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## 1.2 brcm\_rstp 0.21

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/\*\*\*\*\*

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## 1.3 bridge-utils 1.0.6

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\* Special thanks to the the Netfilter Core Team.

\* Thanks to Javier de Miguel Rodriguez <jmiguel at talika.eii.us.es>

\* for introducing me to advanced firewalling stuff.

\*

\* --pablo 13/04/2005

\*/

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## 1.13 hotplug2 0.9 :2.0

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```

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## 1.15 ipsec-tools 0.6.5 :9.e15

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```
/*
 * sha2.c
 *
 * Version 1.0.0beta1
 *
 * Written by Aaron D. Gifford <me@aarongifford.com>
```

```

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/\* \$Id: rsalist.h,v 1.2 2004/07/12 20:43:51 ludvigm Exp \$ \*/

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*/
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```
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```

```
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```
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*
* (C) 2002-2006 by Harald Welte <laforge@gnumonks.org>
* (C) 2006 by Pablo Neira Ayuso <pablo@netfilter.org>
*
* Based on some original ideas from Jay Schulist <jschlst@samba.org>
*
* Development of this code funded by Astaro AG (http://www.astaro.com)
*
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*
* 2005-09-14 Pablo Neira Ayuso <pablo@netfilter.org>:
* Define structure nfnlhdr
* Added __be64_to_cpu function
* Use NFA_TYPE macro to get the attribute type
*
* 2006-01-14 Harald Welte <laforge@netfilter.org>:
* introduce nfnl_subsys_handle
*
* 2006-01-15 Pablo Neira Ayuso <pablo@netfilter.org>:
* set missing subsys_id in nfnl_subsys_open
* set missing nfnlh->local.nl_pid in nfnl_open
*
* 2006-01-26 Harald Welte <laforge@netfilter.org>:
* remove bogus nfnlh->local.nl_pid from nfnl_open ;)
* add 16bit attribute functions
*
* 2006-07-03 Pablo Neira Ayuso <pablo@netfilter.org>:
* add iterator API
* add replacements for nfnl_listen and nfnl_talk
* fix error handling
* add assertions
* add documentation
* minor cleanups
*/
```

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# 1.21 libnl 1.1

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# 1.24 mDNSResponder 107.6

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## 1.28 noip 2.1.9

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

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# 1.29 ntpclient 2000\_345 :DUPLICATE

## 1.29.1 Available under license :

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

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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The following people have contributed major resources and/or significant patches to Openswan 2.x. There are many more unlisted contributors. If you feel you or 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

## 1.33 ppp 2.4.1

### 1.33.1 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  
*  
* Copyright (c) 2000 by Sun Microsystems, Inc.  
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```

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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                 **
*****
*/

/*
*****
** Copyright (C) 1990, RSA Data Security, Inc. All rights reserved. **
**                                     **
** License to copy and use this software is granted provided that **
** it is identified as the "RSA Data Security, Inc. MD5 Message- **
** Digest Algorithm" in all material mentioning or referencing this **
** software or this function.                                     **
**                                     **
** License is also granted to make and use derivative works      **
** provided that such works are identified as "derived from the RSA **
** Data Security, Inc. MD5 Message-Digest Algorithm" in all      **
** material mentioning or referencing the derived work.          **
**                                     **
** RSA Data Security, Inc. makes no representations concerning   **
** either the merchantability of this software or the suitability **
** of this software for any particular purpose. It is provided "as **
** is" without express or implied warranty of any kind.          **
**                                     **
** These notices must be retained in any copies of any part of this **
** documentation and/or software.                               **
*****
*/

/*
* passprompt.c - pppd plugin to invoke an external PAP password prompt
*
* Copyright 1999 Paul Mackerras, Alan Curry.
*
* This program is free software; you can redistribute it and/or
* modify it under the terms of the GNU General Public License
* as published by the Free Software Foundation; either version
* 2 of the License, or (at your option) any later version.
*/

/*
* Database functions
* Copyright (C) Andrew Tridgell 1999
*
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* provided that the above copyright notice and this paragraph are
* duplicated in all such forms AND provided that this software or
* any derived work is only used as part of the PPP daemon (pppd)
* and related utilities.

```



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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 `remotenumbers' 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>

#### Copyrights:

\*\*\*\*\*

All of the code can be freely used and redistributed. The individual 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 \$)

# 1.34 ppp 2.4.5

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```

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## 1.37 radvd 0.9.1

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## 1.38 rp-l2tp 0.4

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Handlers

-----

Part of the l2tp code is implemented in the l2tpd program, and part of it is implemented as "handlers". A handler is a shared-object library which is dynamically linked into l2tpd at run-time using the "load-handler" configuration directive.

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## Installation

-----

```
./configure && make  
make install
```

Now read l2tpd(8) and l2tp.conf(5)  
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Simple HTTP Tzo Client

begin: Tue Feb 6 2007

modifications : (see HISTORY file)

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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
```

\*  
 \* Glenn Fowler <gsf@research.att.com>  
 \* AT&T Labs Research  
 \*  
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## 1.48 udev 113

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```
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```

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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