}
else {
 do_jitter = 0;
}
if (irvers >= 70001) {
 sscanf(strstr(buf, ", do_owd =") + 11,
        "%d", &do_owd);
}
else {
 do_owd = 0;
}
if (irvers >= 70101) {
 sscanf(strstr(buf, ", stride =") + 11,
        "%d", &ipad_stride.ip32);
}
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 != ':')) {
        fputs("KO\n", stdout);
        mes("invalid multicast group");
        fprintf(stdout, "multicast group = '%s'\n", mc_addr);
        fputs("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;
    }
#if !defined(linux)
    iratesss = 0;
#endif
    trans = !trans;
```

```
    if (inetd && !sinkmode) {
     fputs("KO\n", stdout);
     mes("option \"-s\" invalid with inetd server");
     fputs("KO\n", stdout);
     goto cleanup;
    }
    if (!traceroute && !host3 &&
        (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("KO\n", stdout);
 goto cleanup;
}
if (iratesss) {
 if (udp) {
  fputs("KO\n", stdout);
  mes("iratesss not allowed for udp");
  fputs("KO\n", stdout);
  goto cleanup;
 }
 if (maxburst > 1) {
  fputs("KO\n", stdout);
  mes("maxburst > 1 not allowed with iratesss");
  fprintf(stdout, "maxburst = %d\n", maxburst);
  fputs("KO\n", stdout);
  goto cleanup;
 }
 if (nstream > 1) {
  fputs("KO\n", stdout);
  mes("nstream > 1 not allowed with iratesss");
  fprintf(stdout, "nstream = %d\n", nstream);
  fputs("KO\n", stdout);
  goto cleanup;
 }
}
if (host3 && ctlport3 && (ctlport3 < 1024)) {
 fputs("KO\n", stdout);
 mes("invalid ctlport3");
 fprintf(stdout, "ctlport3 = %hu\n",
  ctlport3);
 fputs("KO\n", stdout);
 goto cleanup;
}
if (interval < 0) {
 fputs("KO\n", stdout);
 mes("invalid interval");
 fprintf(stdout, "interval = %f\n", interval);
 fputs("KO\n", stdout);
 goto cleanup;
}
if (mc_param) {
 if ((mc_param < 1) ||
     (mc_param > 255)) {
  fputs("KO\n", stdout);
  mes("invalid multicast ttl");
  fprintf(stdout, "multicast ttl = %d\n", mc_param);
  fputs("KO\n", stdout);
  goto cleanup;
```

```
 }
 udp = 1;
 nstream = 1;
 if (rate == MAXRATE)
  rate = DEFAULT_UDP_RATE;
}
multicast = mc_param;
if ((!host3 && ((ssm < 0) || (ssm > 1))) ||
    (host3 && ((ssm < -1) || (ssm > 1)))) {
 fputs("KO\n", stdout);
 mes("invalid ssm value");
 fprintf(stdout, "ssm = %d\n", ssm);
 fputs("KO\n", stdout);
 goto cleanup;
}
if (datamss < 0) {
 fputs("KO\n", stdout);
 mes("invalid datamss");
 fprintf(stdout, "datamss = %d\n", datamss);
 fputs("KO\n", stdout);
 goto cleanup;
}
if (tos > 255) {
 fputs("KO\n", stdout);
 mes("invalid tos");
 fprintf(stdout, "tos = %d\n", tos);
 fputs("KO\n", stdout);
 goto cleanup;
}
if (nbuf_bytes < 0) {
 fputs("KO\n", stdout);
 mes("invalid nbuf_bytes");
 fprintf(stdout, "nbuf_bytes = %d\n",
  nbuf_bytes);
 fputs("KO\n", stdout);
 goto cleanup;
}
if (rate_pps < 0) {
 fputs("KO\n", stdout);
 mes("invalid rate_pps");
 fprintf(stdout, "rate_pps = %d\n",
  rate_pps);
 fputs("KO\n", stdout);
 goto cleanup;
}
if (nodelay < 0) {
 fputs("KO\n", stdout);
 mes("invalid nodelay");
```

```
      fprintf(stdout, "nodelay = %d\n",
       nodelay);
      fputs("KO\n", stdout);
      goto cleanup;
     }
    if ((srvr_affinity >= 0) && !host3) {
#ifdef HAVE_SETAFFINITY
      CPU_ZERO(&cpu_set);
      CPU_SET(srvr_affinity, &cpu_set);
      if (sched_setaffinity(0,
            sizeof(cpu_set_t),
            &cpu_set) != 0) {
       fputs("KO\n", stdout);
       mes("couldn't change server "
          "CPU affinity");
       fprintf(stdout,
        "srvr_affinity = %d\n",
        srvr_affinity);
       fputs("KO\n", stdout);
       goto cleanup;
      }
#else
      fputs("KO\n", stdout);
      mes("server doesn't support setting "
         "CPU affinity");
      fprintf(stdout,
       "srvr_affinity = %d\n",
       srvr_affinity);
      fputs("KO\n", stdout);
      goto cleanup;
#endif
     }
     if (maxburst < 1) {
      fputs("KO\n", stdout);
      mes("invalid maxburst");
      fprintf(stdout, "maxburst = %d\n",
       maxburst);
      fputs("KO\n", stdout);
      goto cleanup;
     }
     if (do_jitter < 0) {
      fputs("KO\n", stdout);
      mes("invalid do_jitter");
      fprintf(stdout, "do_jitter = %d\n",
       do_jitter);
      fputs("KO\n", stdout);
      goto cleanup;
     }
```

```
    if (do_jitter && !udp) {
     fputs("KO\n", stdout);
     fprintf(stdout,
      "jitter option"
      " not supported for TCP\n");
     fputs("KO\n", stdout);
     goto cleanup;
    }
    if (do_jitter && (!rate || (rate == MAXRATE))) {
     fputs("KO\n", stdout);
     fprintf(stdout,
      "jitter option not supported"
      " for unlimited rate\n");
     fputs("KO\n", stdout);
     goto cleanup;
    }
    if (do_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;
```

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

if (clientserver && client && (stream_idx == 1)) {
 reading_srvr_info = 1;
 pollfds[0].fd = fileno(ctlconn);
 pollfds[0].events = POLLIN | POLLPRI;
 pollfds[0].revents = 0;
 flags = fcntl(0, F_GETFL, 0);
 if (flags < 0)
  err("fcntl 1");
 flags |= O_NONBLOCK;
 if (fcntl(0, F_SETFL, flags) < 0)
  err("fcntl 2");
 itimer.it_value.tv_sec = SRVR_INFO_TIMEOUT;
 itimer.it_value.tv_usec = 0;
 itimer.it_interval.tv_sec = 0;
 itimer.it_interval.tv_usec = 0;
 setitimer(ITIMER_REAL, &itimer, 0);
}
if (clientserver && client && (stream_idx == 1) &&
    ((pollst = poll(pollfds, 1, 0)) > 0) &&
```

```
   (pollfds[0].revents & (POLLIN | POLLPRI)) && !got_done) {
 /* check for server output (mainly for server error) */
 while (fgets(intervalbuf, sizeof(intervalbuf), stdin)) {
  setitimer(ITIMER_REAL, &itimer, 0);
  if (strncmp(intervalbuf, "DONE", 4) == 0) {
   if (format & DEBUGPOLL) {
    fprintf(stdout, "got DONE\n");
    fflush(stdout);
   }
   got_done = 1;
   intr = 1;
   break;
  }
  else if (strncmp(intervalbuf,
     "nuttcp-", 7) == 0) {
   if ((brief <= 0) ||
       strstr(intervalbuf, "Warning") ||
       strstr(intervalbuf, "Error") ||
       strstr(intervalbuf, "Debug")) {
    if (*ident) {
     fputs("nuttcp", stdout);
     fputs(trans ?
      "-r" : "-t",
           stdout);
     fputs(ident, stdout);
     fputs(intervalbuf + 8,
           stdout);
    }
    else
     fputs(intervalbuf,
           stdout);
    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_srvr_info = 0;
 flags = fcntl(0, F_GETFL, 0);
```

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

 if (!client) {
    if (af == AF_INET) {
  inet_ntop(af, &clientaddr.s_addr, hostbuf, sizeof(hostbuf));
    }
#ifdef AF_INET6
    else if (af == AF_INET6) {
  inet_ntop(af, clientaddr6.s6_addr, hostbuf, sizeof(hostbuf));
    }
#endif
    host = hostbuf;
 }

 if (multilink && !client &&
    ((trans && !reverse) || (!trans && reverse)) &&
    !udp && (stream_idx == 1)) {
  nameinfo_flags = NI_NAMEREQD;
  if (getnameinfo((struct sockaddr *)&client_ipaddr,
    sizeof(struct in6_addr),
    clientbuf, NI_MAXHOST,
    NULL, 0,
    nameinfo_flags) == 0) {
   bzero(&hints, sizeof(hints));
   res[0] = NULL;
   res[1] = NULL;
   hints.ai_family = af;
   if (udp)
    hints.ai_socktype = SOCK_DGRAM;
   else
    hints.ai_socktype = SOCK_STREAM;
   if (getaddrinfo(clientbuf, NULL, &hints,
     &res[1]) == 0) {
    for ( i = 2; i <= nstream; i++ ) {
     if (res[i - 1]->ai_next)
      res[i] =
          res[i - 1]->ai_next;
     else
      res[i] = res[1];
    }
```

```
    }
    else {
     if (res[1]) {
      freeaddrinfo(res[1]);
      res[1] = NULL;
     }
     multilink = 0;
    }
   }
   else
    multilink = 0;
  }

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

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

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

  if (((trans && !reverse) && (stream_idx > 0)) ||
      ((!trans && reverse) && (stream_idx > 0)) ||
      (client && (stream_idx == 0))) {
   /* xmitr initiates connections (unless reversed) */
   if (client) {
    if (af == AF_INET) {
       sinhim[stream_idx].sin_family = af;
       if (ipad_stride.ip32 && (stream_idx > 1)) {
     sinhim[stream_idx].sin_addr.s_addr =
       sinhim[stream_idx - 1].sin_addr.s_addr
      + ipad_stride.ip32;
       }
       else {
     bcopy((char *)&(((struct sockaddr_in *)res[stream_idx]->ai_addr)->sin_addr),
          (char *)&sinhim[stream_idx].sin_addr.s_addr,
          sizeof(sinhim[stream_idx].sin_addr.s_addr));
       }
```

```
    }
#ifdef AF_INET6
    else if (af == AF_INET6) {
        sinhim6[stream_idx].sin6_family = af;
        bcopy((char *)&(((struct sockaddr_in6 *)res[stream_idx]->ai_addr)->sin6_addr),
       (char *)&sinhim6[stream_idx].sin6_addr.s6_addr,
       sizeof(sinhim6[stream_idx].sin6_addr.s6_addr));
        sinhim6[stream_idx].sin6_scope_id = ((struct sockaddr_in6 *)res[stream_idx]->ai_addr)->sin6_scope_id;
    }
#endif
    else {
     err("unsupported AF");
    }
   }
   else {
    sinhim[stream_idx].sin_family = af;
    if (ipad_stride.ip32 && (stream_idx > 1)) {
     sinhim[stream_idx].sin_addr.s_addr =
       sinhim[stream_idx - 1].sin_addr.s_addr
      + ipad_stride.ip32;
    }
    else {
     if (multilink && (stream_idx > 0))
      sinhim[stream_idx].sin_addr =
       ((struct sockaddr_in *)res[stream_idx]->ai_addr)->sin_addr;
     else
      sinhim[stream_idx].sin_addr =
       clientaddr;
    }
#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 =
      clientaddr6;
    sinhim6[stream_idx].sin6_scope_id = clientscope6;
#endif
   }
   if (stream_idx == 0) {
    sinhim[stream_idx].sin_port = htons(ctlport);
    sinme[stream_idx].sin_port = htons(srcctlport); /* default is free choice */
#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\n", stdout);
    mes("Error: socket() on data stream failed");
    fputs("Error: ", stdout);
    fputs(strerror(save_errno), stdout);
    fputs("\n", stdout);
    fputs("KO\n", 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\n", stdout);
   mes("Error: setsockopt()"
       " to so_reuseaddr failed");
   fputs("Error: ", stdout);
   fputs(strerror(save_errno), stdout);
   fputs("\n", stdout);
   fputs("KO\n", 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\n", stdout);
    mes("Error: setsockopt()"
        " to ipv6_only failed");
    fputs("Error: ", stdout);
    fputs(strerror(save_errno), stdout);
    fputs("\n", stdout);
    fputs("KO\n", 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\n", stdout);
   mes("Error: bind() on data stream failed");
   fputs("Error: ", stdout);
   fputs(strerror(save_errno), stdout);
   fputs("\n", stdout);
   if (((!trans && !reverse)
    || (trans && reverse)) &&
       (errno == EADDRINUSE) &&
       (port == IPERF_PORT))
    fputs("Info: Possible collision"
```

```
          " with iperf server\n", stdout);
    fputs("KO\n", stdout);
    goto cleanup;
   }
   if (clientserver && client && (stream_idx == 1) &&
      ((!trans && !reverse) || (trans && reverse)) &&
      (errno == EADDRINUSE) && (port == IPERF_PORT)) {
    errmes("bind");
    fputs("Info: Possible collision"
         " with iperf server\n", stderr);
    fflush(stderr);
    exit(1);
   }
   err("bind");
     }
  }
#ifdef AF_INET6
  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("\n", stdout);
    fputs("KO\n", stdout);
    goto cleanup;
   }
   err("bind");
     }
  }
#endif
  else {
     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("\n", stdout);
   fputs("KO\n", stdout);
   goto cleanup;
     }
     err("unsupported AF");
   }

   if (clientserver && !client && (stream_idx == 1)) {
```

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

 if (clientserver && (stream_idx == 1)) {
  if (!udp && trans) {
   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);
   }
  }
#endif
#ifdef HAVE_SETAFFINITY
  if ((affinity >= 0) && (brief <= 0) && !host3) {
   int cpu_affinity;

   errno = 0;
   sched_getaffinity(0, sizeof(cpu_set_t),
    &cpu_set);
```

```
    if (errno)
     mes("couldn't get affinity");
    else {
     for ( cpu_affinity = 0;
           cpu_affinity < ncores;
           cpu_affinity++ ) {
      if (CPU_ISSET(cpu_affinity,
            &cpu_set))
       break;
     }
     if (format & PARSE)
      fprintf(stdout,
       "nuttcp%s%s: "
       "cpu_affinity=%d\n",
       trans ? "-t" : "-r",
       ident, cpu_affinity);
     else
      fprintf(stdout,
       "nuttcp%s%s: "
       "affinity = CPU %d\n",
       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, "\n");
    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 (iratesss)
 fprintf(stdout, " smoothed_slow_start=on");
    if (maxburst > 1)
 fprintf(stdout, " packet_burst=%d",
  maxburst);
    if (udp) {
 unsigned long long ppsrate =
     ((uint64_t)rate * 1000)/8/buflen;

 fprintf(stdout, " pps_rate=%llu",
     ppsrate);
    }
}
if (tos)
    fprintf(stdout, " tos=0x%X", tos);
if ((rate != MAXRATE) || tos)
    fprintf(stdout, "\n");
   }
   else if (brief <= 0) {
fprintf(stdout, "nuttcp-t%s: buflen=%d, ",
 ident, buflen);
if (nbuf != INT_MAX)
    fprintf(stdout, "nbuf=%llu, ", nbuf);
fprintf(stdout, "nstream=%d, port=%d",
    nstream, port);
if (srcport)
    fprintf(stdout, ", srcport=%d", srcport);
fprintf(stdout, " %s -> %s",
    udp?"udp":"tcp",
    host);
if (multicast)
    fprintf(stdout, " ttl=%d", multicast);
fprintf(stdout, "\n");
if (timeout)
    fprintf(stdout, "nuttcp-t%s: time limit = %.2f second%s\n",
 ident, timeout,
 (timeout == 1.0)?"":"s");
if ((rate != MAXRATE) || tos)
    fprintf(stdout, "nuttcp-t%s:", ident);
if (rate != MAXRATE) {
    fprintf(stdout, " rate limit = %.3f Mbps (%s)",
 (double)rate/1000,
 irate ? "instantaneous" : "aggregate");
    if (iratesss)
 fprintf(stdout, " with smoothed slow start");
```

```
    if (maxburst > 1)
 fprintf(stdout, ", packet burst = %d",
  maxburst);
    if (udp) {
 unsigned long long ppsrate =
     ((uint64_t)rate * 1000)/8/buflen;

 fprintf(stdout, ", %llu pps", ppsrate);
    }
    if (tos)
 fprintf(stdout, ",");
 }
 if (tos)
    fprintf(stdout, " tos = 0x%X", tos);
 if ((rate != MAXRATE) || tos)
    fprintf(stdout, "\n");
   }
}
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\n",
```

```
   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 (braindead && (setsockopt(fd[stream_idx], SOL_SOCKET, SO_RCVBUF,
   (void *)&rcvwin, sizeof(rcvwin)) < 0))
   errmes("unable to setsockopt SO_RCVBUF");
  }
  if (tos) {
   if (af == AF_INET) {
    if (setsockopt(fd[stream_idx], IPPROTO_IP, IP_TOS,
     (void *)&tos, sizeof(tos)) < 0)
     err("setsockopt");
   }
#ifdef AF_INET6
   else if (af == AF_INET6) {
    if (setsockopt(fd[stream_idx], IPPROTO_IPV6, IPV6_TCLASS,
     (void *)&tos, sizeof(tos)) < 0)
     err("setsockopt");
   }
#endif
   else {
      err("unsupported AF");
   }
  }
  if (nodelay && !udp) {
   struct protoent *p;
   p = getprotobyname("tcp");
   if (p && setsockopt(fd[stream_idx], p->p_proto, TCP_NODELAY,
      (void *)&one, sizeof(one)) < 0)
    err("setsockopt: nodelay");
   if ((stream_idx == nstream) && (brief <= 0))
    mes("nodelay");
  }
     }
     else {
```

```
  /* Set the receiver options */
  if (rcvwin) {
   if (setsockopt(fd[stream_idx], SOL_SOCKET, SO_RCVBUF,
    (void *)&rcvwin, sizeof(rcvwin)) < 0)
    errmes("unable to setsockopt SO_RCVBUF");
   if (braindead && (setsockopt(fd[stream_idx], SOL_SOCKET, SO_SNDBUF,
    (void *)&sendwin, sizeof(sendwin)) < 0))
    errmes("unable to setsockopt SO_SNDBUF");
  }
  if (tos) {
   if (af == AF_INET) {
    if (setsockopt(fd[stream_idx], IPPROTO_IP, IP_TOS,
     (void *)&tos, sizeof(tos)) < 0)
     err("setsockopt");
   }
#ifdef AF_INET6
   else if (af == AF_INET6) {
    if (setsockopt(fd[stream_idx], IPPROTO_IPV6, IPV6_TCLASS,
     (void *)&tos, sizeof(tos)) < 0)
     err("setsockopt");
   }
#endif
   else {
      err("unsupported AF");
   }
  }
    }
 }
 if (!udp || (stream_idx == 0)) {
    if (((trans && !reverse) && (stream_idx > 0)) ||
  ((!trans && reverse) && (stream_idx > 0)) ||
  (client && (stream_idx == 0))) {
  /* The transmitter initiates the connection
   * (unless reversed by the flip option)
   */
  if (options && (stream_idx > 0)) {
   if (setsockopt(fd[stream_idx], SOL_SOCKET, options, (void *)&one, sizeof(one)) < 0)
    errmes("unable to setsockopt options");
  }
  usleep(20000);
  if (trans && (stream_idx > 0) && datamss) {
#if defined(__CYGWIN__) || defined(_WIN32)
   if (format & PARSE)
    fprintf(stderr, "nuttcp%s%s: Warning=\"setting_maximum_segment_size_not_supported_on_windows\"\n",
     trans?"-t":"-r", ident);
   else
    fprintf(stderr, "nuttcp%s%s: Warning: setting maximum segment size not supported on windows\n",
     trans?"-t":"-r", ident);
```

```
    fflush(stderr);
#endif
    optlen = sizeof(datamss);
    if ((sockopterr = setsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG,  (void *)&datamss, optlen)) < 0)
     if (errno != EINVAL)
      err("unable to set maximum segment size");
    }
    if (clientserver && !client && (stream_idx == 1)) {
     /* check if client went away */
     pollfds[0].fd = fileno(ctlconn);
     save_events = pollfds[0].events;
     pollfds[0].events = POLLIN | POLLPRI;
     pollfds[0].revents = 0;
     if ((poll(pollfds, 1, 0) > 0) &&
         (pollfds[0].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]));
    }
#ifdef AF_INET6
    else if (af == AF_INET6) {
     error_num = connect(fd[stream_idx], (struct sockaddr *)&sinhim6[stream_idx], sizeof(sinhim6[stream_idx]));
    }
#endif
    else {
        err("unsupported AF");
    }
    if (error_num < 0) {
     if (clientserver && client && (stream_idx == 0)
        && ((errno == ECONNREFUSED) ||
            (errno == ECONNRESET))
        && (num_connect_tries <
        MAX_CONNECT_TRIES)
        && retry_server) {
      /* retry control connection to
       * server for certain possibly
       * transient errors */
      usleep(SERVER_RETRY_USEC);
      goto doit;
     }
     if (!trans && (stream_idx == 0))
      err("connect");
     if (stream_idx > 0) {
```

```
 if (clientserver && !client) {
  for ( i = 1; i <= stream_idx;
        i++ )
   close(fd[i]);
  goto cleanup;
 }
 err("connect");
}
if (stream_idx == 0) {
 clientserver = 0;
 if (thirdparty) {
  perror("3rd party connect failed");
  fprintf(stderr, "3rd party nuttcp only supported for client/server mode\n");
  fflush(stderr);
  exit(1);
 }
 if (interval) {
  perror("connect failed");
  fprintf(stderr, "interval option only supported for client/server mode\n");
  fflush(stderr);
  exit(1);
 }
 if (reverse) {
  perror("connect failed");
  fprintf(stderr, "flip option only supported for client/server mode\n");
  fflush(stderr);
  exit(1);
 }
 if (traceroute) {
  perror("connect failed");
  fprintf(stderr, "traceroute option only supported for client/server mode\n");
  fflush(stderr);
  exit(1);
 }
 if (host3) {
  perror("connect failed");
  fprintf(stderr, "3rd party nuttcp only supported for client/server mode\n");
  fflush(stderr);
  exit(1);
 }
 if (multicast) {
  perror("connect failed");
  fprintf(stderr, "multicast only supported for client/server mode\n");
  fflush(stderr);
  exit(1);
 }
 if (udp) {
  perror("connect failed");
```

```
    fprintf(stderr, "UDP transfers only supported for client/server mode\n");
    fflush(stderr);
    exit(1);
   }
   if (format & PARSE) {
    fprintf(stderr, "nuttcp%s%s: Info=\"attempting_to_switch_to_deprecated_classic_mode\"\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);
   }
   fflush(stderr);
  }
 }
 if (stream_idx == 1) {
  get_timeofday(&timeconn2, (struct timezone *)0);
  tvsub( &timeconn, &timeconn2, &timeconn1 );
  rtt = timeconn.tv_sec*1000 +
    ((double)timeconn.tv_usec)/1000;
 }
 if (sockopterr && trans &&
     (stream_idx > 0) && datamss) {
  optlen = sizeof(datamss);
  if ((sockopterr = setsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG,  (void *)&datamss, optlen)) < 0) {
   if (errno != EINVAL)
    err("unable to set maximum segment size");
   else
    err("setting maximum segment size not supported on this OS");
  }
 }
 if (stream_idx == nstream) {
  optlen = sizeof(datamss);
  if (getsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG,  (void *)&datamss, &optlen) < 0)
   err("get dataconn maximum segment size didn't work");
  if (format & DEBUGMTU)
   fprintf(stderr, "datamss = %d\n", datamss);
 }
 if ((stream_idx == nstream) && (brief <= 0)) {
  char tmphost[ADDRSTRLEN] = "\0";
  if (af == AF_INET) {
     inet_ntop(af, &sinhim[stream_idx].sin_addr.s_addr, tmphost, sizeof(tmphost));
  }
#ifdef AF_INET6
```

```
    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, ",");
     }
     if (rtt)
      fprintf(stdout, RTT_FMT, rtt);
    }
    if (af == AF_INET) {
     fprintf(stdout, " af=inet");
    }
```

```
#ifdef AF_INET6
    else if (af == AF_INET6) {
     fprintf(stdout, " af=inet6");
    }
#endif
    else {
     fprintf(stdout, " af=%d", af);
    }
    fprintf(stdout, "\n");
   }
     }
     else {
   /* The receiver listens for the connection
    * (unless reversed by the flip option)
    */
   if (trans && (stream_idx > 0) && datamss) {
#if defined(__CYGWIN__) || defined(_WIN32)
    if (format & PARSE)
     fprintf(stderr, "nuttcp%s%s: Warning=\"setting_maximum_segment_size_not_supported_on_windows\"\n",
      trans?"-t":"-r", ident);
    else
     fprintf(stderr, "nuttcp%s%s: Warning: setting maximum segment size not supported on windows\n",
      trans?"-t":"-r", ident);
    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");
   }
   listen(fd[stream_idx], LISTEN_BACKLOG);
   if (clientserver && !client && (stream_idx == 0)
      && !inetd && !nofork && !forked) {
    if ((pid = fork()) == (pid_t)-1)
     err("can't fork");
    if (pid != 0)
     exit(0);
    forked = 1;
    if (sinkmode) {
     close(0);
     close(1);
     close(2);
     open("/dev/null", O_RDWR);
     dup(0);
     dup(0);
    }
    setsid();
   }
```

```
  if (options && (stream_idx > 0)) {
   if (setsockopt(fd[stream_idx], SOL_SOCKET, options, (void *)&one, sizeof(one)) < 0)
    errmes("unable to setsockopt options");
  }
  if (sockopterr && trans &&
      (stream_idx > 0) && datamss) {
   optlen = sizeof(datamss);
   if ((sockopterr = setsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG,  (void *)&datamss, optlen)) < 0)
    if (errno != EINVAL)
     err("unable to set maximum segment size");
  }
  if (clientserver && (stream_idx > 0)) {
   sigact.sa_handler = ignore_alarm;
   sigemptyset(&sigact.sa_mask);
   sigact.sa_flags = 0;
   sigaction(SIGALRM, &sigact, &savesigact);
   alarm(ACCEPT_TIMEOUT);
  }
acceptnewconn:
  fromlen = sizeof(frominet);
  nfd=accept(fd[stream_idx], (struct sockaddr *)&frominet, &fromlen);
  save_errno = errno;
  if (clientserver && (stream_idx > 0)) {
   alarm(0);
   sigact.sa_handler = savesigact.sa_handler;
   sigact.sa_mask = savesigact.sa_mask;
   sigact.sa_flags = savesigact.sa_flags;
   sigaction(SIGALRM, &sigact, 0);
  }
  if (nfd < 0) {
   /* check for interrupted system call - on
    * server, close data streams, cleanup and
    * try again - all other errors just die
    */
   if ((save_errno == EINTR) && clientserver
       && (stream_idx > 0)) {
    if (client) {
     /* if client, just give nice
      * error message and exit
      */
     mes("Error: accept() timeout");
     exit(1);
    }
    for ( i = 1; i <= stream_idx; i++ )
     close(fd[i]);
    goto cleanup;
   }
   err("accept");
```

```
}
if (clientserver && !client && (stream_idx == 0)
   && !inetd && !nofork
   && !single_threaded) {
 /* multi-threaded manually started server */
 if ((pid = fork()) == (pid_t)-1)
  err("can't fork");
 if (pid != 0) {
  /* parent just waits for quick
   * child exit */
  while ((wait_pid = wait(&pidstat))
       != pid) {
   if (wait_pid == (pid_t)-1) {
    if (errno == ECHILD)
     break;
    err("wait failed");
   }
  }
  /* and then accept()s another client
   * connection */
  close(nfd);
  stream_idx = 0;
  if (oneshot)
   exit(0);
  goto acceptnewconn;
 }
 /* child just makes a grandchild and then
  * immediately exits (avoid zombie processes) */
 if ((pid = fork()) == (pid_t)-1)
  err("can't fork");
 if (pid != 0)
  exit(0);
 /* grandkid does all the work */
 oneshot = 1;
}
af = frominet.ss_family;
close(fd[stream_idx]);
fd[stream_idx]=nfd;
if (sockopterr && trans &&
    (stream_idx > 0) && datamss) {
 optlen = sizeof(datamss);
 if ((sockopterr = setsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG,  (void *)&datamss, optlen)) < 0) {
  if (errno != EINVAL)
   err("unable to set maximum segment size");
  else
   err("setting maximum segment size not supported on this OS");
 }
}
```

```
  if (stream_idx == nstream) {
   optlen = sizeof(datamss);
   if (getsockopt(fd[stream_idx], IPPROTO_TCP, TCP_MAXSEG,  (void *)&datamss, &optlen) < 0)
    err("get dataconn maximum segment size didn't work");
   if (format & DEBUGMTU)
    fprintf(stderr, "datamss = %d\n", datamss);
  }
  if (af == AF_INET) {
     struct sockaddr_in peer;
     socklen_t peerlen = sizeof(peer);
     if (getpeername(fd[stream_idx],
       (struct sockaddr *)&peer,
       &peerlen) < 0) {
   err("getpeername");
     }
     if ((stream_idx == nstream) && (brief <= 0)) {
   char tmphost[ADDRSTRLEN] = "\0";
   inet_ntop(af, &peer.sin_addr.s_addr, tmphost, sizeof(tmphost));

   if (format & PARSE) {
    fprintf(stdout,
     "nuttcp%s%s: accept=%s",
     trans?"-t":"-r", ident,
     tmphost);
    if (trans && datamss) {
     fprintf(stdout, " mss=%d",
      datamss);
    }
   }
   else {
    fprintf(stdout,
     "nuttcp%s%s: accept from %s with",
     trans?"-t":"-r", ident,
     tmphost);
    if (trans && datamss) {
     fprintf(stdout, " mss=%d,",
      datamss);
    }
   }
   if (af == AF_INET) {
    fprintf(stdout, " af=inet");
   }
#ifdef AF_INET6
   else if (af == AF_INET6) {
    fprintf(stdout, " af=inet6");
   }
#endif
   else {
```

```
     fprintf(stdout, " af=%d", af);
    }
    fprintf(stdout, "\n");
      }
      if (stream_idx == 0) {
    clientaddr = peer.sin_addr;
    client_ipaddr.ss.ss_family = AF_INET;
    client_ipaddr.sin.sin_addr = clientaddr;
      }
    }
#ifdef AF_INET6
   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)) {
    char tmphost[ADDRSTRLEN] = "\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");
     }
#ifdef AF_INET6
     else if (af == AF_INET6) {
      fprintf(stdout, " af=inet6");
     }
#endif
     else {
      fprintf(stdout, " af=%d", af);
     }
     fprintf(stdout, "\n");
        }
        if (stream_idx == 0) {
     if (af == AF_INET6) { // we didnt fix a mapped v4 ip
      clientaddr6 = peer6.sin6_addr;
      clientscope6 = peer6.sin6_scope_id;
      client_ipaddr.ss.ss_family = AF_INET6;
      client_ipaddr.sin6.sin6_addr = clientaddr6;
     }
     else { // mapped so af is AF_INET
      clientaddr = peer4.sin_addr;
      client_ipaddr.ss.ss_family = AF_INET;
      client_ipaddr.sin.sin_addr = clientaddr;
     }
        }
    }
#endif
    else {
        err("unsupported AF");
    }
      }
   }
   if (!udp && trans && (stream_idx >= 1) && (retransinfo > 0)) {
    if ((stream_idx == 1) || (retransinfo == 1)) {
     nretrans[stream_idx] =
      get_retrans(fd[stream_idx], &tcpinf);
     iretrans[stream_idx] = nretrans[stream_idx];
#if defined(linux)
     if (retransinfo == 1) {
      cwnd[stream_idx] =
       tcpinf.tcpinfo_snd_cwnd
        *datamss/1024;
```

```
    if (stream_idx == 1) {
     init_pkt_cwnd =
      tcpinf.tcpinfo_snd_cwnd;
     sss_pkt_cwnd = init_pkt_cwnd;
    }
   }
#endif
  }
 }
 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\"\n",
    trans?"-t":"-r", ident,
    sendwinval, sendwin);
  else
   fprintf(stderr, "nuttcp%s%s: Warning: send window size %d < requested window size %d\n",
    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\"\n",
    trans?"-t":"-r", ident,
    rcvwinval, rcvwin);
  else
   fprintf(stderr, "nuttcp%s%s: Warning: receive window size %d < requested window size %d\n",
    trans?"-t":"-r", ident,
    rcvwinval, rcvwin);
  fflush(stderr);
 }

 if (firsttime) {
  firsttime = 0;
```

```
  origsendwin = sendwinval;
  origrcvwin = rcvwinval;
 }

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

  sendwinval *= 2;
  rcvwinval  *= 2;
  if ((adv_ws = fopen(TCP_ADV_WIN_SCALE, "r"))) {
   if (fscanf(adv_ws, "%d", &winadjust) <= 0)
    winadjust = 2;
   fclose(adv_ws);
  }
  else {
   winadjust = 2;
  }
  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_sec +=
     idle_data_max < SRVR_INFO_TIMEOUT ?
         SRVR_INFO_TIMEOUT : idle_data_max;
    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(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)
      && (pollfds[0].revents &
```

```
     (POLLIN | POLLPRI))) {
    kill(pid,
        SIGINT);
    sleep(1);
    kill(pid,
        SIGINT);
    continue;
   }
   sigact.sa_handler =
    &sigalarm;
   sigemptyset(&sigact.sa_mask);
   sigact.sa_flags = 0;
   sigaction(SIGALRM,
      &sigact, 0);
   alarm(10);
   continue;
  }
  err("wait failed");
 }
}
fprintf(stdout, "DONE\n");
fflush(stdout);
goto cleanup;
}
close(2);
dup(1);
i = 0;
j = 0;
cmdargs[i++] = cmd;
cmdargs[i++] = "-3";
if (ctlport3) {
 sprintf(tmpargs[j], "-P%hu", ctlport3);
 cmdargs[i++] = tmpargs[j++];
}
else {
 if (pass_ctlport) {
  sprintf(tmpargs[j], "-P%hu", ctlport);
  cmdargs[i++] = tmpargs[j++];
 }
}
if (affinity >= 0) {
 sprintf(tmpargs[j], "-xc%d", affinity);
 cmdargs[i++] = tmpargs[j++];
}
if (srvr_affinity >= 0) {
 sprintf(tmpargs[j], "-xcs%d", srvr_affinity);
 cmdargs[i++] = tmpargs[j++];
}
```

```
if (irvers < 50302) {
 if ((udp && !multicast
   && (buflen != DEFAULTUDPBUFLEN)) ||
     (udp && multicast
   && (buflen != DEFAULT_MC_UDPBUFLEN)) ||
     (!udp && (buflen != 65536))) {
  sprintf(tmpargs[j], "-l%d", buflen);
  cmdargs[i++] = tmpargs[j++];
 }
}
else if (buflen) {
 sprintf(tmpargs[j], "-l%d", buflen);
 cmdargs[i++] = tmpargs[j++];
}
if (nbuf != INT_MAX) {
 if (nbuf_bytes)
  sprintf(tmpargs[j], "-n%llub", nbuf);
 else
  sprintf(tmpargs[j], "-n%llu", nbuf);
 cmdargs[i++] = tmpargs[j++];
}
if (brief3 != 1) {
 sprintf(tmpargs[j], "-b%d", brief3);
 cmdargs[i++] = tmpargs[j++];
}
if (sendwin) {
 sprintf(tmpargs[j], "-w%d", sendwin/1024);
 cmdargs[i++] = tmpargs[j++];
}
if (nstream != 1) {
 sprintf(tmpargs[j], "-N%d%s", nstream,
  multilink ? "m" : "");
 cmdargs[i++] = tmpargs[j++];
}
if (rate != MAXRATE) {
 if (maxburst > 1) {
  if (rate_pps)
   sprintf(tmpargs[j],
    "-R%s%lup/%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%lup",
    irate ? "i" : "",
    iratesss ? "s" : "",
    rate);
  else
   sprintf(tmpargs[j],
    "-R%s%s%lu",
    irate ? "i" : "",
    iratesss ? "s" : "",
    rate);
 }
 cmdargs[i++] = tmpargs[j++];
}
else {
 if (udp && !multicast)
  cmdargs[i++] = "-R0";
}
if (srcport) {
 sprintf(tmpargs[j], "-p%hu:%hu", srcport, port);
 cmdargs[i++] = tmpargs[j++];
}
else if (port != DEFAULT_PORT) {
 sprintf(tmpargs[j], "-p%hu", port);
 cmdargs[i++] = tmpargs[j++];
}
if (trans)
 cmdargs[i++] = "-r";
if (braindead)
 cmdargs[i++] = "-wb";
if (timeout && (timeout != DEFAULT_TIMEOUT)) {
 sprintf(tmpargs[j], "-T%f", timeout);
 cmdargs[i++] = tmpargs[j++];
}
if (udp) {
 if (multicast) {
  if (ssm == 1)
   sprintf(tmpargs[j], "-ms%d",
    multicast);
  else if (ssm == 0)
   sprintf(tmpargs[j], "-ma%d",
    multicast);
  else
   sprintf(tmpargs[j], "-m%d",
    multicast);
  cmdargs[i++] = tmpargs[j++];
  if (mc_addr) {
```

```
   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) {
```

```
  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) && !intr) {
```

```
  if (strncmp(linebuf, "DONE", 4)
    == 0)
   exit(0);
  fputs(linebuf, stdout);
  fflush(stdout);
 }
 exit(0);
}
signal(SIGINT, SIG_IGN);
while ((wait_pid = wait(&pidstat)) != pid) {
 if (wait_pid == (pid_t)-1) {
  if (errno == ECHILD)
   break;
  err("wait failed");
 }
}
exit(0);
}
else {
 if (!inetd) {
  if ((pid = fork()) == (pid_t)-1)
   err("can't fork");
  if (pid != 0) {
   while ((wait_pid = wait(&pidstat))
     != pid) {
    if (wait_pid == (pid_t)-1) {
     if (errno == ECHILD)
      break;
     err("wait failed");
    }
   }
   fprintf(stdout, "DONE\n");
   fflush(stdout);
   goto cleanup;
  }
 }
 close(2);
 dup(1);
 i = 0;
 cmdargs[i++] = cmd;
 cmdargs[i++] = host;
 cmdargs[i] = NULL;
 execvp(cmd, cmdargs);
 if (errno == ENOENT) {
  strcpy(path, "/usr/local/sbin/");
  strcat(path, cmd);
  execv(path, cmdargs);
 }
```

```
  if (errno == ENOENT) {
   strcpy(path, "/usr/local/bin/");
   strcat(path, cmd);
   execv(path, cmdargs);
  }
  if (errno == ENOENT) {
   strcpy(path, "/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);
  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;
```

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

  if (mc_af == AF_INET) {
   if (getpeername(fd[0], (struct sockaddr *)&peer,
     &peerlen) < 0) {
    err("getpeername");
   }
   if (getsockname(fd[0], (struct sockaddr *)&me,
     &melen) < 0) {
    err("getsockname");
   }
  }
#ifdef AF_INET6
  else if (mc_af == AF_INET6) {
```

```
  if (getpeername(fd[0], (struct sockaddr *)&peer6,
    &peer6len) < 0) {
   err("getpeername");
  }
  if (getsockname(fd[0], (struct sockaddr *)&me6,
    &me6len) < 0) {
   err("getsockname");
  }
 }
#endif /* AF_INET6 */
 else {
  err("unsupported AF");
 }

 if (!trans) {
    if ((mc_af == AF_INET) && !ssm) { /* IPv4 ASM */
  /* The multicast receiver must join the mc group */
  if (mc_addr) {
   struct sockaddr_in *user_group;

   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);
    }
   }
     }
#ifdef 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);
   }
```

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

   if (format & PARSE) {
    fprintf(stdout,
     "nuttcp%s%s: multicast_source=%s multicast_group=%s ssm=0\n",
     trans?"-t":"-r", ident,
     multsrc, multaddr);
   }
   else {
    fprintf(stdout,
     "nuttcp%s%s: receive from multicast source %s\n",
     trans?"-t":"-r", ident,
     multsrc);
    fprintf(stdout,
     "nuttcp%s%s: using asm on multicast group %s\n",
     trans?"-t":"-r", ident,
     multaddr);
   }
  }
    }
#endif /* AF_INET6 */
#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);
   }
  }
     }
#ifdef AF_INET6
     else if ((mc_af == AF_INET6) && ssm) { /* IPv6 SSM */
  /* multicast receiver joins the mc source group */
  struct sockaddr_in6 *group;
```

```
struct sockaddr_in6 *source;

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

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

     user_group =
      (struct sockaddr_in6 *)mcres->ai_addr;
     bcopy((char *)&(user_group->sin6_addr),
           (char *)&sinhim6[1].sin6_addr,
           sizeof(struct in6_addr));
    }
    else if (client) {
     bcopy((char *)&me6.sin6_addr,
           (char *)&sinhim6[1].sin6_addr,
           sizeof(struct in6_addr));
```

```
  }
  else {
   bcopy((char *)&peer6.sin6_addr,
         (char *)&sinhim6[1].sin6_addr,
         sizeof(struct in6_addr));
  }
  if (!mc_addr) {
   bcopy((char *)&hi_mc6_asm,
         (char *)&sinhim6[1].sin6_addr,
         HI_MC6_ASM_LEN);
  }
  if (setsockopt(fd[1], IPPROTO_IPV6, IPV6_MULTICAST_HOPS,
          (void *)&multicast,
          sizeof(multicast)) < 0)
   err("setsockopt: IPV6_MULTICAST_HOPS");
  if (brief <= 0) {
   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 *)&sinhim[1].sin_addr.s_addr,
        sizeof(struct in_addr));
    }
    else if (client) {
     bcopy((char *)&me.sin_addr.s_addr,
        (char *)&sinhim[1].sin_addr.s_addr,
        sizeof(struct in_addr));
    }
    else {
     bcopy((char *)&peer.sin_addr.s_addr,
        (char *)&sinhim[1].sin_addr.s_addr,
        sizeof(struct in_addr));
    }
    if (!mc_addr) {
     sinhim[1].sin_addr.s_addr &= htonl(0xFFFFFF);
     sinhim[1].sin_addr.s_addr |=
      htonl(HI_MC_SSM << 24);
    }
    if (setsockopt(fd[1], IPPROTO_IP, IP_MULTICAST_TTL,
          (void *)&multicast,
          sizeof(multicast)) < 0)
     err("setsockopt: IP_MULTICAST_TTL");
    if (brief <= 0) {
     inet_ntop(mc_af, &me.sin_addr.s_addr,
       multsrc, sizeof(multsrc));
     inet_ntop(mc_af, &sinhim[1].sin_addr.s_addr,
       multaddr, sizeof(multaddr));
     if (format & PARSE) {
      fprintf(stdout,
       "nuttcp%s%s: multicast_source=%s multicast_group=%s ssm=1\n",
       trans?"-t":"-r", ident,
       multsrc, multaddr);
     }
     else {
      fprintf(stdout,
       "nuttcp%s%s: sending from multicast source %s\n",
       trans?"-t":"-r", ident,
       multsrc);
      fprintf(stdout,
       "nuttcp%s%s: using ssm on multicast group %s\n",
       trans?"-t":"-r", ident,
       multaddr);
     }
    }
      }
#ifdef 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);
```

```
    }
   }
     }
#endif /* 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;
}
#ifdef DEBUG
 if (irate && (format & DEBUGIRATE)) {
  debugout = fopen(DEBUGOUTPUT, "a+");
  if (debugout)
   fprintf(debugout, "BEGIN nuttcp debug output\n");
 }
#endif
 prep_timer();
 errno = 0;
 stream_idx = 0;
 ocorrection = 0;
 correction = 0.0;
```

```
if (do_poll) {
 long flags;

 pollfds[0].fd = fileno(ctlconn);
 pollfds[0].events = POLLIN | POLLPRI;
 pollfds[0].revents = 0;
 for ( i = 1; i <= nstream; i++ ) {
  pollfds[i].fd = fd[i];
  pollfds[i].events = POLLOUT;
  pollfds[i].revents = 0;
 }
 flags = fcntl(0, F_GETFL, 0);
 if (flags < 0)
  err("fcntl 1");
 flags |= O_NONBLOCK;
 if (fcntl(0, F_SETFL, flags) < 0)
  err("fcntl 2");
}
if (sinkmode) {
 register int cnt = 0;
 if (trans) {
  if (udp) {
   strcpy(buf, "BOD0");
   if (multicast) {
       bcopy((char *)&sinhim[1].sin_addr.s_addr,
      (char *)&save_mc.sin_addr.s_addr,
      sizeof(struct in_addr));
       bcopy((char *)&save_sinhim.sin_addr.s_addr,
      (char *)&sinhim[1].sin_addr.s_addr,
      sizeof(struct in_addr));
   }
   (void)Nwrite( fd[stream_idx + 1], buf, 4 ); /* rcvr start */
   if (two_bod) {
    usleep(250000);
    strcpy(buf, "BOD1");
    (void)Nwrite( fd[stream_idx + 1], buf, 4 ); /* rcvr start */
   }
   if (multicast) {
       bcopy((char *)&save_mc.sin_addr.s_addr,
      (char *)&sinhim[1].sin_addr.s_addr,
      sizeof(struct in_addr));
   }
   if (timeout)
    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");
 fflush(stdout);
}
if (udplossinfo)
 bcopy(&nbytes, buf + 24, 8);
if (!udp && !(format & NORETRANS) &&
    (nstream == 1) &&
    ((retransinfo == 1) ||
     ((retransinfo >= 2) &&
      (force_retrans >= retransinfo)))) {
 uint32_t tmp;

 if (client) {
  if (trans || send_retrans)
   do_retrans = 1;
  if (trans)
   send_retrans = 1;
  if (!udp)
   bzero(buf + 24, 8);
 }
 else {
  if (retransinfo == 1)
   tmp = 0x5254524Eu;  /* "RTRN" */
  else
   tmp = 0x48525452u;  /* "HRTR" */
  bcopy(&nretrans[1], buf + 24, 4);
  bcopy(&tmp, buf + 28, 4);
  do_retrans = 0;
 }
}
else {
 send_retrans = 0;
 do_retrans = 0;
 if (!udp)
  bzero(buf + 24, 8);
}
if (!udp && !(format & NOCWND) &&
    (nstream == 1) && cwndinfo) {
 if (client) {
  if (trans || send_cwnd)
   do_cwnd = 1;
  if (trans)
   send_cwnd = 1;
 }
 else {
  do_cwnd = 0;
 }
```

```
}
else {
 send_cwnd = 0;
 do_cwnd = 0;
}
if (nbuf == INT_MAX)
 nbuf = ULLONG_MAX;
if (!client) {
 /* check if client went away */
 pollfds[0].fd = fileno(ctlconn);
 save_events = pollfds[0].events;
 pollfds[0].events = POLLIN | POLLPRI;
 pollfds[0].revents = 0;
 if ((poll(pollfds, 1, 0) > 0) &&
     (pollfds[0].revents & (POLLIN | POLLPRI))) {
  nbuf = 0;
  intr = 1;
 }
 pollfds[0].events = save_events;
}
while (nbuf-- && ((cnt = Nwrite(fd[stream_idx + 1], buf, buflen)) == buflen) && !intr) {
 if (clientserver && ((nbuf & 0x3FF) == 0)) {
     if (!client) {
  /* check if client went away */
  pollfds[0].fd = fileno(ctlconn);
  save_events = pollfds[0].events;
  pollfds[0].events = POLLIN | POLLPRI;
  pollfds[0].revents = 0;
  if ((poll(pollfds, 1, 0) > 0)
   && (pollfds[0].revents &
    (POLLIN | POLLPRI)))
   intr = 1;
  pollfds[0].events = save_events;
     }
     else if (handle_urg) {
  /* check for urgent TCP data
   * on control connection */
  pollfds[0].fd = fileno(ctlconn);
  save_events = pollfds[0].events;
  pollfds[0].events = POLLPRI;
  pollfds[0].revents = 0;
  if ((poll(pollfds, 1, 0) > 0)
   && (pollfds[0].revents &
    POLLPRI)) {
   tmpbuf[0] = '\0';
   if ((recv(fd[0], tmpbuf, 1,
      MSG_OOB) == -1) &&
       (errno == EINVAL))
```

```
        recv(fd[0], tmpbuf,
            1, 0);
        if (tmpbuf[0] == 'A')
         intr = 1;
        else
         err("recv urgent data");
       }
       pollfds[0].events = save_events;
         }
      }
      nbytes += buflen;
      cnt = 0;
      if (udplossinfo)
       bcopy(&nbytes, buf + 24, 8);
      if (send_retrans) {
       nretrans[1] = get_retrans(
        fd[stream_idx + 1],
        &tcpinf);
       nretrans[1] -= iretrans[1];
       bcopy(&nretrans[1], buf + 24, 4);
      }
#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 */
#ifdef DEBUG
       if (format & DEBUGPOLL) {
        fprintf(stdout, "got something %d: ", i);
          for ( i = 0; i < nstream + 1; i++ ) {
       if (pollfds[i].revents & POLLIN) {
        fprintf(stdout, " rfd %d",
         pollfds[i].fd);
       }
       if (pollfds[i].revents & POLLPRI) {
        fprintf(stdout, " pfd %d",
         pollfds[i].fd);
       }
       if (pollfds[i].revents & POLLOUT) {
```

```
        fprintf(stdout, " wfd %d",
         pollfds[i].fd);
        }
        if (pollfds[i].revents & POLLERR) {
         fprintf(stdout, " xfd %d",
          pollfds[i].fd);
        }
        if (pollfds[i].revents & POLLHUP) {
         fprintf(stdout, " hfd %d",
          pollfds[i].fd);
        }
        if (pollfds[i].revents & POLLNVAL) {
         fprintf(stdout, " nfd %d",
          pollfds[i].fd);
        }
          }
         fprintf(stdout, "\n");
         fflush(stdout);
          }
        if (format & DEBUGPOLL) {
         fprintf(stdout, "got server output: %s", intervalbuf);
         fflush(stdout);
        }
    #endif
        while (fgets(intervalbuf, sizeof(intervalbuf), stdin))
        {
        if (strncmp(intervalbuf, "DONE", 4) == 0) {
         if (format & DEBUGPOLL) {
          fprintf(stdout, "got DONE\n");
          fflush(stdout);
         }
         got_done = 1;
         intr = 1;
         do_poll = 0;
         break;
        }
        else if (strncmp(intervalbuf, "nuttcp-r", 8) == 0) {
         if ((brief <= 0) ||
             strstr(intervalbuf,
              "Warning") ||
             strstr(intervalbuf,
              "Error") ||
             strstr(intervalbuf,
              "Debug")) {
          if (*ident) {
           fputs("nuttcp-r", stdout);
           fputs(ident, stdout);
           fputs(intervalbuf + 8, stdout);
```

```
 }
 else
  fputs(intervalbuf, stdout);
 fflush(stdout);
 }
}
else {
 if (*ident)
  fprintf(stdout, "%s: ", ident + 1);
 cp1 = intervalbuf +
 strlen(intervalbuf) - 1;
 /* ugly kludge to get rid of
  * server "0 retrans" info at
  * start of transfer for small
  * interval reports -
  * hopefully it won't be
  * necessary to also check
  * at end of transfer when
  * processing server output */
 if (!got_0retrans) {
    if (format & PARSE) {
 if ((cp2 = strstr(
      intervalbuf,
      "host-"
      "retrans")))
     *(cp2 - 1) = '\0';
 else if ((cp2 = strstr(
      intervalbuf,
      "retrans")))
     *(cp2 - 1) = '\0';
 else {
     *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,
            (nretrans[1] -
           pretrans),
            (retransinfo == 1) ?
           "" : "host-");
            pretrans = nretrans[1];
        }
#if defined(linux)
        if (do_cwnd && sinkmode) {
            cwnd[1] =
                tcpinf.tcpinfo_snd_cwnd
          *datamss/1024;
            if (format & PARSE)
          fprintf(stdout,
             P_CWND_FMT_INTERVAL,
             cwnd[1]);
            else
          fprintf(stdout,
             CWND_FMT_INTERVAL,
             cwnd[1]);
        }
#endif
        if (do_retrans && cp1 && ch) {
            *cp1 = ch;
            fputs(cp1, stdout);
        }
        fprintf(stdout, "\n");
        fflush(stdout);
       }
       }
      }
     if (do_poll && (pollst < 0)) {
      if (errno == EINTR)
       break;
      err("poll");
     }
    }
    nbytes -= buflen;
    if (intr && (cnt > 0))
     nbytes += cnt;
    if (udp) {
     if (multicast)
         bcopy((char *)&save_sinhim.sin_addr.s_addr,
        (char *)&sinhim[1].sin_addr.s_addr,
        sizeof(struct in_addr));
     strcpy(buf, "EOD0");
```

```
 (void)Nwrite( fd[stream_idx + 1], buf, 4 ); /* rcvr end */
 }
}
else {
 first_read = 1;
 first_jitter = 1;
 first_jitteri = 1;
 nowd = 0;
 nowdi = 0;
 owd_min = 1000000.0;
 owd_mini = 1000000.0;
 owd_max = -1000000.0;
 owd_maxi = -1000000.0;
 owd_avg = 0.0;
 owd_avgi = 0.0;
 need_swap = 0;
 bzero(buf + 24, 8);
 if (udp) {
    ntbytesc = 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;
      }
      break;
```

```
}
else if (!got_begin) {
 if (interval)
  setitimer(ITIMER_REAL,
    &itimer, 0);
 prep_timer();
 got_begin = 1;
}
else if (got_eod0) {
 /* got data after EOD0, so
  * extend EOD0 time */
 get_timeofday(&time_eod0,
 (struct timezone *)0);
}
if (!got_begin)
 continue;
nbytes += cnt;
cnt = 0;
/* problematic if the interval timer
 * goes off right here */
if (udplossinfo) {
 if (first_read) {
  bcopy(buf + 24, &ntbytesc,
8);
  first_read = 0;
  if (ntbytesc > 0x100000000ull)
   need_swap = 1;
  if (!need_swap) {
   stream_idx++;
   stream_idx =
stream_idx
    % nstream;
   continue;
  }
 }
 if (!need_swap)
  bcopy(buf + 24, &ntbytesc,
8);
 else {
  cp1 = (char *)&ntbytesc;
  cp2 = buf + 31;
  for ( i = 0; i < 8; i++ )
   *cp1++ = *cp2--;
 }
}
if (do_jitter) {
 if (first_jitter) {
  get_timeofday(
```

```
        &timepkr,
        (struct timezone *)0);
          timepkri = timepkr;
          first_jitter = 0;
          first_jitteri = 0;
          ntbytescp = ntbytesc;
          ntbytescpi = ntbytesc;
          jitter = 0.0;
          jitteri = 0.0;
          njitter = 0;
          njitteri = 0;
          jitter_min = 1000000.0;
          jitter_mini = 1000000.0;
          jitter_max = -1000000.0;
          jitter_maxi = -1000000.0;
          jitter_avg = 0.0;
          jitter_avgi = 0.0;
#ifdef DEBUG
          if (clientserver &&
        client &&
        (format & DEBUGJITTER))
        fprintf(stdout,
           "pkt_time_ms"
           " = %6.3f ms\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) {
```

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

           tvsub( &timed, &timerx, &timepkr );
           pkt_delta =
        timed.tv_sec*1000
            + ((double)timed.tv_usec)
          / 1000;
           pkt_delta -= pkt_time_ms;
           if (pkt_delta >= 0)
        jitter = pkt_delta;
           else
        jitter = -pkt_delta;
           njitter++;
           if (jitter < jitter_min)
        jitter_min = jitter;
           if (jitter > jitter_max)
        jitter_max = jitter;
           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;
           ntbytescp = 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");
    }
   }
#endif
   while ((cnt=Nread(fd[stream_idx + 1], buf, buflen)) > 0 &&
       ((cnt != 4) || strncmp(buf, "EOD", 3) != 0) &&
       mwrite(savestdout, buf, cnt,
       cnt != buflen) == cnt) {
    nbytes += cnt;
    cnt = 0;
    stream_idx++;
    stream_idx = stream_idx % nstream;
   }
  }
 }
 if (errno && (errno != EAGAIN)) {
  if ((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, &itimer, 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);
      fputs(trans ?
       "-r" : "-t",
     stdout);
      fputs(ident,
     stdout);
      fputs(intervalbuf
       + 8,
     stdout);
  }
  else
      fputs(intervalbuf,
     stdout);
  fflush(stdout);
 }
 if (strstr(intervalbuf,
     "Error"))
  exit(1);
```

```
}
else {
 if (*ident)
  fprintf(stdout, "%s: ",
   ident + 1);
 intervalbuf[strlen(intervalbuf)
  - 1] = '\0';
 if (do_retrans) {
     cp1 = strstr(intervalbuf,
    "Mbps") + 4;
     ch = '\0';
     if (cp1) {
  if (format & PARSE) {
      cp1 = strchr(cp1,
     '.');
      if (cp1)
   cp1 += 5;
  }
  ch = *cp1;
     }
     if (ch)
  *cp1 = '\0';
 }
 fputs(intervalbuf, stdout);
 if (do_retrans && sinkmode &&
     (nstream == 1)) {
     nretrans[1] =
       get_retrans(
      fd[stream_idx],
      &tcpinf);
     nretrans[1] -= iretrans[1];
     if (format & PARSE)
  fprintf(stdout,
   P_RETRANS_FMT_INTERVAL,
     (retransinfo == 1) ?
   "" : "host-",
     (nretrans[1]
   - pretrans));
     else
  fprintf(stdout,
   RETRANS_FMT_INTERVAL,
     (nretrans[1]
   - pretrans),
     (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_srvr_info = 0;
    flags = fcntl(0, F_GETFL, 0);
    if (flags < 0)
     err("fcntl 1");
    flags &= ~O_NONBLOCK;
    if (fcntl(0, F_SETFL, flags) < 0)
     err("fcntl 2");
    itimer.it_value.tv_sec = 0;
    itimer.it_value.tv_usec = 0;
    setitimer(ITIMER_REAL, &itimer, 0);
   }

   if (getsockopt(fd[stream_idx], SOL_TCP, TCP_INFO,
         (void *)&tcpinf, &optlen) < 0) {
    mes("couldn't collect TCP info\n");
    retransinfo = -1;
    cwndinfo = 0;
   }
   if (unsent > 0) {
    /* assume receiver went away */
    if (clientserver && client) {
     mes("Error: timeout while draining "
         "socket send queue");
     exit(1);
    }
    goto cleanup;
   }

   if (format & DEBUGRETRANS)
    print_tcpinfo();
#endif
   if (retransinfo > 0) {
    if ((stream_idx == 1) || (retransinfo == 1)) {
     nretrans[stream_idx] =
      get_retrans(fd[stream_idx],
          &tcpinf);
     nretrans[stream_idx] -=
      iretrans[stream_idx];
#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 = 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[1], &tcpinf);
  nretrans[1] -= iretrans[1];
  if (format & PARSE)
   fprintf(stdout, P_RETRANS_FMT_INTERVAL,
    (retransinfo == 1) ?
     "" : "host-",
    (nretrans[1] - pretrans));
  else
   fprintf(stdout, RETRANS_FMT_INTERVAL,
```

```
      (nretrans[1] - pretrans),
      (retransinfo == 1) ?
       "" : "host-");
     pretrans = nretrans[1];
    }
#if defined(linux)
    if (do_cwnd && sinkmode) {
     cwnd[1] = tcpinf.tcpinfo_snd_cwnd
       *datamss/1024;
     if (format & PARSE)
      fprintf(stdout, P_CWND_FMT_INTERVAL,
       cwnd[1]);
     else
      fprintf(stdout, CWND_FMT_INTERVAL,
       cwnd[1]);
    }
#endif
    if (do_retrans && cp1 && ch) {
     *cp1 = ch;
     fputs(cp1, stdout);
    }
    fprintf(stdout, "\n");
    fflush(stdout);
   }
   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, "\n");
 }
}
else if (strstr(cp1, "sys")) {
 strcpy(fmt, "nuttcp-%*c: ");
 if (format & PARSE) {
  strcat(fmt, "stats=cpu ");
```

```
 strcat(fmt, P_CPU_STATS_FMT_IN2);
 }
 else
 strcat(fmt, CPU_STATS_FMT_IN2);
 if (sscanf(cp1, fmt,
    &srvr_cpu_util) != 7) {
 strcpy(fmt, "nuttcp-%*c: ");
 if (format & PARSE) {
  strcat(fmt, "stats=cpu ");
  strcat(fmt,
        P_CPU_STATS_FMT_IN);
 }
 else
  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++;
```

```
 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;
 }
 if (cp2) {
  sscanf(cp2, "%d", &cwnd[1]);
  stream_idx = 2;
  while ((stream_idx <=
    nstream) &&
       (cp2 = strchr(cp2,
       '+'))) {
   cp2++;
   sscanf(cp2, "%d",
      &cwnd[stream_idx]);
   stream_idx++;
  }
 }
}
```

```
 }
 else if ((cp2 = strstr(cp1, "RTT")) ||
   (cp2 = strstr(cp1, "rtt"))) {
  if (format & PARSE)
   sscanf(cp2, P_RTT_FMT_IN, &rtt);
  else
   sscanf(cp2, RTT_FMT_IN, &rtt);
 }
 else if ((cp2 = strstr(cp1, "jitter"))) {
  if (format & PARSE)
   sscanf(cp2, P_JITTER_FMT_IN,
         &jitter_min, &jitter_avg,
         &jitter_max);
  else
   sscanf(cp2, JITTER_FMT_IN,
         &jitter_min, &jitter_avg,
         &jitter_max);
  njitter = 1;
 }
 else if ((cp2 = strstr(cp1, "OWD"))) {
  if (format & PARSE)
   sscanf(cp2, P_OWD_FMT_IN,
         &owd_min, &owd_avg, &owd_max);
  else
   sscanf(cp2, OWD_FMT_IN,
         &owd_min, &owd_avg, &owd_max);
  nowd = 1;
 }
 else if ((strstr(cp1, "KB/cpu")) && !verbose)
  continue;
 strncpy(tmpbuf, cp1, 256);
 *(tmpbuf + 256) = '\0';
 if (strncmp(tmpbuf, "nuttcp-", 7) == 0)
  sprintf(cp1, "nuttcp-%c%s%s",
   tmpbuf[7], ident, tmpbuf + 8);
 if ((strstr(cp1, "Warning") ||
      strstr(cp1, "Error") ||
      strstr(cp1, "Debug"))
   && (brief > 0)) {
  fputs(cp1, stdout);
  fflush(stdout);
 }
 cp1 += strlen(cp1);
}
itimer.it_value.tv_sec = 0;
itimer.it_value.tv_usec = 0;
setitimer(ITIMER_REAL, &itimer, 0);
got_srvr_output = 1;
```

```
 if (!udp && !trans) {
  if (!got_srvr_retrans)
   retransinfo = -1;
  if (!got_srvr_cwnd)
   cwndinfo = 0;
 }
}

if (!udp && trans) {
 if (retransinfo > 0) {
  total_retrans = 0;
  for ( stream_idx = 1; stream_idx <= nstream; stream_idx++ ) {
   total_retrans += nretrans[stream_idx];
  }
 }
 if (cwndinfo) {
  total_snd_cwnd = 0;
  for ( stream_idx = 1; stream_idx <= nstream; stream_idx++ ) {
   total_snd_cwnd += cwnd[stream_idx];
  }
 }
}

if (brief <= 0) {
 strcpy(fmt, "nuttcp%s%s: ");
 if (format & PARSE)
  strcat(fmt, P_PERF_FMT_OUT);
 else
  strcat(fmt, PERF_FMT_OUT);
 fprintf(stdout, fmt, trans?"-t":"-r", ident,
  (double)nbytes/(1024*1024), realt,
  (double)nbytes/realt/1024,
  (double)nbytes/realt/125000);
 if (clientserver && client && !trans && udp) {
  fprintf(stdout, "nuttcp-r%s:", ident);
  if (format & PARSE)
   strcpy(fmt, P_DROP_FMT);
  else
   strcpy(fmt, DROP_FMT);
  fprintf(stdout, fmt,
   (int64_t)(((srvr_MB - MB)*1024*1024)
    /buflen + 0.5),
   (uint64_t)((srvr_MB*1024*1024)/buflen + 0.5));
  fractloss = ((srvr_MB != 0.0) ? 1 - MB/srvr_MB : 0.0);
  if (format & PARSE)
   strcpy(fmt, P_LOSS_FMT);
  else if ((fractloss != 0.0) && (fractloss < 0.001))
   strcpy(fmt, LOSS_FMT5);
```

```
 else
  strcpy(fmt, LOSS_FMT);
 fprintf(stdout, fmt, fractloss * 100);
 fprintf(stdout, "\n");
}
if (clientserver && udp && !trans && do_jitter && njitter) {
 strcpy(fmt, "nuttcp%s%s: ");
 if (format & PARSE)
  strcat(fmt, P_JITTER_FMT);
 else
  strcat(fmt, JITTER_FMT);
 fprintf(stdout, fmt, trans?"-t":"-r", ident,
  jitter_min, jitter_avg/njitter, jitter_max);
 fprintf(stdout, "\n");
}
if (clientserver && !trans && do_owd && nowd) {
 strcpy(fmt, "nuttcp%s%s: ");
 if (format & PARSE)
  strcat(fmt, P_OWD_FMT);
 else
  strcat(fmt, OWD_FMT);
 fprintf(stdout, fmt, trans?"-t":"-r", ident,
  owd_min, owd_avg/nowd, owd_max);
 fprintf(stdout, "\n");
}
if (verbose) {
 strcpy(fmt, "nuttcp%s%s: ");
 if (format & PARSE)
  strcat(fmt, "megabytes=%.4f cpu_seconds=%.2f KB_per_cpu_second=%.2f\n");
 else
  strcat(fmt, "%.4f MB in %.2f CPU seconds = %.2f KB/cpu sec\n");
 fprintf(stdout, fmt,
  trans?"-t":"-r", ident,
  (double)nbytes/(1024*1024), cput,
  (double)nbytes/cput/1024);
}
if (!udp && trans && (retransinfo > 0)) {
 fprintf(stdout, "nuttcp%s%s: ",
  trans ? "-t" : "-r", ident);
 if (format & PARSE)
  strcpy(fmt, P_RETRANS_FMT);
 else
  strcpy(fmt, RETRANS_FMT);
 fprintf(stdout, fmt,
  retransinfo == 1 ? "" : "host-", total_retrans);
 if ((nstream > 1) && (retransinfo == 1) &&
     total_retrans) {
  if (format & PARSE)
```

```
      fprintf(stdout, P_RETRANS_FMT_STREAMS,
       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, " )");
    }
#if defined(linux)
    if (cwndinfo) {
     if (format & PARSE)
      strcpy(fmt, P_CWND_FMT);
     else
      strcpy(fmt, CWND_FMT);
     fprintf(stdout, fmt, total_snd_cwnd);
     if ((nstream > 1) && (retransinfo == 1) &&
         total_snd_cwnd) {
      if (format & PARSE)
       fprintf(stdout, P_CWND_FMT_STREAMS,
        cwnd[1]);
      else
       fprintf(stdout, " ( %d", cwnd[1]);
      for ( stream_idx = 2; stream_idx <= nstream;
           stream_idx++ ) {
       fprintf(stdout, "+%d",
        cwnd[stream_idx]);
      }
      if (!(format & PARSE))
       fprintf(stdout, " )");
     }
    }
#endif
    fprintf(stdout, "\n");
   }

   strcpy(fmt, "nuttcp%s%s: ");
   if (format & PARSE)
    strcat(fmt, "io_calls=%d msec_per_call=%.2f calls_per_sec=%.2f\n");
   else
    strcat(fmt, "%d I/O calls, msec/call = %.2f, calls/sec = %.2f\n");
   fprintf(stdout, fmt,
    trans?"-t":"-r", ident,
    numCalls,
    1024.0 * realt/((double)numCalls),
```

```
 ((double)numCalls)/realt);

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

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

if (brief && clientserver && client) {
 if ((brief < 0) || interval)
  fprintf(stdout, "\n");
 if (udp) {
  if (trans) {
   if (*ident)
    fprintf(stdout, "%s: ", ident + 1);
   if (format & PARSE)
    strcpy(fmt, P_PERF_FMT_BRIEF);
   else
    strcpy(fmt, PERF_FMT_BRIEF);
   fprintf(stdout, fmt,
    srvr_MB, srvr_realt, srvr_Mbps,
    cpu_util, srvr_cpu_util);
   if (!(format & NODROPS)) {
    if (format & PARSE)
     strcpy(fmt, P_DROP_FMT_BRIEF);
    else
     strcpy(fmt, DROP_FMT_BRIEF);
    fprintf(stdout, fmt,
     (int64_t)(((MB - srvr_MB)
      *1024*1024)
       /buflen + 0.5),
     (uint64_t)((MB*1024*1024)
      /buflen + 0.5));
   }
```

```
if (!(format & NOPERCENTLOSS)) {
 fractloss = ((MB != 0.0) ?
  1 - srvr_MB/MB : 0.0);
 if (format & PARSE)
  strcpy(fmt, P_LOSS_FMT_BRIEF);
 else if ((fractloss != 0.0) &&
   (fractloss < 0.001))
  strcpy(fmt, LOSS_FMT_BRIEF5);
 else
  strcpy(fmt, LOSS_FMT_BRIEF);
 fprintf(stdout, fmt, fractloss * 100);
}
if (format & XMITSTATS) {
 if (format & PARSE)
  strcpy(fmt, P_PERF_FMT_BRIEF3);
 else
  strcpy(fmt, PERF_FMT_BRIEF3);
 fprintf(stdout, fmt, MB);
}
if ((do_jitter & JITTER_MIN) && njitter) {
 if (format & PARSE)
  strcpy(fmt,
        P_JITTER_MIN_FMT_BRIEF);
 else
  strcpy(fmt,
        JITTER_MIN_FMT_BRIEF);
 fprintf(stdout, fmt, jitter_min);
}
if ((do_jitter & JITTER_AVG) && njitter) {
 if (format & PARSE)
  strcpy(fmt,
        P_JITTER_AVG_FMT_BRIEF);
 else
  strcpy(fmt,
        JITTER_AVG_FMT_BRIEF);
 fprintf(stdout, fmt,
  jitter_avg/njitter);
}
if ((do_jitter & JITTER_MAX) && njitter) {
 if (format & PARSE)
  strcpy(fmt,
        P_JITTER_MAX_FMT_BRIEF);
 else
  strcpy(fmt,
        JITTER_MAX_FMT_BRIEF);
 fprintf(stdout, fmt, jitter_max);
}
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) ?
```

```
 1 - MB/srvr_MB : 0.0);
 if (format & PARSE)
  strcpy(fmt, P_LOSS_FMT_BRIEF);
 else if ((fractloss != 0.0) &&
   (fractloss < 0.001))
  strcpy(fmt, LOSS_FMT_BRIEF5);
 else
  strcpy(fmt, LOSS_FMT_BRIEF);
 fprintf(stdout, fmt, fractloss * 100);
}
if (format & XMITSTATS) {
 if (format & PARSE)
  strcpy(fmt, P_PERF_FMT_BRIEF3);
 else
  strcpy(fmt, PERF_FMT_BRIEF3);
 fprintf(stdout, fmt, srvr_MB);
}
if ((do_jitter & JITTER_MIN) && njitter) {
 if (format & PARSE)
  strcpy(fmt,
        P_JITTER_MIN_FMT_BRIEF);
 else
  strcpy(fmt,
        JITTER_MIN_FMT_BRIEF);
 fprintf(stdout, fmt, jitter_min);
}
if ((do_jitter & JITTER_AVG) && njitter) {
 if (format & PARSE)
  strcpy(fmt,
        P_JITTER_AVG_FMT_BRIEF);
 else
  strcpy(fmt,
        JITTER_AVG_FMT_BRIEF);
 fprintf(stdout, fmt,
  jitter_avg/njitter);
}
if ((do_jitter & JITTER_MAX) && njitter) {
 if (format & PARSE)
  strcpy(fmt,
        P_JITTER_MAX_FMT_BRIEF);
 else
  strcpy(fmt,
        JITTER_MAX_FMT_BRIEF);
 fprintf(stdout, fmt, jitter_max);
}
if ((do_owd & OWD_MIN) && nowd) {
 if (format & PARSE)
  strcpy(fmt,
```

```
            P_OWD_MIN_FMT_BRIEF);
          else
           strcpy(fmt, OWD_MIN_FMT_BRIEF);
          fprintf(stdout, fmt, owd_min);
         }
         if ((do_owd & OWD_AVG) && nowd) {
          if (format & PARSE)
           strcpy(fmt,
            P_OWD_AVG_FMT_BRIEF);
          else
           strcpy(fmt, OWD_AVG_FMT_BRIEF);
          fprintf(stdout, fmt, owd_avg/nowd);
         }
         if ((do_owd & OWD_MAX) && nowd) {
          if (format & PARSE)
           strcpy(fmt,
            P_OWD_MAX_FMT_BRIEF);
          else
           strcpy(fmt, OWD_MAX_FMT_BRIEF);
          fprintf(stdout, fmt, owd_max);
         }
        }
        fprintf(stdout, "\n");
       }
       else
        if (trans) {
         if ((retransinfo > 0) &&
            (!(format & NORETRANS))) {
          if (format & DEBUGRETRANS) {
            sretrans = get_retrans(-1, &tcpinf);
            fprintf(stdout,
           "report system retrans = %d\n",
           sretrans);
          }
         }
         if (*ident)
          fprintf(stdout, "%s: ", ident + 1);
         if (format & PARSE)
          strcpy(fmt, P_PERF_FMT_BRIEF);
         else
          strcpy(fmt, PERF_FMT_BRIEF);
         fprintf(stdout, fmt,
          srvr_MB, srvr_realt, srvr_Mbps,
          cpu_util, srvr_cpu_util);
         if ((nstream > 1) && (retransinfo == 1) &&
            total_retrans && !(format & NORETRANS) &&
            (brief & BRIEF_RETRANS_STREAMS)) {
          if (format & PARSE) {
```

```
            fprintf(stdout, P_RETRANS_FMT_BRIEF,
             "", total_retrans);
            fprintf(stdout,
             P_RETRANS_FMT_STREAMS,
             nretrans[1]);
          }
          else {
            fprintf(stdout,
             RETRANS_FMT_BRIEF_STR1,
             total_retrans,
             nretrans[1]);
          }
          for ( stream_idx = 2;
              stream_idx <= nstream;
              stream_idx++ ) {
            fprintf(stdout, "+%d",
             nretrans[stream_idx]);
          }
          if (!(format & PARSE))
            fprintf(stdout,
             RETRANS_FMT_BRIEF_STR2);
        }
        else if ((retransinfo > 0) &&
           (!(format & NORETRANS))) {
          if (format & PARSE)
           fprintf(stdout,
            P_RETRANS_FMT_BRIEF,
            retransinfo == 1 ?
             "" : "host-",
            total_retrans);
          else
           fprintf(stdout,
            RETRANS_FMT_BRIEF,
            total_retrans,
            retransinfo == 1 ?
             "" : "host-");
        }
      #if defined(linux)
        if ((nstream > 1) && cwndinfo &&
           (retransinfo == 1) &&
           total_snd_cwnd && !(format & NOCWND) &&
           (brief & BRIEF_CWND_STREAMS)) {
          if (format & PARSE) {
            fprintf(stdout, P_CWND_FMT_BRIEF,
             total_snd_cwnd);
            fprintf(stdout,
             P_CWND_FMT_STREAMS,
             cwnd[1]);
```

```
        }
        else {
            fprintf(stdout,
             CWND_FMT_BRIEF_STR1,
             total_snd_cwnd,
             cwnd[1]);
        }
        for ( stream_idx = 2;
              stream_idx <= nstream;
              stream_idx++ ) {
            fprintf(stdout, "+%d",
             cwnd[stream_idx]);
        }
        if (!(format & PARSE))
            fprintf(stdout,
             CWND_FMT_BRIEF_STR2);
       }
       else if (cwndinfo && (!(format & NOCWND))) {
        if (format & PARSE)
         fprintf(stdout,
          P_CWND_FMT_BRIEF,
          total_snd_cwnd);
        else
         fprintf(stdout,
          CWND_FMT_BRIEF,
          total_snd_cwnd);
       }
    #endif
       if (rtt && (format & WANTRTT)) {
        if (format & PARSE)
         strcpy(fmt, P_RTT_FMT_BRIEF);
        else
         strcpy(fmt, RTT_FMT_BRIEF);
        fprintf(stdout, fmt, rtt);
       }
       if ((do_owd & OWD_MIN) && nowd) {
        if (format & PARSE)
         strcpy(fmt,
              P_OWD_MIN_FMT_BRIEF);
        else
         strcpy(fmt, OWD_MIN_FMT_BRIEF);
        fprintf(stdout, fmt, owd_min);
       }
       if ((do_owd & OWD_AVG) && nowd) {
        if (format & PARSE)
         strcpy(fmt,
              P_OWD_AVG_FMT_BRIEF);
        else
```

```
  strcpy(fmt, OWD_AVG_FMT_BRIEF);
 fprintf(stdout, fmt, owd_avg/nowd);
 }
 if ((do_owd & OWD_MAX) && nowd) {
  if (format & PARSE)
   strcpy(fmt,
          P_OWD_MAX_FMT_BRIEF);
  else
   strcpy(fmt, OWD_MAX_FMT_BRIEF);
  fprintf(stdout, fmt, owd_max);
 }
 fprintf(stdout, "\n");
}
else {
 if (*ident)
  fprintf(stdout, "%s: ", ident + 1);
 if (format & PARSE)
  strcpy(fmt, P_PERF_FMT_BRIEF);
 else
  strcpy(fmt, PERF_FMT_BRIEF);
 fprintf(stdout, fmt,
  MB, realt, (double)nbytes/realt/125000,
  srvr_cpu_util, cpu_util);
 if ((nstream > 1) && (retransinfo == 1) &&
     total_retrans && !(format & NORETRANS) &&
     (brief & BRIEF_RETRANS_STREAMS) &&
     (irvers >= 70101)) {
  if (format & PARSE) {
      fprintf(stdout, P_RETRANS_FMT_BRIEF,
       "", 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 ((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,
```

```
      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,
```

```
    realt, (double)nbytes/realt/125000, cpu_util,
    trans?"TX":"RX");
   }
  }

cleanup:
  if (clientserver) {
   if (client) {
    itimer.it_value.tv_sec = SRVR_INFO_TIMEOUT;
    itimer.it_value.tv_usec = 0;
    setitimer(ITIMER_REAL, &itimer, 0);
    if (brief <= 0)
     fputs("\n", stdout);
    if (brief <= 0) {
     if (got_srvr_output) {
      fputs(srvrbuf, stdout);
     }
    }
    else {
     while (fgets(buf, mallocsize, stdin)) {
      setitimer(ITIMER_REAL, &itimer, 0);
      fputs(buf, stdout);
     }
    }
    itimer.it_value.tv_sec = 0;
    itimer.it_value.tv_usec = 0;
    setitimer(ITIMER_REAL, &itimer, 0);
    fflush(stdout);
    close(0);
   }
   else {
    fflush(stdout);
    close(1);
    if (!inetd) {
     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\n",
     sretrans);
   }
  }
 }
 if (clientserver && !client) {
  for ( stream_idx = 1; stream_idx <= nstream; stream_idx++ ) {
   fd[stream_idx] = -1;
  }
  if (multilink &&
      ((trans && !reverse) || (!trans && reverse)) && !udp) {
   for ( stream_idx = 2; stream_idx <= nstream;
         stream_idx++ ) {
    res[stream_idx] = NULL;
   }
  }
  itimer.it_value.tv_sec = 0;
  itimer.it_value.tv_usec = 0;
  itimer.it_interval.tv_sec = 0;
  itimer.it_interval.tv_usec = 0;
  setitimer(ITIMER_REAL, &itimer, 0);
  signal(SIGALRM, SIG_DFL);
  bzero((char *)&frominet, sizeof(frominet));
  bzero((char *)&clientaddr, sizeof(clientaddr));
#ifdef AF_INET6
  bzero((char *)&clientaddr6, sizeof(clientaddr6));
  clientscope6 = 0;
#endif
  cput = 0.000001;
  realt = 0.000001;
  nbytes = 0;
  ntbytes = 0;
  ntbytesc = 0;
  chk_nbytes = 0;
  numCalls = 0;
/*  Don't re-initialize buflen since it's used to  */
/*  determine if we need to change the buffer memory */
/*  allocation for the next client data stream request */
/*  buflen = 64 * 1024;     */
/*  if (udp) buflen = DEFAULTUDPBUFLEN;   */
```

```
nbuf = 0;
sendwin = origsendwin;
rcvwin = origrcvwin;
b_flag = 1;
rate = MAXRATE;
maxburst = 1;
nburst = 1;
irate = 0;
iratesss = 0;
irate_cum_nsec = 0.0;
timeout = 0.0;
interval = 0.0;
chk_interval = 0.0;
chk_idle_data = 0.0;
datamss = 0;
tos = 0;
nodelay = 0;
do_poll = 0;
pbytes = 0;
ptbytes = 0;
ident[0] = '\0';
intr = 0;
abortconn = 0;
ipad_stride.ip32 = 0;
port = 5101;
srcport = 0;
trans = 0;
braindead = 0;
udp = 0;
udplossinfo = 0;
do_jitter = 0;
do_owd = 0;
retransinfo = 0;
init_pkt_cwnd = 0;
sss_pkt_cwnd = 0;
cwndinfo = 0;
force_retrans = 0;
rtt = 0.0;
which_rt = 1;
pretrans = 0;
sretrans = 0;
got_srvr_output = 0;
reading_srvr_info = 0;
reverse = 0;
format = 0;
traceroute = 0;
multicast = 0;
mc_addr = NULL;
```

```
 ssm = -1;
 skip_data = 0;
 host3 = NULL;
 thirdparty = 0;
 ctlport3 = 0;
 nbuf_bytes = 0;
 rate_pps = 0;
 brief = 0;
 done = 0;
 got_begin = 0;
 two_bod = 0;
 handle_urg = 0;
 for ( stream_idx = 0; stream_idx <= nstream; stream_idx++ ) {
  if (res[stream_idx]) {
   freeaddrinfo(res[stream_idx]);
   res[stream_idx] = NULL;
  }
  nretrans[stream_idx] = 0;
  iretrans[stream_idx] = 0;
  cwnd[stream_idx] = 0;
 }
 nstream = 1;
 multilink = 0;
 if (!oneshot)
  goto doit;
 exit(0);
}

 if (multilink) {
  for ( stream_idx = 2; stream_idx <= nstream; stream_idx++ ) {
   res[stream_idx] = NULL;
  }
 }
 for ( stream_idx = 0; stream_idx <= nstream; stream_idx++ ) {
  if (res[stream_idx]) {
   freeaddrinfo(res[stream_idx]);
   res[stream_idx] = NULL;
  }
 }

 exit(0);

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

static void
```

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

 fprintf(stderr, "nuttcp%s%s: v%d.%d.%d%s: Error: ", trans?"-t":"-r",
   ident, vers_major, vers_minor, vers_delta,
   beta ? BETA_STR : "");
 perror(s);
 fprintf(stderr, "errno=%d\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;
```

```
 timepk.tv_sec = time0.tv_sec;
 timepk.tv_usec = time0.tv_usec;
 getrusage(RUSAGE_SELF, &ru0);
}

/*
*   R E A D _ T I M E R
*
*/
double
read_timer( char *str, int len )
{
 struct timeval timedol;
 struct rusage ru1;
 struct timeval td;
 struct timeval tend, tstart;
 char line[132];

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

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

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

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

 t = (r1->ru_utime.tv_sec-r0->ru_utime.tv_sec)*100+
     (r1->ru_utime.tv_usec-r0->ru_utime.tv_usec)/10000+
     (r1->ru_stime.tv_sec-r0->ru_stime.tv_sec)*100+
```

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

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

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

 for ( ; *cp; cp++ ) {
  if (*cp != '%')
   *outp++ = *cp;
  else if (cp[1]) switch(*++cp) {

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

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

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

  case 'P':
   sprintf(outp, "%d%%", (int) (t*100 / ((ms ? ms : 1))));
   END(outp);
   break;

  case 'W':
   i = r1->ru_nswap - r0->ru_nswap;
   sprintf(outp, "%d", i);
   END(outp);
   break;

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

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

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

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

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

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

 case '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;
 }
 }
 *outp = '\0';
}

static void
```

```
tvadd( struct timeval *tsum, struct timeval *t0, struct timeval *t1 )
{

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

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

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

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

 i = 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 = l;
  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 */
  get_timeofday(&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;
   double pktwrtime;
   static int cnt = 0;

   cnt++;
   if (cnt == 1) {
    fprintf(debugout, "count = %d, datamss = %d, "
       "pktxmit = %.8f, "
       "rtt = %.6f, maxburst = %d\n",
     count, datamss,
     (double)count/rate/125,
     rtt/1000, maxburst);
   }
   get_timeofday(&timewr, (struct timezone *)0);
   tvsub( &td, &timewr, &time0 );
   pktwrtime = td.tv_sec + (double)td.tv_usec/1000000;
   fprintf(debugout, "pktwrtime = %.6f, pktdelay = %.6f, "
```

```
        "sss_pkt_cwnd = %d, "
        "cur_pkt_cwnd = %d, iratesss = %d, "
        "which_rt = %d\n",
        pktwrtime, pktdelay,
        sss_pkt_cwnd,
        (cwnd[1] + 1)*1024/datamss, iratesss,
        which_rt);
   }
#endif
   cnt = write( fd, buf, count );
   numCalls++;
  }
  return(cnt);
}

int
delay( int us )
{
  struct timeval tv;

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

/*
*   M R E A D
*
* This function performs the function of a read(II) but will
* call read(II) multiple times in order to get the requested
* number of characters.  This can be necessary because
* network connections don't deliver data with the same
* grouping as it is written with.  Written by Robert S. Miles, BRL.
*/
int
mread( int fd, register char *bufp, unsigned n )
{
  register unsigned count = 0;
  register int  nread;

  do {
   nread = read(fd, bufp, n-count);
   numCalls++;
   if (nread < 0) {
    if (errno != EINTR)
     perror("nuttcp_mread");
    return(-1);
```

```
  }
  if (nread == 0)
   return((int)count);
  count += (unsigned)nread;
  bufp += nread;
  } while (count < n);

 return((int)count);
}

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

 if (directio && last_write) {
  flags = fcntl(savestdout, F_GETFL, 0);
  if (flags < 0)
   errmes("fcntl get O_DIRECT");
  else {
   flags &= ~O_DIRECT;
   if (fcntl(savestdout, F_SETFL, flags) < 0)
    errmes("fcntl set O_DIRECT");
  }
 }
#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);
}

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

 *skiparg = 0;
 nextarg = argv + 1;

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

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

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

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

 /* if the option requires a value, return the next arg
```

```
   as the option value */
 if (reqval) {
  *skiparg = 1;
  return(*nextarg);
 }

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

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

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

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

 return(*nextarg);
}

#define PROC_SNMP  "/proc/net/snmp"
#define PROC_BUF_LEN  256
#define PROC_BUF_LEN2  128
#define NETSTAT   "netstat"

#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/"
```

```
#define NRETRANS_BEFORE
#elif defined(sparc)
#define RETRANS   "tcpRetransSegs"
#define NETSTAT_DIR  "/usr/bin/"
#elif defined(sgi)
#define RETRANS   "retransmitted"
#define NETSTAT_DIR  "/usr/etc/"
#define NRETRANS_BEFORE
#elif defined(__CYGWIN__) || defined(_WIN32)
#define RETRANS   "Segments Retransmitted"
#define NETSTAT_DIR  ""
#else
#define RETRANS   "retransmitted"
#define NETSTAT_DIR  "/usr/bin/"
#define NRETRANS_BEFORE
#endif

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

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

 if (retransinfo < 0)
  return(0);

#if defined(linux) && defined(TCPI_OPT_TIMESTAMPS)
 if ((retransinfo <= 1) && (sockfd >= 0)) {
  optlen = sizeof(*tcpinfo);
  if (getsockopt(sockfd, SOL_TCP, TCP_INFO, (void *)tcpinfo,
         &optlen) == 0) {
   if (optlen >= SIZEOF_TCP_INFO_RETRANS) {
    retransinfo = 1;
    cwndinfo = 1;
    b_flag = 1;
    return(tcpinfo->tcpi_total_retrans);
   }
  }
  if (retransinfo == 1) {
   retransinfo = -1;
   cwndinfo = 0;
```

```
  return(0);
 }
 retransinfo = 2;
 cwndinfo = 0;
}
#else
 retransinfo = 2;
 cwndinfo = 0;
#endif

 if ((retransinfo == 3) || (!(proc_snmp = fopen(PROC_SNMP, "r")))) {
  retransinfo = 3;
  cwndinfo = 0;
  if (pipe(pipefd) != 0) {
   retransinfo = -1;
   cwndinfo = 0;
   return(0);
  }
  if ((pid = fork()) == (pid_t)-1) {
   perror("can't fork");
   close(pipefd[0]);
   close(pipefd[1]);
   retransinfo = -1;
   cwndinfo = 0;
   return(0);
  }
  if (pid == 0) {
   signal(SIGINT, SIG_DFL);
   close(1);
   close(2);
   dup(pipefd[1]);
   dup(pipefd[1]);
   close(pipefd[0]);
   close(pipefd[1]);
   execl(NETSTAT_DIR NETSTAT, NETSTAT, "-s", NULL);
   perror("execl failed");
   fprintf(stderr, "failed to execute %s%s -s\n",
    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))
   || (strncmp(proc_buf2, "Tcp:", 4) != 0))
   break;
  cp = proc_buf;
  cp2 = proc_buf2;
  while ((cp = strchr(cp, ' '))) {
   while (*++cp == ' ')
    ;
   if (!(*cp))
    goto close;
   if (!(cp2 = strchr(cp2, ' ')))
    goto close;
   while (*++cp2 == ' ')
    ;
   if (!(*cp2))
    goto close;
   if (strncmp(cp, "RetransSegs", 11) == 0) {
    if (!isdigit((int)(*cp2)))
     goto close;
    num_retrans = atoi(cp2);
    goto close;
   }
   else
    continue;
  }
 }
 else {
  if ((cp = strstr(proc_buf, RETRANS))) {
#ifdef NRETRANS_BEFORE
    num_retrans = atoi(proc_buf);
#else
    cp2 = strchr(cp, '=');
    cp2++;
    num_retrans = atoi(cp2);
#endif
    break;
   }
  }
 }
```

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

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

 return(num_retrans);
}

#if defined(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, fackets = %d, "
   "rtt = %d, rttvar = %d\n",
  tcpinf.tcpinfo_lost, tcpinf.tcpinfo_retrans,
  tcpinf.tcpinfo_fackets, tcpinf.tcpinfo_rtt,
  tcpinf.tcpinfo_rttvar);
 fprintf(stdout, "          snd_ssthresh = %d, snd_cwnd = %d, "
   "total_retrans = %d\n",
  tcpinf.tcpinfo_snd_ssthresh, tcpinf.tcpinfo_snd_cwnd,
  tcpinf.tcpi_total_retrans);
 return;
}

#endif
```

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websocket - WebSocket client library for Python

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Version 2.1, February 1999

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