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1.2 brcm_rstp 0.21

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*/
```

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1.13 hotplug2 0.9 :2.0

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```
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1.20 linux kernel 2.6.22

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1.21 lzma 4.57

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in 7-Zip compression program (www.7-zip.org). LZMA provides high
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1.22 mDNSResponder 107.6

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1.25 ntpclient 345.0

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ntpclient is an NTP (RFC-1305) client for unix-alike computers.
Its functionality is a small subset of xntpd, but IMHO performs
better (or at least has the potential to function better) within
that limited scope. Since it is much smaller than xntpd, it is
also more relevant for embedded computers.

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ntpclient home page: http://doolittle.faludi.com/ntpclient/

To build on Linux, type "make". Solaris and other Unix users will
probably need to adjust the Makefile slightly. It's not complicated.

Usage: ntpclient [options]
options:
-c count stop after count time measurements (default 0 means go forever)
-d print diagnostics (feature can be disabled at compile time)
-h hostname (mandatory) NTP server host, against which to measure system time
-i interval check time every interval seconds (default 600)
-l attempt to lock local clock to server using adjtimex(2)
-p port local NTP client UDP port (default 0 means "any available")
-r replay analysis code based on stdin
-s simple clock set (implies -c 1)

Mortal users can use this program for monitoring, but not clock setting
(with the -s or -l switches). The -l switch has not been well tested.
Simulation (with -r) actually looks halfway decent, so locking should be
OK too, but it needs some tuning.

The test.dat file has 200 lines of sample output. Its first few lines,
with the output column headers that are shown when the -d option is
chosen, are:

```
day   second     elapsed    stall     skew  dispersion  freq
51785 180.386    1398.0     40.3  953773.9    793.5  -1240000
51785 780.382    1358.0     41.3  954329.0    915.5  -1240000
51785 1380.381    1439.0     56.0  954871.3    915.5  -1240000
```

day, second: time of measurement
elapsed: total time from query to response (microseconds)
stall: time the server reports that it sat on the request (microseconds)
skew: difference between local time and server time (microseconds)
dispersion: reported by server, see RFC-1305 (microseconds)
freq: local clock frequency adjustment (Linux only, ppm*65536)

test.dat is suitable for piping into ntpclient -r. I have over 53000
samples (lines) archived for study, that I don't include here.
They are spaced 10 minutes apart, representing over a year of data
logging (not continuous, unfortunately).

envelope is a perl script that I have used for my lock studies.
It's kind of a hack and not worth documenting here.

- Larry Doolittle <larry@doolittle.boa.org>

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Ty Coon, President of Vice

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your company are missing, please contact paul@xelerance.com

Michael Richardson <mcr@xelerance.com> - KLIPS, OCF, IKEv2, testing
Paul Wouters <paul@xelerance.com> - IKEv2, packaging, porting, support
Antony Antony <antony@xelerance.com> - IKEv2, testing
Ken Bantoft <ken@xelerance.com> - DPD, cross compiling, integration
Bart Trojanowski <bart@xelerance.com> - OCF, KLIPS
Herbert Xu <herbert@gondor.apana.org.au> - NETKEY / XFRM, IKEv2, NAT-T
David McCullough <David_Mccullough@securecomputing.com> - KLIPS, OCF
D. Hugh Redelmeier <hugh@mimosa.com> - Bug fixer extraordinaire
Andreas Steffen <andreas.steffen@strongsec.com> - X.509 Certificates
Dr{Who} on Freenode - Porting NAT-T + XAUTH to Openswan 2.x
Jacco de Leeuw <jacco2@dds.nl> - Fixes for MS Interop
Mathieu Lafon <mlafon@arkoon.net> - NAT-T Support
Nate Carlson - Force NAT-T framework, KLIPS for 2.6, etc...
Stephen Bevan <stephen@dino.dnsalias.com> - RFC2409 port selectors
Tuomo Soini <tis@foobar.fi> - NETKEY, KLIPS, _updown scripts and more
Matthew Galgoci <mgalgoci@redhat.com>
Miloslav Trmac <mitr@redhat.com>
Avesh Agarwal <avagarwa@redhat.com>, USE_LIBNSS, SElinux
Hiren Joshi Cyberoam [www.cyberoam.com] - Various fixes
Shingo Yamawaki <Shingo.Yamawaki@jp.sony.com> - Various KLIPS patches
willy@w.ods.org

Openswan is a fork of the FreeS/WAN 2.04 codebase.
Please see the doc/CREDITS.freeswan file from FreeS/WAN for details on
original work.

Xelerance (http://www.xelerance.com) has sponsored the continued development
of Openswan since version 1.0

RedHat (http://www.redhat.com/) sponsored the development of IKEv2, USE_LIBNSS
and various fixes related to NETKEY.

Secure Computing / Snapgear contributed OCF integration, DYNDNS support and many
other KLIPS and userland related fixes.

IXIA Communications (http://www.ixiacom.com/) sponsored the cryptographic
refit in pluto, which permitted Aggressive mode to be incorporated safely.

Sony Japan contributed many fixes to KLIPS, and sponsored IPsec/L2TP development

Siemens Germany sponsored IPsec/L2TP development

Emagister sponsored IPsec/L2TP development

Astaro (http://www.astaro.de/) contributed patches and hardware

HP (http://www.hp.com/) donated hardware

Cyberoam (http://www.cyberoam.com/) contributed various patches

1.28 ppp 2.4.1

1.28.1 Available under license :

```
/*
* ppp_ahdlc.c - STREAMS module for doing PPP asynchronous HDLC.
*
* Re-written by Adi Masputra <adi.masputra@sun.com>, based on
* the original ppp_ahdlc.c
*
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*
* $Id: ppp_ahdlc.c,v 1.16 2000/03/06 19:38:12 masputra Exp $
*/

/*
**********************************************************************
** md5.h -- header file for implementation of MD5                   **
** RSA Data Security, Inc. MD5 Message-Digest Algorithm             **
** Created: 2/17/90 RLR                                            **
** Revised: 12/27/90 SRD,AJ,BSK,JT Reference C version              **
** Revised (for MD5): RLR 4/27/91                                   **
**   -- G modified to have y&~z instead of y&z                      **
**   -- FF, GG, HH modified to add in last register done            **
**   -- Access pattern: round 2 works mod 5, round 3 works mod 3    **
**   -- distinct additive constant for each step                    **
**   -- round 4 added, working mod 7                                **
**********************************************************************
*/

/*
**********************************************************************
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**                                                                  **
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```

** documentation and/or software. **
****
*/

/*
* passprompt.c - pppd plugin to invoke an external PAP password prompter
*
* Copyright 1999 Paul Mackerras, Alan Curry.
*
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* modify it under the terms of the GNU General Public License
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* 2 of the License, or (at your option) any later version.
*/
/*
* Database functions
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*
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*/
This is the README file for ppp-2.4, a package which implements the
Point-to-Point Protocol (PPP) to provide Internet connections over
serial lines.

Introduction.
****

The Point-to-Point Protocol (PPP) provides a standard way to establish
a network connection over a serial link. At present, this package
supports IP and the protocols layered above IP, such as TCP and UDP.
The Linux and Solaris ports of this package have optional support for
IPV6; the Linux port of this package also has support for IPX.

This software consists of two parts:

- Kernel code, which establishes a network interface and passes
packets between the serial port, the kernel networking code and the
PPP daemon (pppd). This code is implemented using STREAMS modules on
Solaris, and as a line discipline under Linux.

- The PPP daemon (pppd), which negotiates with the peer to establish
the link and sets up the ppp network interface. Pppd includes support
for authentication, so you can control which other systems may make a
PPP connection and what IP addresses they may use.

The platforms supported by this package are Linux and Solaris. I have
code for NeXTStep, FreeBSD, SunOS 4.x, SVR4, Tru64 (Digital Unix), AIX
and Ultrix but no active maintainers for these platforms. Code for
all of these except AIX is included in the ppp-2.3.11 release.

Installation.
****

The file SETUP contains general information about setting up your
system for using PPP. There is also a README file for each supported
system, which contains more specific details for installing PPP on
that system. The supported systems, and the corresponding README
files, are:

Linux README.linux
Solaris README.sol2

In each case you start by running the ./configure script. This works
out which operating system you are using and creates the appropriate
makefiles. You then run `make' to compile the user-level code, and
(as root) `make install' to install the user-level programs pppd, chat
and pppstats.

N.B. Since 2.3.0, leaving the permitted IP addresses column of the
pap-secrets or chap-secrets file empty means that no addresses are
permitted. You need to put a "*" in that column to allow the peer to
use any IP address. (This only applies where the peer is
authenticating itself to you, of course.)

What's new in ppp-2.4.4.
****

* Pppd will now run /etc/ppp/ip-pre-up, if it exists, after creating
the ppp interface and configuring its IP addresses but before
bringing it up. This can be used, for example, for adding firewall
rules for the interface.

* Lots of bugs fixed, particularly in the area of demand-dialled and persistent connections.

* The rp-pppoe plugin now accepts any interface name (that isn't an existing pppd option name) without putting "nic-" on the front of it, not just eth*, nas*, tap* and br*.

What was new in ppp-2.4.3.
****

* The configure script now accepts --prefix and --sysconfdir options. These default to /usr/local and /etc. If you want pppd put in /usr/sbin as before, use ./configure --prefix=/usr.

* Doing `make install' no longer puts example configuration files in /etc/ppp. Use `make install-etcppp' if you want that.

* The code has been updated to work with version 0.8.3 of libpcap. Unfortunately the libpcap maintainers removed support for the "inbound" and "outbound" keywords on PPP links, meaning that if you link pppd with libpcap-0.8.3, you can't use those keywords in the active-filter and pass-filter expressions. The support has been reinstated in the CVS version and should be in future libpcap releases. If you need the in/outbound keywords, use a later release than 0.8.3, or get the CVS version from http://www.tcpdump.org.

* There is a new option, child-timeout, which sets the length of time that pppd will wait for child processes (such as the command specified with the pty option) to exit before exiting itself. It defaults to 5 seconds. After the timeout, pppd will send a SIGTERM to any remaining child processes and exit. A value of 0 means no timeout.

* Various bugs have been fixed, including some CBCP packet parsing bugs that could lead to the peer being able to crash pppd if CBCP support is enabled.

* Various fixes and enhancements to the radius and rp-pppoe plugins have been added.

* There is a new winbind plugin, from Andrew Bartlet of the Samba team, which provides the ability to authenticate the peer against an NT domain controller using MS-CHAP or MS-CHAPV2.

* There is a new pppoatm plugin, by various authors, sent in by David Woodhouse.

* The multilink code has been substantially reworked. The first pppd
for a bundle still controls the ppp interface, but it doesn't exit
until all the links in the bundle have terminated. If the first
pppd is signalled to exit, it signals all the other pppds
controlling links in the bundle.

* The TDB code has been updated to the latest version. This should
eliminate the problem that some people have seen where the database
file (/var/run/pppd.tdb) keeps on growing. Unfortunately, however,
the new code uses an incompatible database format. For this reason,
pppd now uses /var/run/pppd2.tdb as the database filename.

What was new in ppp-2.4.2.
****

* The CHAP code has been rewritten. Pppd now has support for MS-CHAP
V1 and V2 authentication, both as server and client. The new CHAP
code is cleaner than the old code and avoids some copyright problems
that existed in the old code.

* MPPE (Microsoft Point-to-Point Encryption) support has been added,
although the current implementation shouldn't be considered
completely secure. (There is no assurance that the current code
won't ever transmit an unencrypted packet.)

* James Carlson's implementation of the Extensible Authentication
Protocol (EAP) has been added.

* Support for the Encryption Control Protocol (ECP) has been added.

* Some new plug-ins have been included:
- A plug-in for kernel-mode PPPoE (PPP over Ethernet)
- A plug-in for supplying the PAP password over a pipe from another
process
- A plug-in for authenticating using a Radius server.

* Updates and bug-fixes for the Solaris port.

* The CBCP (Call Back Control Protocol) code has been updated. There
are new options `remotenumber' and `allow-number'.

* Extra hooks for plugins to use have been added.

* There is now a `maxoctets' option, which causes pppd to terminate
the link once the number of bytes passed on the link exceeds a given
value.

* There are now options to control whether pppd can use the IPCP
IP-Address and IP-Addresses options: `ipcp-no-address' and
`ipcp-no-addresses'.

* Fixed several bugs, including potential buffer overflows in chat.

What was new in ppp-2.4.1.
****

* Pppd can now print out the set of options that are in effect. The
new `dump' option causes pppd to print out the option values after
option parsing is complete. The `dryrun' option causes pppd to
print the options and then exit.

* The option parsing code has been fixed so that options in the
per-tty options file are parsed correctly, and don't override values
from the command line in most cases.

* The plugin option now looks in /usr/lib/pppd/<pppd-version> (for
example, /usr/lib/pppd/2.4.1b1) for shared objects for plugins if
there is no slash in the plugin name.

* When loading a plugin, pppd will now check the version of pppd for
which the plugin was compiled, and refuse to load it if it is
different to pppd's version string. To enable this, the plugin
source needs to #include "pppd.h" and have a line saying:
char pppd_version[] = VERSION;

* There is a bug in zlib, discovered by James Carlson, which can cause
kernel memory corruption if Deflate is used with the lowest setting,
8. As a workaround pppd will now insist on using at least 9.

* Pppd should compile on Solaris and SunOS again.

* Pppd should now set the MTU correctly on demand-dialled interfaces.

What was new in ppp-2.4.0.
****

* Multilink: this package now allows you to combine multiple serial
links into one logical link or `bundle', for increased bandwidth and
reduced latency. This is currently only supported under the
2.4.x and later Linux kernels.

* All the pppd processes running on a system now write information

into a common database. I used the `tdb' code from samba for this.

* New hooks have been added.

For a list of the changes made during the 2.3 series releases of this package, see the Changes-2.3 file.

Compression methods.
****

This package supports two packet compression methods: Deflate and BSD-Compress. Other compression methods which are in common use include Predictor, LZS, and MPPC. These methods are not supported for two reasons - they are patent-encumbered, and they cause some packets to expand slightly, which pppd doesn't currently allow for. BSD-Compress and Deflate (which uses the same algorithm as gzip) don't ever expand packets.

Patents.
****

The BSD-Compress algorithm used for packet compression is the same as that used in the Unix "compress" command. It was apparently covered by U.S. patents 4,814,746 (owned by IBM) and 4,558,302 (owned by Unisys), and corresponding patents in various other countries (but not Australia). Apparently the Unisys patent expired in the US on 20 June 2003, but the IBM patent is still pending.

If these patents are of concern in your situation, you can build the package without including BSD-Compress. To do this, edit net/ppp-comp.h to change the definition of DO_BSD_COMPRESS to 0. The bsd-comp.c files are then no longer needed, so the references to bsd-comp.o may optionally be removed from the Makefiles.

Contacts.
****

The comp.protocols.ppp newsgroup is a useful place to get help if you have trouble getting your ppp connections to work. Please do not send me questions of the form "please help me get connected to my ISP" - I'm sorry, but I simply do not have the time to answer all the questions like this that I get.

If you find bugs in this package, please report them to the maintainer for the port for the operating system you are using:

Linux Paul Mackerras <paulus@samba.org>
Solaris James Carlson <carlson@workingcode.com>

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****

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source files each have their own copyright and permission notice.
Pppd, pppstats and pppdump are under BSD-style notices. Some of the
pppd plugins are GPL'd. Chat is public domain.

Distribution:
****

The primary site for releases of this software is:

 ftp://ftp.samba.org/pub/ppp/

($Id: README,v 1.37 2006/05/29 23:51:29 paulus Exp $)

1.29 radvd 0.9.1

1.29.1 Available under license :

 Authors:
Lars Fenneberg <lf@elemental.net>

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1.30 rstplib 1.1.02

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1.32 syslog-ng 1.6.12

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1.33 tftpd 0.29

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1.34 traceroute 1.4a12

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@(#) $Id: README,v 1.9 2000/09/16 05:32:01 leres Exp $ (LBL)

TRACEROUTE 1.4
Lawrence Berkeley National Laboratory
Network Research Group
traceroute@ee.lbl.gov
ftp://ftp.ee.lbl.gov/traceroute.tar.gz

Traceroute is a system administrators utility to trace the route
ip packets from the current system take in getting to some
destination system. See the comments at the front of the
program for a description of its use.

This program uses raw ip sockets and must be run as root (or installed
setuid to root).

A couple of awk programs to massage the traceroute output are
included. "mean.awk" and "median.awk" compute the mean and median time
to each hop, respectively. I've found that something like

```
traceroute -q 7 foo.somewhere >t
awk -f median.awk t | xgraph
```

can give you a quick picture of the bad spots on a long path (median is
usually a better noise filter than mean).

Problems, bugs, questions, desirable enhancements, source code
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1.35 uClibc 0.9.29

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```

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* conjunction with the program executable.
*/
/*
* regex(3) test harness
*
* build: cc -o testregex testregex.c
* help: testregex --man
* note: REG_* features are detected by #ifdef; if REG_* are enums
* then supply #define REG_foo REG_foo for each enum REG_foo
*
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*
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1.36 udev v113

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1.37 udhcp 0.9.8

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

concluded that weaker conditions might promote sharing better.

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