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Any executables containing that work also fall under Section 6,
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1.2 grub 0.97

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1.5 curl 7.18.2

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1.6 glibc 2.7

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*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.9 ncurses 5.7

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1.13 csrp 1.0

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ppp-2.4.5/include/net/if_ppp.h
ppp-2.4.5/pppd/auth.c
ppp-2.4.5/pppd/fsm.c
ppp-2.4.5/pppd/fsm.h
ppp-2.4.5/pppd/ipcp.c
ppp-2.4.5/pppd/ipcp.h
ppp-2.4.5/pppd/ipv6cp.c
ppp-2.4.5/pppd/ipv6cp.h
ppp-2.4.5/pppd/ipxcp.c
ppp-2.4.5/pppd/ipxcp.h
ppp-2.4.5/pppd/lcp.c
ppp-2.4.5/pppd/lcp.h
ppp-2.4.5/pppd/magic.c
ppp-2.4.5/pppd/magic.h
ppp-2.4.5/pppd/main.c
ppp-2.4.5/pppd/options.c
ppp-2.4.5/pppd/pppd.h
ppp-2.4.5/pppd/session.c
ppp-2.4.5/pppd/sys-linux.c
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ppp-2.4.5/pppd/plugins/rp-pppoe/common.c
ppp-2.4.5/pppd/plugins/rp-pppoe/debug.c
ppp-2.4.5/pppd/plugins/rp-pppoe/discovery.c
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ppp-2.4.5/pppd/plugins/radius/config.c
ppp-2.4.5/pppd/plugins/radius/dict.c
ppp-2.4.5/pppd/plugins/radius/includes.h
ppp-2.4.5/pppd/plugins/radius/ip_util.c
ppp-2.4.5/pppd/plugins/radius/lock.c
ppp-2.4.5/pppd/plugins/radius/options.h
ppp-2.4.5/pppd/plugins/radius/pathnames.h
ppp-2.4.5/pppd/plugins/radius/radiusclient.h
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* Linux PPP over L2TP (PPPoL2TP) Socket Implementation (RFC 2661)
*
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* (pppol2tp.c). All version information wrt this file is located in
 * pppol2tp.c
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*/

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/* pppol2tp.c - pppd plugin to implement PPPoL2TP protocol
*   for Linux using kernel pppol2tp support.
*
* Requires kernel pppol2tp driver which is integrated into the kernel
* from 2.6.23 onwards. For earlier kernels, a version can be obtained
* from the OpenL2TP project at
* http://www.sourceforge.net/projects/openl2tp/
*
* Original by Martijn van Oosterhout <kleptog@svana.org>
* Modified by jchapman@katalix.com
*
* Heavily based upon pppoatm.c: original notice follows
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* Updated to ppp-2.4.1
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1.16 libxml2 2.6.26

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1.17 xinetd 2.3.15

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1.20 bzip2 1.0.6

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/

1.21 libtool-libltdl 2.4.2

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1.22 unzip 6.0

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The drop of the reduce method should only affect some test archives,
reducing was never used in any publically distributed Zip program.
For pathologic cases where support for reduced archive entries is

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```
  * MoreFiles
  *
  * A collection of File Manager and related routines
  *
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
  * with significant code contributions by Nitin Ganatra
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```
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  *
  *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
  *
  *  Basic encoding and decoding of Macintosh files to the
  *  MacBinary III spec.
  * ---------------------------------------------------------------------
```

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May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
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His primary concern is that it remain freely distributable, he said."

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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.23 free-type 2.5.3

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1.24 ncurses 5.9

1.24.1 Available under license :

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1.26 runit 2.1.1

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1.27 httpfs2 0.1.4

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* This 'beam me up, Scotty'-branch of httpfs tries to achieve,
* that the mount-point-folder behaves as before.
* But how can you access the original folder after the mount?
* Answer comes from FuseCompress:
* Open the folder before the mount,
* keep it open all the time,
* make a chdir to it
* and always use a relative path.
* It suffices not to chdir in main() and it's unnecessary to
* do it in every function. httpfs_init is the right place.
*
*/
Authors:
Michal Suchanek <hramrach@centrum.cz>
hmb <marionraven@users.sourceforge.net>
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1.30 ini-parser 3.0

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1.31 net-snmp 5.7.3

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clarify this fact.

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

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

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

 Author: Julio Merino <jmmv@NetBSD.org>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

 Author: Julio Merino <jmmv84@gmail.com>

==
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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 version="1.0">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
   <xsl:text>&#10;</xsl:text>
```

```
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
 <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>

</xsl:stylesheet>

<!--

 - Local variables:
 - mode: sgml
```

- End:
-->
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1.35 apache-http-server 2.4.16

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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Mike Belshe (mbelshe@netscape.com)
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*
*/
```

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```
 "macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com
```

For the server\util_md5.c component:

```
/************************************************************************
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
* Copyright  (C)  1995, Board of Trustees of the University of Illinois
*
************************************************************************
 *
* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
*
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*/
/*
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* MD5 crypt() function, which is licenced as follows:
* --
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* --
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For the srclib\apr-util\xml\expat\conftools\install-sh component:

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install - install a program, script, or datafile
This comes from X11R5 (mit/util/scripts/install.sh).
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#

For the test\zb.c component:

/*   ZeusBench V1.01
     ===============

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

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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==========

<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"

type="text/css" href="./style/css/prettify.css"
/>
<script src="./style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="./images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar">
Modules | Directives | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ | Glossary | <a
href="./sitemap.html">Sitemap
Apache HTTP Server Version 2.4

<img title="<-" alt="<-" src="./images/left.gif" />

Apache > HTTP Server > <a
href="http://httpd.apache.org/docs/">Documentation > Version 2.4 <div id="page-
content"> <h1>The Apache License, Version 2.0</h1>

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var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' <\/div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' + comments_identifier;

 (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write(' Comments are disabled for this page at the moment.<\/div>');
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})(window, document);
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1.36 libxml2 2.9.3

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1.37 lasso 2.5.1

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1.39 openssl 1.0.2j

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1.40 sqlite 3.14.2

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1.41 glibc 2.24

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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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Version 2.1, February 1999

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1.52 diffutils 3.3-4.el7

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1.54 ncurses 5.9-13.20130511.el7

1.54.1 Available under license :

Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.55 apr-util 1.6.1

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1.56 libmnl 1.0.4

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1.57 openssl 1.0.2k

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46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
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If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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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) 19yy 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.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
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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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Appendix 2: Special exception
concerning PLPA

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1.63 ncurses 6.0

1.63.1 Available under license :

Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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On Debian systems, the complete text of the GNU General Public License can be found in '/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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-- vile: txtmode file-encoding=utf-8
Upstream source http://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.3 2015/01/03 20:12:01 tom Exp $

1.64 curl 7.61.0

1.65 libwww 5.4.2

1.65.1 Available under license :

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose
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a modified
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1.67 libxml2 2.9.9

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1.69 cracklib 2.9.0-11.el7

1.70 apr 1.5.1

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c,
include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From
strings/apr_snprintf.c:

*
* cvt - IEEE floating point formatting routines.
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*

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*
* $Id$
*/

#include "db_config.h"

#include
 "db_int.h"
#include "dbinc/blob.h"
#include "dbinc/crypto.h"
#include "dbinc/db_page.h"
#include "dbinc/db_swap.h"
#include "dbinc/btree.h"
```

```
#include "dbinc/lock.h"
#include "dbinc/mp.h"
#include "dbinc/partition.h"
#include "dbinc/fop.h"

static void __bam_init_meta __P((DB *, BTMETA *, db_pgno_t, DB_LSN *));

/*
* __bam_open --
* Open a btree.
*
* PUBLIC: int __bam_open __P((DB *, DB_THREAD_INFO *,
* PUBLIC:      DB_TXN *, const char *, db_pgno_t, u_int32_t));
*/
int
__bam_open(dbp, ip, txn, name, base_pgno, flags)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 const char *name;
 db_pgno_t base_pgno;
 u_int32_t flags;
{
 BTREE *t;

 COMPQUIET(name, NULL);
 t = dbp->bt_internal;

 /*
  * We don't permit the user to specify a prefix routine if they didn't
  * also specify a comparison routine, they can't know enough about our
  * comparison routine to get it right.
  */
 if (t->bt_compare == __bam_defcmp && t->bt_prefix != __bam_defpfx)
 {
  __db_errx(dbp->env, DB_STR("1006",
"prefix comparison may not be specified for default comparison routine"));
  return (EINVAL);
 }

 /*
  * Verify that the bt_minkey value specified won't cause the
  * calculation of ovflsize to underflow [#2406] for this pagesize.
  */
 if (B_MINKEY_TO_OVFLSIZE(dbp, t->bt_minkey, dbp->pgsize) >
     B_MINKEY_TO_OVFLSIZE(dbp, DEFMINKEYPAGE, dbp->pgsize)) {
  __db_errx(dbp->env, DB_STR_A("1007",
      "bt_minkey value of %lu too high for page size of %lu",
```

```
    "%lu %lu"), (u_long)t->bt_minkey, (u_long)dbp->pgsize);
 return (EINVAL);
 }

 /* Start up the tree. */
 return (__bam_read_root(dbp, ip, txn, base_pgno, flags));
}

/*
* __bam_metachk --
*
* PUBLIC: int __bam_metachk __P((DB *, const char *, BTMETA *));
*/
int
__bam_metachk(dbp, name, btm)
 DB *dbp;
 const char *name;
 BTMETA *btm;
{
 ENV *env;
 u_int32_t vers;
 int ret;

 env = dbp->env;
 ret = 0;

 /*
  * At this point, all we know
 is that the magic number is for a Btree.
  * Check the version, the database may be out of date.
  */
 vers = btm->dbmeta.version;
 if (F_ISSET(dbp, DB_AM_SWAP))
  M_32_SWAP(vers);
 switch (vers) {
 case 6:
 case 7:
  __db_errx(env, DB_STR_A("1008",
     "%s: btree version %lu requires a version upgrade",
     "%s %lu"), name, (u_long)vers);
  return (DB_OLD_VERSION);
 case 8:
 case 9:
 case 10:
  break;
 default:
  __db_errx(env, DB_STR_A("1009",
     "%s: unsupported btree version: %lu", "%s %lu"),
```

```
    name, (u_long)vers);
 return (EINVAL);
}

/* Swap the page if we need to. */
if (F_ISSET(dbp, DB_AM_SWAP) &&
   (ret = __bam_mswap(env, (PAGE *)btm)) != 0)
 return (ret);

/*
 * Check application info against metadata info, and set info, flags,
 * and type based on metadata info.
 */
if ((ret =
   __db_fchk(env, "DB->open", btm->dbmeta.flags, BTM_MASK)) != 0)
 return (ret);

if (F_ISSET(&btm->dbmeta, BTM_RECNO)) {
 if (dbp->type
== DB_BTREE)
  goto wrong_type;
 dbp->type = DB_RECNO;
 DB_ILLEGAL_METHOD(dbp, DB_OK_RECNO);
} else {
 if (dbp->type == DB_RECNO)
  goto wrong_type;
 dbp->type = DB_BTREE;
 DB_ILLEGAL_METHOD(dbp, DB_OK_BTREE);
}

if (F_ISSET(&btm->dbmeta, BTM_DUP))
 F_SET(dbp, DB_AM_DUP);
else
 if (F_ISSET(dbp, DB_AM_DUP)) {
  __db_errx(env, DB_STR_A("1010",
 "%s: DB_DUP specified to open method but not set in database",
     "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_RECNUM)) {
 if (dbp->type != DB_BTREE)
  goto wrong_type;
 F_SET(dbp, DB_AM_RECNUM);

 if ((ret = __db_fcchk(env,
    "DB->open", dbp->flags, DB_AM_DUP, DB_AM_RECNUM)) != 0)
  return (ret);
```

```
} else
 if (F_ISSET(dbp, DB_AM_RECNUM)) {
  __db_errx(env, DB_STR_A("1011",
    "%s: DB_RECNUM specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_FIXEDLEN)) {
 if (dbp->type != DB_RECNO)
  goto
wrong_type;
 F_SET(dbp, DB_AM_FIXEDLEN);
} else
 if (F_ISSET(dbp, DB_AM_FIXEDLEN)) {
  __db_errx(env, DB_STR_A("1012",
"%s: DB_FIXEDLEN specified to open method but not set in database",
  "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_RENUMBER)) {
 if (dbp->type != DB_RECNO)
  goto wrong_type;
 F_SET(dbp, DB_AM_RENUMBER);
} else
 if (F_ISSET(dbp, DB_AM_RENUMBER)) {
  __db_errx(env, DB_STR_A("1013",
    "%s: DB_RENUMBER specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_SUBDB))
 F_SET(dbp, DB_AM_SUBDB);
else
 if (F_ISSET(dbp, DB_AM_SUBDB)) {
  __db_errx(env, DB_STR_A("1014",
    "%s: multiple databases specified but not supported by file",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_DUPSORT)) {
 if (dbp->dup_compare == NULL)
  dbp->dup_compare = __bam_defcmp;
 F_SET(dbp, DB_AM_DUPSORT);
}
```

```
 else
  if (dbp->dup_compare != NULL) {
   __db_errx(env, DB_STR_A("1015",
  "%s: duplicate sort specified but not supported in database",
       "%s"), name);
   return (EINVAL);
  }

#ifdef HAVE_COMPRESSION
 if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
  F_SET(dbp, DB_AM_COMPRESS);
  if ((BTREE *)dbp->bt_internal != NULL &&
      !DB_IS_COMPRESSED(dbp) &&
      (ret = __bam_set_bt_compress(dbp, NULL, NULL)) != 0)
   return (ret);
 } else {
  if ((BTREE *)dbp->bt_internal != NULL &&
      DB_IS_COMPRESSED(dbp)) {
   __db_errx(env, DB_STR_A("1016",
  "%s: compresssion specified to open method but not set in database",
       "%s"), name);
   return (EINVAL);
  }
 }
#else
 if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
  __db_errx(env, DB_STR_A("1017",
      "%s: compression support has not been compiled in", "%s"),
      name);
  return (EINVAL);
 }
#endif

 /* Set the page size. */
 dbp->pgsize = btm->dbmeta.pagesize;

 dbp->blob_threshold = btm->blob_threshold;
 GET_BLOB_FILE_ID(env,
 btm, dbp->blob_file_id, ret);
 if (ret != 0)
  return (ret);
 GET_BLOB_SDB_ID(env, btm, dbp->blob_sdb_id, ret);
 if (ret != 0)
  return (ret);
 /* Blob databases must be upgraded. */
 if (vers == 9 && (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0)) {
     __db_errx(env, DB_STR_A("1207",
"%s: databases that support blobs must be upgraded.", "%s"),
```

```
    name);
 return (EINVAL);
 }
#ifndef HAVE_64BIT_TYPES
 if (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0) {
  __db_errx(env, DB_STR_A("1199",
    "%s: blobs require 64 integer compiler support.", "%s"),
    name);
 return (EINVAL);
 }
#endif

 /* Copy the file's ID. */
 memcpy(dbp->fileid, btm->dbmeta.uid, DB_FILE_ID_LEN);

 return (0);

wrong_type:
 if (dbp->type == DB_BTREE)
  __db_errx(env, DB_STR("1018",
    "open method type is Btree, database type is Recno"));
 else
  __db_errx(env, DB_STR("1019",
    "open method type is Recno, database type is Btree"));
 return
 (EINVAL);
}

/*
* __bam_read_root --
* Read the root page and check a tree.
*
* PUBLIC: int __bam_read_root __P((DB *,
* PUBLIC:      DB_THREAD_INFO *, DB_TXN *, db_pgno_t, u_int32_t));
*/
int
__bam_read_root(dbp, ip, txn, base_pgno, flags)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 db_pgno_t base_pgno;
 u_int32_t flags;
{
 BTMETA *meta;
 BTREE *t;
 DBC *dbc;
 DB_LOCK metalock;
 DB_MPOOLFILE *mpf;
```

```
int ret, t_ret;

COMPQUIET(flags, 0);

meta = NULL;
t = dbp->bt_internal;
LOCK_INIT(metalock);
mpf = dbp->mpf;
ret = 0;

/* Get a cursor.  */
if ((ret = __db_cursor(dbp, ip, txn, &dbc,
    F_ISSET(dbp, DB_AM_RECOVER) ? DB_RECOVER : 0)) != 0)
 return (ret);

/* Get the metadata page. */
if ((ret =
    __db_lget(dbc, 0, base_pgno, DB_LOCK_READ, 0, &metalock)) != 0)
 goto err;
if ((ret = __memp_fget(mpf, &base_pgno, ip, dbc->txn, 0, &meta)) != 0)
 goto err;

/*
 * If the magic number is set, the tree has been
created.  Correct
 * any fields that may not be right.  Note, all of the local flags
 * were set by DB->open.
 *
 * Otherwise, we'd better be in recovery or abort, in which case the
 * metadata page will be created/initialized elsewhere.
 *
 * Ignore the last_pgno on the metadata page for snapshot transactions:
 * we may be reading an old version of the page, and we've already
 * set last_pgno from the file size.  The only time this would matter
 * is if we don't have ftruncate and there are some free pages at the
 * end of the file: we could end up with holes.
 */
if (meta->dbmeta.magic == DB_BTREEMAGIC) {
 t->bt_minkey = meta->minkey;
 t->re_pad = (int)meta->re_pad;
 t->re_len = meta->re_len;

 t->bt_meta = base_pgno;
 t->bt_root = meta->root;
 t->revision = dbp->mpf->mfp->revision;
 if (PGNO(meta) == PGNO_BASE_MD &&
     !F_ISSET(dbp, DB_AM_RECOVER) &&
     (txn == NULL || !F_ISSET(txn, TXN_SNAPSHOT)) && (ret =
```

```
    __memp_set_last_pgno(mpf,
 meta->dbmeta.last_pgno)) != 0)
  goto err;
 } else {
  DB_ASSERT(dbp->env,
    IS_RECOVERING(dbp->env) || F_ISSET(dbp, DB_AM_RECOVER));
 }

 /*
  * !!!
  * If creating a subdatabase, we've already done an insert when
  * we put the subdatabase's entry into the master database, so
  * our last-page-inserted value is wrongly initialized for the
  * master database, not the subdatabase we're creating.  I'm not
  * sure where the *right* place to clear this value is, it's not
  * intuitively obvious that it belongs here.
  */
 t->bt_lpgno = PGNO_INVALID;

err: /* Put the metadata page back. */
 if (meta != NULL && (t_ret = __memp_fput(mpf,
    ip, meta, dbc->priority)) != 0 && ret == 0)
  ret = t_ret;
 if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
  ret = t_ret;

 if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
  ret = t_ret;
 return (ret);
}

/*
* __bam_init_meta --
*
* Initialize a btree meta-data page.  The following fields may
 need
* to be updated later: last_pgno, root.
*/
static void
__bam_init_meta(dbp, meta, pgno, lsnp)
 DB *dbp;
 BTMETA *meta;
 db_pgno_t pgno;
 DB_LSN *lsnp;
{
 BTREE *t;
#ifdef HAVE_PARTITION
 DB_PARTITION *part;
```

```
#endif
 ENV *env;

 env = dbp->env;
 t = dbp->bt_internal;

 memset(meta, 0, sizeof(BTMETA));
 meta->dbmeta.lsn = *lsnp;
 meta->dbmeta.pgno = pgno;
 meta->dbmeta.magic = DB_BTREEMAGIC;
 meta->dbmeta.version = DB_BTREEVERSION;
 meta->dbmeta.pagesize = dbp->pgsize;
 if (F_ISSET(dbp, DB_AM_CHKSUM))
  FLD_SET(meta->dbmeta.metaflags, DBMETA_CHKSUM);
 if (F_ISSET(dbp, DB_AM_ENCRYPT)) {
  meta->dbmeta.encrypt_alg = env->crypto_handle->alg;
  DB_ASSERT(env, meta->dbmeta.encrypt_alg != 0);
  meta->crypto_magic = meta->dbmeta.magic;
 }
 meta->dbmeta.type = P_BTREEMETA;
 meta->dbmeta.free = PGNO_INVALID;
 meta->dbmeta.last_pgno = pgno;
 if (F_ISSET(dbp, DB_AM_DUP))
  F_SET(&meta->dbmeta, BTM_DUP);
 if (F_ISSET(dbp, DB_AM_FIXEDLEN))
  F_SET(&meta->dbmeta,
 BTM_FIXEDLEN);
 if (F_ISSET(dbp, DB_AM_RECNUM))
  F_SET(&meta->dbmeta, BTM_RECNUM);
 if (F_ISSET(dbp, DB_AM_RENUMBER))
  F_SET(&meta->dbmeta, BTM_RENUMBER);
 if (F_ISSET(dbp, DB_AM_SUBDB))
  F_SET(&meta->dbmeta, BTM_SUBDB);
 if (dbp->dup_compare != NULL)
  F_SET(&meta->dbmeta, BTM_DUPSORT);
#ifdef HAVE_COMPRESSION
 if (DB_IS_COMPRESSED(dbp))
  F_SET(&meta->dbmeta, BTM_COMPRESS);
#endif
 if (dbp->type == DB_RECNO)
  F_SET(&meta->dbmeta, BTM_RECNO);
 memcpy(meta->dbmeta.uid, dbp->fileid, DB_FILE_ID_LEN);

 meta->minkey = t->bt_minkey;
 meta->re_len = t->re_len;
 meta->re_pad = (u_int32_t)t->re_pad;
 meta->blob_threshold = dbp->blob_threshold;
 SET_BLOB_META_FILE_ID(meta, dbp->blob_file_id, BTMETA);
```

```
 SET_BLOB_META_SDB_ID(meta, dbp->blob_sdb_id, BTMETA);

#ifdef HAVE_PARTITION
 if ((part = dbp->p_internal) != NULL) {
  meta->dbmeta.nparts = part->nparts;
  if (F_ISSET(part, PART_CALLBACK))
   FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_CALLBACK);
  if (F_ISSET(part,
 PART_RANGE))
   FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_RANGE);
 }
#endif
}

/*
* __bam_new_file --
* Create the necessary pages to begin a new database file.
*
* This code appears more complex than it is because of the two cases (named
* and unnamed).  The way to read the code is that for each page being created,
* there are three parts: 1) a "get page" chunk (which either uses malloc'd
* memory or calls __memp_fget), 2) the initialization, and 3) the "put page"
* chunk which either does a fop write or an __memp_fput.
*
* PUBLIC: int __bam_new_file __P((DB *,
* PUBLIC:      DB_THREAD_INFO *, DB_TXN *, DB_FH *, const char *));
*/
int
__bam_new_file(dbp, ip, txn, fhp, name)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 DB_FH *fhp;
 const char *name;
{
 BTMETA *meta;
 DBT pdbt;
 DB_LSN lsn;
 DB_MPOOLFILE *mpf;
 DB_PGINFO pginfo;
 ENV *env;
 PAGE *root;
 db_pgno_t pgno;
 int ret, t_ret;
 void *buf;

 env = dbp->env;
 mpf =
```

```
dbp->mpf;
root = NULL;
meta = NULL;
buf = NULL;

if (F_ISSET(dbp, DB_AM_INMEM)) {
 /* Build the meta-data page. */
 pgno = PGNO_BASE_MD;
 if ((ret = __memp_fget(mpf, &pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta)) != 0)
  return (ret);
 LSN_NOT_LOGGED(lsn);
 __bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
 meta->root = 1;
 meta->dbmeta.last_pgno = 1;
 if ((ret =
    __db_log_page(dbp, txn, &lsn, pgno, (PAGE *)meta)) != 0)
  goto err;
 ret = __memp_fput(mpf, ip, meta, dbp->priority);
 meta = NULL;
 if (ret != 0)
  goto err;

 /* Build the root page. */
 pgno = 1;
 if ((ret = __memp_fget(mpf, &pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &root)) != 0)
  goto err;
 P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
    LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
 LSN_NOT_LOGGED(root->lsn);
 if ((ret =
    __db_log_page(dbp, txn, &root->lsn, pgno, root)) != 0)
  goto err;
 ret =
__memp_fput(mpf, ip, root, dbp->priority);
 root = NULL;
 if (ret != 0)
  goto err;
} else {
 memset(&pdbt, 0, sizeof(pdbt));

 /* Build the meta-data page. */
 pginfo.db_pagesize = dbp->pgsize;
 pginfo.flags =
    F_ISSET(dbp, (DB_AM_CHKSUM | DB_AM_ENCRYPT | DB_AM_SWAP));
 pginfo.type = dbp->type;
 pdbt.data = &pginfo;
```

```
  pdbt.size = sizeof(pginfo);
  if (dbp->blob_threshold) {
   if ((ret = __blob_generate_dir_ids(dbp, txn,
       &dbp->blob_file_id)) != 0)
    return (ret);

  }
  if ((ret = __os_calloc(env, 1, dbp->pgsize, &buf)) != 0)
   return (ret);
  meta = (BTMETA *)buf;
  LSN_NOT_LOGGED(lsn);
  __bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
  meta->root = 1;
  meta->dbmeta.last_pgno = 1;
  if ((ret = __db_pgout(
      dbp->dbenv, PGNO_BASE_MD, meta, &pdbt)) != 0)
   goto err;
  if ((ret = __fop_write(env, txn, name, dbp->dirname,
      DB_APP_DATA, fhp,
      dbp->pgsize, 0, 0, buf, dbp->pgsize, 1, F_ISSET(
      dbp, DB_AM_NOT_DURABLE)
 ? DB_LOG_NOT_DURABLE : 0)) != 0)
   goto err;
  meta = NULL;

  /* Build the root page. */
#ifdef DIAGNOSTIC
  memset(buf, CLEAR_BYTE, dbp->pgsize);
#endif
  root = (PAGE *)buf;
  P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
      LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
  LSN_NOT_LOGGED(root->lsn);
  if ((ret =
      __db_pgout(dbp->dbenv, root->pgno, root, &pdbt)) != 0)
   goto err;
  if ((ret =
      __fop_write(env, txn, name, dbp->dirname, DB_APP_DATA,
      fhp, dbp->pgsize, 1, 0, buf, dbp->pgsize, 1, F_ISSET(
      dbp, DB_AM_NOT_DURABLE) ? DB_LOG_NOT_DURABLE : 0)) != 0)
   goto err;
  root = NULL;
  }

err: if (buf != NULL)
  __os_free(env, buf);
 else {
  if (meta != NULL &&
```

```
    (t_ret = __memp_fput(mpf, ip,
    meta, dbp->priority)) != 0 && ret == 0)
  ret = t_ret;
 if (root != NULL &&
    (t_ret = __memp_fput(mpf, ip,
    root, dbp->priority)) != 0 && ret == 0)
  ret = t_ret;
 }
 return (ret);
}

/*
 * __bam_new_subdb --
* Create a metadata page and a root page for a new btree.
*
* PUBLIC: int __bam_new_subdb __P((DB *, DB *, DB_THREAD_INFO *, DB_TXN *));
*/
int
__bam_new_subdb(mdbp, dbp, ip, txn)
 DB *mdbp, *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
{
 BTMETA *meta;
 DBC *dbc;
 DB_LOCK metalock;
 DB_LSN lsn;
 DB_MPOOLFILE *mpf;
 ENV *env;
 PAGE *root;
 int ret, t_ret;

 env = mdbp->env;
 mpf = mdbp->mpf;
 dbc = NULL;
 meta = NULL;
 root = NULL;

 if (dbp->blob_threshold) {
  if ((ret = __blob_generate_dir_ids(dbp, txn,
     &dbp->blob_sdb_id)) != 0)
   return (ret);
 }

 if ((ret = __db_cursor(mdbp, ip, txn,
    &dbc, CDB_LOCKING(env) ?  DB_WRITECURSOR : 0)) != 0)
  return (ret);
```

```
 /* Get, and optionally create the metadata page. */
 if ((ret = __db_lget(dbc,
    0, dbp->meta_pgno, DB_LOCK_WRITE, 0, &metalock)) != 0)
  goto err;
 if ((ret = __memp_fget(mpf, &dbp->meta_pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta))
 != 0)
  goto err;

 /* Build meta-data page. */
 lsn = meta->dbmeta.lsn;
 __bam_init_meta(dbp, meta, dbp->meta_pgno, &lsn);
 if ((ret = __db_log_page(mdbp,
    txn, &meta->dbmeta.lsn, dbp->meta_pgno, (PAGE *)meta)) != 0)
  goto err;

 /* Create and initialize a root page. */
 if ((ret = __db_new(dbc,
    dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE, NULL, &root)) != 0)
  goto err;
 root->level = LEAFLEVEL;

 if (DBENV_LOGGING(env) &&
#if !defined(DEBUG_WOP)
    txn != NULL &&
#endif

    (ret = __bam_root_log(mdbp, txn, &meta->dbmeta.lsn, 0,
    meta->dbmeta.pgno, root->pgno, &meta->dbmeta.lsn)) != 0)
  goto err;

 meta->root = root->pgno;
 if ((ret =
    __db_log_page(mdbp, txn, &root->lsn, root->pgno, root)) != 0)
  goto err;

 /* Release the metadata and root pages. */
 if ((ret = __memp_fput(mpf, ip, meta, dbc->priority)) != 0)
  goto err;
 meta = NULL;
 if ((ret = __memp_fput(mpf, ip, root, dbc->priority)) != 0)
  goto err;
 root = NULL;
err:
 if
 (meta != NULL)
  if ((t_ret = __memp_fput(mpf, ip,
  meta, dbc->priority)) != 0 && ret == 0)
```

```
  ret = t_ret;
 if (root != NULL)
  if ((t_ret = __memp_fput(mpf, ip,
  root, dbc->priority)) != 0 && ret == 0)
   ret = t_ret;
 if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
  ret = t_ret;
 if (dbc != NULL)
  if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
   ret = t_ret;
 return (ret);
}
```

1.72 bind 9.11.4

1.72.1 Available under license :

Redistribution terms Automated Testing Framework

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clarify this fact.

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

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

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

 Author: Julio Merino <jmmv@NetBSD.org>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

 Author: Julio Merino <jmmv84@gmail.com>

==========

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

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 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
   <xsl:text>
</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '
')"/>
   <xsl:if test="translate($rest, '	 ', '')">

     <xsl:call-template name="isc.copyright.format">
       <xsl:with-param name="text" select="$rest"/>
     </xsl:call-template>

```
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
   <xsl:with-param name="text">
     <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
   <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
   </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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1.73 patch 2.7.6

1.74 kerberos 1.17

1.75 bzip2 1.0.8

1.76 mbed-tls 2.16.2

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1.78 python-setuptools 41.2.0

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1.79 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.80 dmidecode 3.5

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```
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1.84 tcl 8.3.0

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>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

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1.91 kerberos 1.16

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lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
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lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
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lib/libgss/gssd_pname_to_uid.c
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  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
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      COLLAPSE_INDEX: false,
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GSSAPI mechglue in GSSAPI-SPNEGO in
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<pre>lib<span
class="o">/gssapi/<span
class="n">generic/gssapi_err_generic<span
class="o">.et
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_accept_sec_context.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_acquire_cred.c
lib/<span
class="n">gssapi/mechglue<span
class="o">/g_canon_name.c
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class="o">/mechglue/<span
class="n">g_compare_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_context_time.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_delete_sec_context.c
lib/<span
class="n">gssapi/mechglue<span
class="o">/g_dsp_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_dsp_status.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_dup_name.c
lib/gssapi<span
class="o">/mechglue/<span

class="n">g_exp_sec_context.c
lib/gssapi<span
class="o">/<span
class="n">mechglue/g_export_name<span
class="o">.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_glue.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_imp_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_imp_sec_context.c
lib/gssapi<span
class="o">/mechglue<span
class="o">/g_init_sec_context.<span
class="n">c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_initialize.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_inquire_context.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_inquire_cred.c
lib/gssapi<span
class="o">/mechglue<span
class="o">/g_inquire_names.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_process_context.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_buffer.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_cred.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_name<span
class="o">.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_oid_set.c
lib/gssapi<span
class="o">/mechglue/<span

class="n">g_seal.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_sign.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_store_cred.<span
class="n">c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_unseal.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_userok.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_utils.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_verify.c
lib<span
class="o">/gssapi/<span
class="n">mechglue/gssd_pname_to_uid<span
class="o">.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">mglueP.h
lib/gssapi<span
class="o">/mechglue/<span
class="n">oid_ops.c
lib/gssapi<span
class="o">/spnego/<span
class="n">gssapiP_spnego.h
lib/<span
class="n">gssapi/spnego<span
class="o">/spnego_mech.c
</pre>

and the initial implementation of incremental propagation, including
the following new or changed files:
<pre>include<span
class="o">/iprop_hdr.h
kadmin/server<span
class="o">/ipropd_svc.c
lib/kdb/<span
class="n">iprop.x
lib/kdb/<span
class="n">kdb_convert<span

class="o">.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
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.. parsed-literal::

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c

lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c

lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation,
including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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import sys
import re

def warn(fname, ln, msg):
  print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
  return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

```
# Check a comment for boilerplate violations.  Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
  text_seen = False
  is_license = False
  for line in comment:
    if not is_license and indicates_license(line):
      is_license = True
      if text_seen:
        warn(fname, ln, 'License begins after first
 line of comment')
      elif code_seen:
        warn(fname, ln, 'License after code')
      elif nonlicense_seen:
        warn(fname, ln, 'License after non-license comments')
      break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
      text_seen = True
  return is_license

def check_file(lines, fname):
  # Skip emacs mode line if present.
  ln = 0
  if '-*- mode: c;' in lines[ln]:
    ln += 1

  # Check filename comment if present.
  m = re.match(r'/\* ([^ ]*)( - .*)? \*/', lines[ln])
  if m:
    if m.group(1) != fname:
      warn(fname, ln, 'Wrong filename in comment')
    ln += 1

  # Scan for license statements.
  in_comment = False
  code_seen = False
  nonlicense_seen = False
  for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
      line = re.sub(r'/\*.*?\*/',
 '', line)
    line = line.strip()

    if not in_comment and '/*' in line:
      (line, sep, comment_part) = line.partition('/*')
```

```
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
            is_license = check_comment(comment, fname, comment_starts_at,
                                       code_seen, nonlicense_seen)
            nonlicense_seen = nonlicense_seen or not is_license
            in_comment = False
        elif line.strip() != '':
            code_seen = True

        ln += 1

for fname in sys.argv[1:]:
  if fname.startswith('./'):
     fname = fname[2:]
  f = open(fname)
  lines = f.readlines()
  f.close()
  check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*

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1.93 libdaemon 0.14

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1.95 curl 7.43.0

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1.96 lua 5.3.3

1.97 sqlite 3.7.7.1

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1.101 curl 7.54.0

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

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using their own licenses. Even libcurl itself contains code that may cause

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1.102 zeromq 4.2.3

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1.103 tcl 8.5.8

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>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

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1.104 openssh 7.5

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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_
```

```
typedef struct pollfd {
 int  fd;
 short events;
 short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN  0x0001
#define POLLOUT  0x0004
#define POLLERR  0x0008
#define POLLHUP  0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI  0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM  (-1) /* not
 standard */

int   poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/*
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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)  ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int,
 int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
/*
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*/
```

```
#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

1.105 util-linux 2.23.2-26.el7

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1.106 libgpg-error 1.12-3.el7

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program.
It is safest to
attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the
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<signature of Ty Coon>, 1 April 1989
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That's all there is to it!

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1.109 file 5.32

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1.110 net-tools 2.10

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1.111 libffi 3.2.1

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1.112 attr 2.4.47

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5. A program that contains no derivative of any portion of the

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

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

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

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

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

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

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

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1.117 libpcap 0.9.5

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1.118 gsoap 2.7

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1.119 popt 1.16

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<one line to give the program's name and a brief idea of what it does.>
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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

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1.122 libconfig 1.7.2

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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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Otherwise, if the work is a derivative of the Library, you may
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work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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That's all there is to it!

@c @bye

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1.126 fbset 2.1

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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.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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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consider it more useful to permit linking proprietary applications with the
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Public License instead of this License.

1.128 cracklib 2.9.1

1.128.1 Available under license :

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"work that uses the
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Also add information on how to contact you by electronic and paper mail.

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

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...
> University of Missouri - Rolla Phone: (573) 341-6679
> UMR Information Technology Fax: (573) 341-4216
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...
> > Subject: [Cracklib-devel] cracklib license
> >=20
> > looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
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> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.

>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From

alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk

>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.129 less 466

1.129.1 Available under license :

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Version 3, 29 June 2007

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1.130 libcheck 0.9.14

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting
the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.
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 "Source code" for a work means the preferred form of the work for
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the terms of this License.

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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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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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it with the complete
corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
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creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work

that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a)
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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1.132 bc 1.07

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ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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available free
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c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution
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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is

available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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1.133 dc 1.4

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1.135 libteam 1.17-7.el7_2

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1.136 sqlite 3.0.0

1.136.1 Available under license :

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1.137 linux-kernel 4.9.170

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QLogic Linux qlcnic NIC Driver

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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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Because
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FlashPoint Driver Developer's Kit

Version 1.0

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1.138 curl 7.56.1

1.138.1 Available under license :

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==========

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1.139 rsyslog 8.1908.0

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1.140 linux-kernel 3.4.113

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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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{
 return (strcmp(license, "GPL") == 0
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  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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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.)

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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  http://code.google.com/p/libdnet/
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  Distributed with Nmap in the libpcre subdirectory.
  http://www.pcre.org/
 o liblua: Lua programming language. Lua is the implementation language
  of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow
  running Lua programs inside Nmap. Distributed with Nmap in the liblua
  subdirectory. liblua can be omitted by configuring with the
  --without-liblua configuration directive.
  http://www.lua.org/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection
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o libsvn. The Subversion library, used by the updater program
  nmap-update. http://subversion.apache.org/
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Written
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1.152 dosfs-tools 4.1

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1.153 gettext libc version

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Program (independent of having been
 made by running the Program).
Whether that is true depends on what the Program does.

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stating
 that you changed the files and the date of any change.

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Thus, it is not the intent of this section to claim rights or contest
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Accompany it with the complete corresponding machine-readable
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1 and 2 above on a medium customarily used for software interchange; or,

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Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

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Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
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received the program in object code or executable form with such
an offer, in accord with Subsection b above.)
@end enumerate

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
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@end enumerate

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

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name
and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}

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
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@end smallexample

Also add information on how to contact you by electronic and paper mail.

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

@smallexample
Gnomovision version
 69, Copyright (C) @var{year} @var{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.
@end smallexample

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the program, if
necessary. Here is a sample; alter the names:

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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Version 2.1, February 1999

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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

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

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above, provided that you also meet all of these conditions:

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

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

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

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

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

These requirements apply to the modified work as a whole. If
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can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a

work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever

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

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

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

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

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

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

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I would like to thank the following people (in alphabetical order):

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If I've missed anyone, it's due to oversight. Drop me a line and I'll
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1.161 lm-sensors 3.4.0

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* Mark M. Hoffman
 Many improvements to the libsensors configuration file scanner.
* Jean Delvare
 New libsensors API, and migration of sensors and sensord thereto.
 Many optimizations in libsensors and sensors.
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 Support for multiple configuration files in libsensors.

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software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated

interface definition files, plus the scripts used to control
compilation and installation of the library.

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

1. You may copy and distribute verbatim copies of the Library's
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all the notices that refer to this License and to the absence of any
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Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

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

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

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

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

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding

machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

normally
distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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

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Version 2, June 1991

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[This is the first released version of the library GPL. It is

numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library
and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library"
and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends
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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution
medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not

include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.165 netbsd-resolv 1.0-r2

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1.176 libcipmi 1.0

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1.177 json-c 1.7.10

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1.178 uuid 1.1

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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.

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

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) 19yy 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.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
 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
```

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public
License instead of this License.

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a
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semblance of artistic control over the development of the package,
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Definitions:

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"You" is you, if you're thinking about copying or distributing
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It also means that recipients of the item may redistribute it
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3. You may otherwise modify your copy of this Package in any way, provided
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b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict

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d) make other distribution arrangements with the Copyright Holder.

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a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

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product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

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7. C subroutines

(or comparably compiled subroutines in other
languages) supplied by you and linked into this Package in order to
emulate subroutines and variables of the language defined by this
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The End

1.181 netperf 2.6.0

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1.182 gnutls 3.3.30

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of
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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Section 6 states terms for distribution of such executables.

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whether or not they are linked directly with the Library itself.

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

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

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

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<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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necessary. Here is a sample; alter the names:

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
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##
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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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procedure and CyberLogin is no longer used.)

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 for merging the nxt2002 and nxt2004 modules into a
 single nxt200x frontend driver.

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization

created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may
copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
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you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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) 19yy 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.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
 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
```

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public
 License instead of this License.

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a
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b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

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form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

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that you do not advertise this Package as a
product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

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languages) supplied by you and linked into this Package in order to
emulate subroutines and variables of the language defined by this
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The End

1.189 libnl3 1.1.4-3.el7

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution
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collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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subsequent copies and derivative works made from that copy.

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

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

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

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable
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with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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that the separate distribution of the work based on
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b) Give prominent notice with the combined library of the fact
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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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L. Peter Deutsch
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****** UTF8 Validation logic (utf8_validation.hpp) ******
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25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance

44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
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59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

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written offer, valid for at least three years and valid
for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
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product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same
way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
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e) Convey the object code using peer-to-peer transmission, provided
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When a "work that uses the Library" uses material from a header file

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b) Use a suitable shared library mechanism for linking with the

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of https://dscm.esl.cisco.com/git/153/comp-15301477
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15301477
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77ee697ca7602fbf6d6606595ef5f11b850322b7 branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f15c2fd12e6e400435d10ecb76d70be3428b18e branch 'skywalker_rel_8_2_0_sk_0_148_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
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'vinci_cx_next_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
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fa261b720e7df3d175fc8eac2da3a969b0f65eb9 branch 'zulu_trash1' of https://dscm.esl.cisco.com/git/153/comp-15301477
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[core]
repositoryformatversion = 0
filemode = true
bare = false
logallrefupdates = true
[remote "origin"]
url = https://dscm.esl.cisco.com/git/153/comp-15301478.git
fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]
remote = origin
merge = refs/heads/skywalker_com
0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301478.git
72f82a676e4e8a7e8afdf779f565129030a3b2d3
0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld
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06bd77b5d7b50a7afdce738674ec142c655701bf 8c2f854e2708bbf9c727a1c92ef848dec8793c10 nxbld
<nxbld@cisco.com> 1571052911 -0700 checkout: moving from skywalker_com to skywalker_com/37
caaa75e0b83f705095b8e9759a6c2468a1e07e98

72f82a676e4e8a7e8afdf779f565129030a3b2d3 'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-15304913
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0000000000000000000000000000000000000000 caaa75e0b83f705095b8e9759a6c2468a1e07e98 nxbld <nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15304913.git
caaa75e0b83f705095b8e9759a6c2468a1e07e98 333f8b22c5dad178e0e0fc0db61cc88b252a5a4c nxbld <nxbld@cisco.com> 1571052912 -0700 checkout: moving from skywalker_com to davis_com/2
ref: refs/remotes/origin/h_cn12k
06bd77b5d7b50a7afdce738674ec142c655701bf

1.198 libssh2 0.18

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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library

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Once this change is made in a given copy, it is irreversible for
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subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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a) Accompany the combined library with a copy of the same work based on the Library, uncombined
with any other library
facilities. This must be distributed under the terms of the

Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.

States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the

work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
it, and giving a relevant date.

b) The work must carry prominent notices stating that it is
released under this License and any conditions added under section
7. This requirement modifies the requirement in section
4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this
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License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts,
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Appropriate Legal Notices; however, if the Program has interactive
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work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no

charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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received the object code with such an offer, in accord with subsection
6b.

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Convey the object code by offering access from a designated place
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Regardless of what server hosts the Corresponding Source, you remain
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satisfy these requirements.

@item
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Version 3.1, 31 March 2009

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

HISTORY -

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

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

Some other contributors:

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

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

Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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==========

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@enumerate a
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1.212 libconfig 1.5

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@c \input texinfo.tex @c -*-texinfo-*-
@c
@c %**start of header

@c All text is ignored before the setfilename.
@setfilename LGPL.info

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We call this license the ``Lesser'' General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same
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former contains code
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means either the Library or any derivative work under copyright law:
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verbatim or with modifications and/or translated straightforwardly into
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``Source code'' for a work means the preferred form of the work for making
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@sp
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You must cause the files modified to carry prominent notices stating that you changed the
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operates, and performs whatever part of its purpose remains meaningful.

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

@end enumerate

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

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

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

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

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As an exception to the Sections above, you may also combine or link a
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during execution displays copyright notices, you must include the
copyright notice for the Library among
 them, as well as a reference
directing the user to the copy of this License. Also, you must do one
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Accompany the work with the complete corresponding machine-readable
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work (which must be distributed under Sections 1 and 2 above); and, if
the work is an executable linked with the Library, with the complete
machine-readable ``work that uses the Library'', as object code and/or
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Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on
 the user's computer system, rather than
copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if the user installs
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Accompany the work with a written offer, valid for at least three years,
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@enumerate
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@page
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1.216 pciutils 3.7.0

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c

lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the
following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.222 openssl 1.0.1e-51.el7_2.7

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1.223 libusb 1.0.15-4.el7

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

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

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

Library will still fall under Section 6.)

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

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

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

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

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

For an executable, the required form of the "work that uses the

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

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1.226 libnl3 3.2.21-10.el7

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

==========

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

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

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 version="1.0">

 <xsl:template name="isc.copyright.format">

```
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
 <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>

</xsl:stylesheet>
```

<!--

 - Local variables:
 - mode: sgml
 - End:
-->
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1.233 open-ldap 2.4.57

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1.234 libcap-ng 0.8.2

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"work that uses the
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1.236 boost 1.75.0

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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:toc:
:toc-title:
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necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by
including `<boost/mp11/mpl_list.hpp>`, and for `std::tuple`
by including `<boost/mp11/mpl_tuple.hpp>`. This may be required

because some libraries, such as Boost.Fusion, contain their own MPL
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

1.242 dosfs-tools 4.2

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* Bob Schlaermann
 Dynamic chip feature detection (a.k.a. generic chip support) in
 libsensors and sensors.
* Mark M. Hoffman
 Many improvements to the libsensors configuration file scanner.
* Jean Delvare
 New libsensors API, and migration of sensors and sensord thereto.
 Many optimizations in libsensors and sensors.
 Configuration file converter.
 Rewrite of sensors-detect.
 Support for multiple configuration files in libsensors.

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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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^L

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to most
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your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

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

That's all there is to it!

1.258 sqlite 3.35.0

1.258.1 Available under license :

No license file was found, but licenses were detected in source scan.

<p>Yes. SQLite is in the public domain. No claim of ownership is made

Found in path(s):
* /opt/cola/permits/1151440481_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/www/faq.tcl
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/1151440481_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/art/SQLite.eps:
binary file matches

Found in path(s):
* /bin/grep
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public domain.

Found in path(s):

* /opt/cola/permits/1151440481_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/www/changes.tcl
No license file was found, but licenses were detected in source scan.

```
%define name sqlite
%define version SQLITE_VERSION
%define release 1

Name: %{name}
Summary: SQLite is a C library that implements an embeddable SQL database engine
Version: %{version}
Release: %{release}
Source: %{name}-%{version}.tar.gz
Group: System/Libraries
URL: http://www.hwaci.com/sw/sqlite/
License: Public Domain
BuildRoot: %{_tmppath}/%{name}-%{version}-root

%description
SQLite is a C library that implements an embeddable SQL database engine.
Programs that link with the SQLite library can have SQL database access
without running a separate RDBMS process. The distribution comes with a
standalone command-line access program (sqlite) that can be used to
administer an SQLite database and which serves as an example of how to
use the SQLite library.

%package -n %{name}-devel
Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %{name} = %{version}-%{release}

%description
 -n %{name}-devel
The sqlite-devel package contains the header files and libraries needed
to develop programs that use the sqlite database library.

%prep
%setup -q -n %{name}

%build
CFLAGS="%optflags -DNDEBUG=1" CXXFLAGS="%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}

make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix}
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
```

```
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}

%clean
rm -fr $RPM_BUILD_ROOT

%files
%defattr(-, root, root)
%{_libdir}/*.so*
%{_bindir}/*

%files -n %{name}-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite.pc
%{_libdir}/*.a
%{_libdir}/*.la
%{_includedir}/*
%doc doc/*
```

Found in path(s):
* /opt/cola/permits/1151440481_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/spec.template
No license file was found, but licenses were detected in source scan.

```
/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest.  This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

Found in path(s):
* /opt/cola/permits/1151440481_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/src/md5.c
No license file was found, but licenses were detected in source scan.

```
/* The IncrKey opcode is only applied to keys generated by
 ** MakeKey or MakeIdxKey and the results of those operands
 ** are always dynamic strings or zShort[] strings.  So we
 ** are always free to modify the string in place.
```

```
 */
```

Found in path(s):
* /opt/cola/permits/1151440481_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/src/vdbe.c
No license file was found, but licenses were detected in source scan.

```
# 2001 September 15
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#***********************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this file is testing built-in functions.
#
# $Id: func.test,v 1.16.2.2 2004/07/18 21:14:05 drh Exp $

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
 execsql {CREATE TABLE tbl1(t1 text)}
 foreach word {this program is free software} {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
 execsql {
    CREATE TABLE t2(a);

   INSERT INTO t2 VALUES(1);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(345);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(67890);
    SELECT * FROM t2;
 }
} {1 {} 345 {} 67890}

# Check out the length() function
#
```

```
do_test func-1.0 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
 set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
 set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
 execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
        ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
 execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
}
 {fr is pr so th}
do_test func-2.1 {
 execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
 execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
 execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
 execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
 execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
 execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
 execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
 execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
```

```
} {this software free program is}
do_test func-2.9 {
 execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
 execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities and
# the
 UTF-8 encoding is turned on in the SQLite library.
#
if {[sqlite -encoding]=="UTF-8" && "\u1234"!="u1234"} {

# Put some UTF-8 characters in the database
#
do_test func-3.0 {
 execsql {DELETE FROM tbl1}
 foreach word "contains UTF-8 characters hi\u1234ho" {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
 execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
 execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"
do_test func-3.5 {
 execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"
do_test func-3.6 {
 execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
 execsql {SELECT
 substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
 execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
```

```
do_test func-3.9 {
 execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
 execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain i\u1234h"
do_test func-3.99 {
 execsql {DELETE FROM tbl1}
 foreach word {this program is free software} {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End [sqlite -encoding]==UTF-8 and \u1234!=u1234

# Test the abs() and round() functions.
#
do_test func-4.1 {
 execsql {
   CREATE TABLE t1(a,b,c);
   INSERT INTO t1 VALUES(1,2,3);
   INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
   INSERT INTO t1 VALUES(3,-2,-5);
 }
 catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
do_test func-4.2 {
 catchsql {SELECT abs() FROM t1}
} {1 {wrong number
 of arguments to function abs()}}
do_test func-4.3 {
 catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 1.2345678901234 2}}
do_test func-4.4 {
 catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 12345.67890 5}}
do_test func-4.4.1 {
 execsql {SELECT abs(a) FROM t2}
} {1 {} 345 {} 67890}
do_test func-4.4.2 {
 execsql {SELECT abs(t1) FROM tbl1}
} {this program is free software}

do_test func-4.5 {
 catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
```

```
 catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 {-2.00 1.23 2.00}}
do_test func-4.7 {
 catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2 1 -2}}
do_test func-4.8 {
 catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3 -12346 -5}}
do_test func-4.9 {
 catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 {3.0 -12345.68 -5.000}}
do_test func-4.10 {
 catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.000y}}
do_test func-4.11
 {
 catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
 execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.00 nil 345.00 nil 67890.00}
do_test func-4.13 {
 execsql {SELECT round(t1,2) FROM tbl1}
} {0.00 0.00 0.00 0.00 0.00}

# Test the upper() and lower() functions
#
do_test func-5.1 {
 execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
 execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
 execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
do_test func-5.4 {
 catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
do_test func-5.5 {
 catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
 execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
```

```
do_test
 func-6.2 {
 execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
 execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
 execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
 execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}


# Test the last_insert_rowid() function
#
do_test func-7.1 {
 execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
do_test func-8.1 {
 execsql {
   SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
 }
} {68236 3 22745.33 1 67890 5}
do_test func-8.2 {
 execsql {
   SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
do_test func-8.3 {
 execsql {
   CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
   SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
 }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
do_test
 func-8.4 {
 execsql {
   SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}

# How do you test the random() function in a meaningful, deterministic way?
#
```

```
do_test func-9.1 {
 execsql {
   SELECT random() is not null;
 }
} {1}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
db close
set ::DB [sqlite db test.db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
 catchsql {
   SELECT testfunc(NULL,NULL);
 }
} {1 {first argument to test function may not be NULL}}
do_test func-10.2 {
 execsql {
   SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234
   );
 }
} {1234}
do_test func-10.3 {
 execsql {
   SELECT
 testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL
   );
 }
} {{}}
do_test func-10.4 {
 execsql {
   SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double', 1.234
   );
 }
} {1.234}
do_test func-10.5 {
 execsql {
   SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
```

```
   'int', 1234,
   'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
   'string', NULL,
   'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
   'double', 1.234,
   'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
   'int', 1234,
   'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
   'string', NULL,
   'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
   'double', 1.234
  );
 }
} {1.234}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
 execsql {

   SELECT sqlite_version(*);
 }
} [sqlite -version]

finish_test
```

Found in path(s):
* /opt/cola/permits/1151440481_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/test/func.test
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```
/*
** The "printf" code that follows dates from the 1980's.  It is in
** the public domain.  The original comments are included here for
** completeness.  They are very out-of-date but might be useful as
** an historical reference.  Most of the "enhancements" have been backed
** out so that the functionality is now the same as standard printf().
**
**************************************************************************
**
** The following modules is an enhanced replacement for the "printf" subroutines
** found in the standard C library.  The following enhancements are
** supported:
**
**      +  Additional functions.  The standard set of "printf" functions
**         includes printf, fprintf, sprintf, vprintf, vfprintf, and
**         vsprintf.  This module adds the following:
**
**           *  snprintf -- Works like sprintf, but has an extra argument
```

```
**                    which is the size of the buffer written
 to.
**
**         *  mprintf --  Similar to sprintf.  Writes output to memory
**                    obtained from malloc.
**
**         *  xprintf --  Calls a function to dispose of output.
**
**         *  nprintf --  No output, but returns the number of characters
**                    that would have been output by printf.
**
**         *  A v- version (ex: vsnprintf) of every function is also
**            supplied.
**
**      +  A few extensions to the formatting notation are supported:
**
**         *  The "=" flag (similar to "-") causes the output to be
**            be centered in the appropriately sized field.
**
**         *  The %b field outputs an integer in binary notation.
**
**         *  The %c field now accepts a precision.  The character output
**            is repeated by the number of times the precision specifies.
**
**         *  The %' field works like %c, but takes as its character the
**            next character of the
 format string, instead of the next
**            argument.  For example,  printf("%.78'-")  prints 78 minus
**            signs, the same as  printf("%.78c",'-').
**
**      +  When compiled using GCC on a SPARC, this version of printf is
**         faster than the library printf for SUN OS 4.1.
**
**      +  All functions are fully reentrant.
**
*/
```

Found in path(s):
* /opt/cola/permits/1151440481_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/src/printf.c
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Found in path(s):
* /opt/cola/permits/1151440481_1663906961.0080585/0/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/www/index.tcl

1.259 bridgeutils 1.7.1

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1.260 cjson 3.6-r0

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1.261 berkeley-db 5.3.28

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1.263 pam 1.1.8-12.el7_1.1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes

2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2	2012	PSF	yes

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1.267 ply 3.11

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PLY (Python Lex-Yacc) Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex
and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY
  to be similar.

- PLY provides *very* extensive error reporting and diagnostic
  information to assist in parser construction. The original
  implementation was developed for instructional purposes. As
  a result, the system tries to identify the most common types
  of errors made by novice users.

- PLY provides full support for empty productions, error recovery,

precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
better suited to large grammars, and which has a number of nice
properties when dealing with syntax errors and other parsing problems.
Currently, PLY builds its parsing tables using the LALR(1)
algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers.
This greatly simplifies the task of parser construction since it reduces
the number of files and eliminates the need to run a separate lex/yacc
tool before running your program.

- PLY can be used to build parsers for "real" programming languages.
Although it is not ultra-fast due to its Python implementation,
PLY can be used to parse grammars consisting of several hundred
rules (as might be found for a language like C). The lexer and LR
parser are also reasonably efficient when parsing typically
sized programs. People have used PLY to build parsers for
C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained
within the 'ply' directory which may also be used as a Python package.
To use PLY, simply copy the 'ply' directory to your project and import
lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py
individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install
ply using distutils.

The file doc/ply.html contains complete documentation on how to use
the system.

The example directory contains several different examples including a
PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============
PLY requires the use of Python 2.6 or greater. However, you should
use the latest Python release if possible. It should work on just
about any platform. PLY has been tested with both CPython and Jython.
It also seems to work with IronPython.

Resources
=========
More information about PLY can be obtained on the PLY webpage at:

    http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent
book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and
Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown
may also be useful.

The GitHub page for PLY can be found at:

    https://github.com/dabeaz/ply

An old and
relatively inactive discussion group for PLY is found at:

    http://groups.google.com/group/ply-hack

Acknowledgments
===============
A special thanks is in order for all of the students in CS326 who
suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs
and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards
compatibility with Python 2.6 is still preserved. PLY provides dual
Python 2/3 compatibility by restricting its implementation to a common
subset of basic language features. You should not convert PLY using
2to3--it is not necessary and may in fact break the implementation.

Example

=======

Here is a simple example showing a PLY implementation
 of a calculator
with variables.

```
  # -----------------------------------------------------------------------------
  # calc.py
  #
  # A simple calculator with variables.
  # -----------------------------------------------------------------------------

  tokens = (
     'NAME','NUMBER',
     'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
     'LPAREN','RPAREN',
     )

  # Tokens

  t_PLUS    = r'\+'
  t_MINUS   = r'-'
  t_TIMES   = r'\*'
  t_DIVIDE  = r'/'
  t_EQUALS  = r'='
  t_LPAREN  = r'\('
  t_RPAREN  = r'\)'
  t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

  def t_NUMBER(t):
     r'\d+'
     t.value = int(t.value)
     return t

  # Ignored characters
  t_ignore = " \t"

  def t_newline(t):
     r'\n+'
     t.lexer.lineno += t.value.count("\n")

  def t_error(t):
     print("Illegal character '%s'" % t.value[0])
     t.lexer.skip(1)

  # Build the lexer
  import ply.lex as lex
  lex.lex()
```

```
  # Precedence
rules for the arithmetic operators
  precedence = (
     ('left','PLUS','MINUS'),
     ('left','TIMES','DIVIDE'),
     ('right','UMINUS'),
     )

  # dictionary of names (for storing variables)
  names = { }

  def p_statement_assign(p):
     'statement : NAME EQUALS expression'
     names[p[1]] = p[3]

  def p_statement_expr(p):
     'statement : expression'
     print(p[1])

  def p_expression_binop(p):
     '''expression : expression PLUS expression
                   | expression MINUS expression
                   | expression TIMES expression
                   | expression DIVIDE expression'''
     if p[2] == '+'  : p[0] = p[1] + p[3]
     elif p[2] == '-': p[0] = p[1] - p[3]
     elif p[2] == '*': p[0] = p[1] * p[3]
     elif p[2] == '/': p[0] = p[1] / p[3]

  def p_expression_uminus(p):
     'expression : MINUS expression %prec UMINUS'
     p[0] = -p[2]

  def p_expression_group(p):
     'expression : LPAREN
expression RPAREN'
     p[0] = p[2]

  def p_expression_number(p):
     'expression : NUMBER'
     p[0] = p[1]

  def p_expression_name(p):
     'expression : NAME'
     try:
        p[0] = names[p[1]]
     except LookupError:
```

```
        print("Undefined name '%s'" % p[1])
        p[0] = 0

  def p_error(p):
      print("Syntax error at '%s'" % p.value)

  import ply.yacc as yacc
  yacc.yacc()

  while True:
      try:
          s = raw_input('calc > ')   # use input() on Python 3
      except EOFError:
          break
      yacc.parse(s)
```

Bug Reports and Patches
==========
My goal with PLY is to simply have a decent lex/yacc implementation
for Python. As a general rule, I don't spend huge amounts of time
working on it unless I receive very specific bug reports and/or
patches to fix problems. I also try to incorporate submitted feature
requests and enhancements into each new version. Please visit the PLY
github page
 at https://github.com/dabeaz/ply to submit issues and pull
requests. To contact me about bugs and/or new features, please send
email to dave@dabeaz.com.

-- Dave

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1.271 wireshark 2.6.20

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1.272 binutils 2.36.1

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration

including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith
Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation
that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael

Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner
of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many
 small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost;
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intentionally leaving anyone out.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line
and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You
should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
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Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

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your libraries, too.

When we speak of free software, we are referring to freedom,
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have the freedom to distribute copies of free software (and charge for

this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
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These restrictions translate to certain responsibilities for you if
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For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making
changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain
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want its recipients to know that what they have is not the original
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Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed
for everyone's
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs. This
license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is

analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under

copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition,
mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally

distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary.
Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as

changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without

permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally

available free
programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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That's all there is to it!
From gsf@research.att.com Wed Mar 1 20:30:54 2006
Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra
Received: from localhost (localhost [127.0.0.1])
 by localhost (Postfix) with ESMTP id B8C814E4F
 for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
with LMTP id 05987-03 for <mps@bridge.intra>;
Wed, 1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
 by mail.bridge.intra (Postfix) with ESMTP id C8C73794D
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X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000
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for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:

X-UID: 44736

you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
Licensed under the LGPL v2.1, see the file COPYING.LIB in this tarball.

1.276 expat 2.4.1

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1.277 json-c 0.99.9

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1.278 openosc 1.0.5

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1.279 libssh 0.8.9

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*/
```

1.282 kmod 29

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```
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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
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If such an object file uses only numerical parameters, data
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user
installs one, as long as the modified version is
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1.287 tcl 8.6.11

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1.288 xinetd 2.3.15.4

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1.289 mtd-utils 1.5.0

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1.299 libgcrypt 1.9.4

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1.302 libseccomp 2.5.3

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1.303 shared-mime-info 2.1

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b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered

independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based
on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or
executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary

form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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6. Each
time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free
redistribution of the Program by
all those who receive copies directly or indirectly through you, then

the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through
any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number
of this License which applies to it and "any
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of preserving the free status of all derivatives of our free software and
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REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
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PROGRAMS), EVEN
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POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

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.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.309 libpwquality 1.4.4

1.309.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* pw.h
*
* Password routines, adopted from IOX
*
* May 2000 Mark Eklund
* July 2005, Craig MacFarlane
*
* Copyright (c) 2000-2005, 2007, 2010, 2014, 2018 by cisco Systems, Inc.
* All rights reserved.
*/
/*
* edt: * pw_type_t
*      Possible formats of saving the password in SysDB.
*
* item: PW_TYPE_CLEAR
*       The password in the clear, visible for anybody.
*
* item: PW_TYPE_1WAY
*       The password encrypted to an MD5 digest.  This is not reversible.
*
* item: PW_TYPE_1WAY_2
*       The password encrypted to an sha256 digest.  This is not reversible.
*
* item: PW_TYPE_2WAY
*       The Cisco type 7 password encryption.  This is reversible
*  by both Cisco products and several public domain programs.
*/
```

Found in path(s):
* /opt/cola/permits/1273716988_1648046860.0/0/pw-tar/pw/include/pw.h

No license file was found, but licenses were detected in source scan.

```
/*
* pw_defs.h
*
* Password defines.
*
* July 2005, Craig MacFarlane
*
* Copyright (c) 2005, 2007, 2010, 2014, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1273716988_1648046860.0/0/pw-tar/pw/include/pw_defs.h
No license file was found, but licenses were detected in source scan.

```
# All rights reserved.
```

Found in path(s):
* /opt/cola/permits/1273716988_1648046860.0/0/pw-tar/pw/Makefile.binos
No license file was found, but licenses were detected in source scan.

```
/*
* pw.c
*
* AAA password routines, adopted from IOX
*
* January 2005, Naiming Shen
* July 2005, Craig MacFarlane
*
* Copyright (c) 2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
* All rights reserved.
*
*------------------------------------------------------------------
* pw.c -- password encryption/decryption routines
*
* May 08 2000, Mark Eklund
*
* Copyright (c) 2002-2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1273716988_1648046860.0/0/pw-tar/pw/src/pw.c
No license file was found, but licenses were detected in source scan.

```
/*
* pw_const.tph
*
* Copyright (c) 2019 by Cisco Systems, Inc.
* All rights reserved.
*/

@DIRECTIVES{
  auto_import_stg = false;
  skip_auto_tdl_include = true;
```

```
}@

@IMPORT_STG{
  import "constant_gen.stg";
}@

@TDL{
  import "pw_const.tdl"
}@

@CODE{

#ifndef __TDLC_GEN_PW_CONST_H__
#define __TDLC_GEN_PW_CONST_H__

  $constant_generate()$

#endif /* __TDLC_GEN_PW_CONST_H__ */

}@
```

Found in path(s):
* /opt/cola/permits/1273716988_1648046860.0/0/pw-tar/pw/include/pw_const.tph

1.310 glibc 2.35

1.310.1 Available under license :

```
@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@subheading Preamble
```

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of

any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative
of the original library. The ordinary
General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the
same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is

linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
``work based on the library'' and a ``work that uses the library''. The
former
contains code derived from the library, whereas the latter must
be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program
which contains a notice placed by the copyright holder or other
authorized party saying it may be distributed under the terms of this
Lesser General Public License (also called ``this License''). Each
licensee is addressed as ``you''.

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

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

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

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

@item

You may copy and distribute
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complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

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

@enumerate a
@item
The modified work must itself be a software library.

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this
 License.

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

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

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

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

medium customarily used for software interchange.

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

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

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

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

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

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

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse

engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

@item
Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.
@end enumerate

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

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

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

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

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

@item
You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
   <xsl:text>&#10;</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
   <xsl:if test="translate($rest, '&#9;&#32;', '')">
```

```
    <xsl:call-template name="isc.copyright.format">
     <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="db:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="db:year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="db:holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of
select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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1.315 expat 2.4.6

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1.316 tftp-hpa 5.2-12.el7

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* /opt/cola/permits/1289434219_1647451339.67/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/config.h
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Found in path(s):
* /opt/cola/permits/1289434219_1647451339.67/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/remap.c
* /opt/cola/permits/1289434219_1647451339.67/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/remap.h
* /opt/cola/permits/1289434219_1647451339.67/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/misc.c
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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

```
%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp-server package
 provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
```

%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

*
 Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
-
 update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>

- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug
 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

*
 Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

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* /opt/cola/permits/1289434219_1647451339.67/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp.spec.in
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*
 /opt/cola/permits/1289434219_1647451339.67/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/tftp.c
* /opt/cola/permits/1289434219_1647451339.67/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/main.c
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*
/opt/cola/permits/1289434219_1647451339.67/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftp/extern.h
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* /opt/cola/permits/1289434219_1647451339.67/0/tftp-hpa-distrotech-tftp-hpa-zip/tftp-hpa-distrotech-tftp-hpa/tftpd/recvfrom.c
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1.317 libedit 20080614-2.11

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1.318 tiny-xml 0.9.5-5.3.el6

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/** @mainpage

<h1> TinyXML </h1>

TinyXML is a simple, small, C++ XML parser that can be easily
integrated into other programs.

<h2> What it does. </h2>

In brief, TinyXML parses an XML document, and builds from that a
Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create
your own document markups. Where HTML does a very good job of marking
documents for browsers, XML allows you to define any kind of document
markup, for example a document that describes a "to do" list for an
organizer application. XML is a very structured and convenient format.
All those random file formats created to store application data can
all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to
read spec is at
http://www.w3.org/TR/2004/REC-xml-20040204/.
 An intro to XML
(that I really like) can be found at
http://skew.org/xml/tutorial.

There are different ways to access and interact with XML data.
TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed
into a C++ objects that can be browsed and manipulated, and then
written to disk or another output stream. You can also construct an XML document
from scratch with C++ objects and write this to disk or another output
stream.

TinyXML is designed to be easy and fast to learn. It is two headers
and four cpp files. Simply add these to your project and off you go.
There is an example file - xmltest.cpp - to get you started.

TinyXML is released under the ZLib license,
so you can use it in open source or commercial code. The details
of the license are at the top of every source file.

TinyXML attempts to be a flexible parser, but with truly correct and
compliant XML output. TinyXML should compile on
 any reasonably C++
compliant system. It does not rely on exceptions or RTTI. It can be
compiled with or without STL support. TinyXML fully supports
the UTF-8 encoding, and the first 64k character entities.

<h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs
(eXtensible Stylesheet Language.) There are other parsers out there
(check out www.sourceforge.org, search for XML) that are much more fully
featured. But they are also much bigger, take longer to set up in
your project, have a higher learning curve, and often have a more
restrictive license. If you are working with browsers or have more
complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

@verbatim
 <!DOCTYPE Archiv [
  <!ELEMENT Comment (#PCDATA)>
 ]>
@endverbatim

because TinyXML sees this as a !DOCTYPE node with an illegally
embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For

the impatient, here is a tutorial to get you going. A great way to get started,
but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find
bugs, please file a bug report on the sourceforge web site
(www.sourceforge.net/projects/tinyxml). We'll get them straightened
out as soon as possible.

There are some areas of improvement; please check sourceforge if you are
interested in working on TinyXML.

<h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

 TinyXPath (http://tinyxpath.sourceforge.net). TinyXPath is a small footprint
XPath syntax decoder, written in C++.
 TinyXML++ (http://code.google.com/p/ticpp/). TinyXML++ is a completely new
interface to TinyXML that uses MANY of the C++ strengths. Templates,
exceptions, and much better error handling.

<h2>
Features </h2>

<h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML
uses the std::string class, and fully supports std::istream, std::ostream,
operator<<, and operator>>. Many API methods have both 'const char*' and
'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All
the string classes are implemented by TinyXML itself. API methods
all use the 'const char*' form for input.

Use the compile time #define:

TIXML_USE_STL

to compile one version or the other. This can be passed by the compiler,
or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment
variable TINYXML_USE_STL=YES/NO will control STL compilation. In the
Windows project file, STL and non STL targets are provided. In your project,
It's probably easiest to add the line "#define TIXML_USE_STL" as the first
line of tinyxml.h.

<h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing
to manipulate XML files in any language. TinyXML
also supports "legacy mode" - the encoding used before UTF-8 support and
probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However,
by setting the value of TIXML_DEFAULT_ENCODING in the header file, TinyXML
can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

 If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf)
begin the file or data stream, TinyXML will read it as UTF-8.
 If the declaration tag is read, and it has an encoding="UTF-8", then
TinyXML will read it as UTF-8.
 If the declaration tag is read, and it has no encoding specified, then TinyXML will
read it as UTF-8.
 If the declaration tag is read, and it has an encoding="something else", then TinyXML
will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's

not clear what that mode does exactly, but old content should keep working.
 Until one of the above criteria is met, TinyXML runs in Legacy Mode.

What happens if the encoding is incorrectly set or detected? TinyXML will try
to read and pass through text seen as improperly encoded. You may get some strange results or
mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile(TIXML_ENCODING_LEGACY) or
LoadFile(filename, TIXML_ENCODING_LEGACY). You may force it to use legacy mode all
the time by setting TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY. Likewise, you may
force it to TIXML_ENCODING_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You
don't need to be aware of UTF-8 or change your code in any way. You can think
of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode!
TinyXML

does not use or directly support wchar, TCHAR, or Microsoft's _UNICODE at this time. It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding. Text encoded as SHIFT-JIS can not be read by TinyXML. A good text editor can import SHIFT-JIS and then save as UTF-8.

The Skew.org link does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file "utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that Print() or printf() cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

<h3> Entities </h3>
TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:

@verbatim
 & &
 < <
 > >
 " "
 ' '
@endverbatim

These are recognized when the XML document is read, and translated to there UTF-8 equivalents. For instance, text with the XML of:

@verbatim
 Far & Away
@endverbatim

will have the Value()
of "Far & Away" when queried from the TiXmlText object,
and will be written back to the XML stream/file as an ampersand. Older versions
of TinyXML "preserved" character entities, but the newer versions will translate
them into characters.

Additionally, any character can be specified by its Unicode code point:
The syntax " " or " " are both to the non-breaking space characher.

<h3> Printing </h3>
TinyXML can print output in several different ways that all have strengths and limitations.

- Print(FILE*). Output to a std-C stream, which includes all C files as well as stdout.
 - "Pretty prints", but you don't have control over printing options.
 - The output is streamed directly to the FILE object, so there is no memory overhead
   in the TinyXML code.
 - used by Print() and SaveFile()

- operator<<. Output to a c++ stream.
 - Integrates with standart C++ iostreams.
 - Outputs in "network printing" mode without line breaks. Good for network transmission
   and moving XML
 between C++ objects, but hard for a human to read.

- TiXmlPrinter. Output to a std::string or memory buffer.
 - API is less concise
 - Future printing options will be put here.
 - Printing may change slightly in future versions as it is refined and expanded.

<h3> Streams </h3>
With TIXML_USE_STL on TinyXML supports C++ streams (operator <<,>>) streams as well
as C (FILE*) streams. There are some differences that you may need to be aware of.

C style output:
 - based on FILE*
 - the Print() and SaveFile() methods

 Generates formatted output, with plenty of white space, intended to be as
 human-readable as possible. They are very fast, and tolerant of ill formed
 XML documents. For example, an XML document that contains 2 root elements
 and 2 declarations, will still print.

C style input:
 - based on FILE*
 - the Parse() and LoadFile() methods

 A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:
- based on std::ostream
- operator<<

Generates
condensed output, intended for network transmission rather than
readability. Depending on your system's implementation of the ostream class,
these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML:
a document should contain the correct one root element. Additional root level
elements will not be streamed out.

C++ style input:
- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky
part is knowing when the XML document is complete, since there will almost
certainly be other data in the stream. TinyXML will assume the XML data is
complete after it reads the root element. Put another way, documents that
are ill-constructed with more than one root element will not read correctly.
Also note that operator>> is somewhat slower than Parse, due to both
implementation of the STL and limitations of TinyXML.

<h3> White space </h3>
The world simply does not agree on whether white space should be kept,
or condensed.
For example, pretend the '_' is a space, and look at "Hello____world". HTML, and
at least some XML parsers, will interpret this as "Hello_world". They condense white
space. Some XML parsers do not, and will leave it as "Hello____world". (Remember
to keep pretending the _ is a space.) Others suggest that __Hello___world__ should become
Hello___world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the
first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace(bool) to set the desired behavior.
The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace(bool)
before making any calls to Parse XML data, and I don't recommend changing it after
it has been set.

<h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check
for null returns from method calls. An error safe implementation can
generate a lot of code like:

@verbatim
TiXmlElement* root = document.FirstChildElement(
 "Document");
if (root)
{
 TiXmlElement* element = root->FirstChildElement("Element");
 if (element)
 {
  TiXmlElement* child = element->FirstChildElement("Child");
  if (child)
  {
   TiXmlElement* child2 = child->NextSiblingElement("Child");
   if (child2)
   {
    // Finally do something useful.
@endverbatim

Handles have been introduced to clean this up. Using the TiXmlHandle class,
the previous code reduces to:

@verbatim
TiXmlHandle docHandle(&document);
TiXmlElement* child2 = docHandle.FirstChild("Document").FirstChild("Element").Child("Child", 1
).ToElement();
if (child2)
{
 // do something useful
@endverbatim

Which is much easier to deal with. See TiXmlHandle for more information.

<h3> Row and Column tracking </h3>
Being able to track nodes and attributes back to their origin location
in source files can be very important for some applications. Additionally,
knowing where parsing errors occured in the original source can be very
time
 saving.

TinyXML can tracks the row and column origin of all nodes and attributes
in a text file. The TiXmlBase::Row() and TiXmlBase::Column() methods return
the origin of the node in the source text. The correct tabs can be
configured in TiXmlDocument::SetTabSize().

<h2> Using and Installing </h2>

To Compile and Run xmltest:

A Linux Makefile and a Windows Visual C++ .dsw file is provided.
Simply compile and run. It will write the file demotest.xml to your
disk and generate output on the screen. It also tests walking the
DOM by printing out the number of nodes found using different
techniques.

The Linux makefile is very generic and runs on many systems - it
is currently tested on mingw and
MacOSX. You do not need to run 'make depend'. The dependecies have been
hard coded.

<h3>Windows project file for VC6</h3>

tinyxml: tinyxml library, non-STL
tinyxmlSTL: tinyxml library, STL
tinyXmlTest: test app, non-STL
tinyXmlTestSTL: test app,
 STL

<h3>Makefile</h3>
At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML_USE_STL. Details (such that they are) are in
the makefile.

In the tinyxml directory, type "make clean" then "make". The executable
file 'xmltest' will be created.

<h3>To Use in an Application:</h3>

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your
project or make file. That's it! It should compile on any reasonably
compliant C++ system. You do not need to enable exceptions or
RTTI for TinyXML.

<h2> How TinyXML works. </h2>

An example is probably the best way to go. Take:
@verbatim
 <?xml version="1.0" standalone=no>
 <!-- Our to do list data -->
 <ToDo>
  <Item priority="1"> Go to the <bold>Toy store!</bold></Item>

```
 <Item priority="2"> Do bills</Item>
 </ToDo>
```
@endverbatim

Its not much of a To Do list, but it will do. To read this file
(say "demo.xml") you would create a document, and parse it in:
@verbatim
```
 TiXmlDocument
 doc( "demo.xml" );
 doc.LoadFile();
```
@endverbatim

And its ready to go. Now lets look at some lines and how they
relate to the DOM.

@verbatim
```
<?xml version="1.0" standalone=no>
```
@endverbatim

 The first line is a declaration, and gets turned into the
 TiXmlDeclaration class. It will be the first child of the
 document node.

 This is the only directive/special tag parsed by TinyXML.
 Generally directive tags are stored in TiXmlUnknown so the
 commands wont be lost when it is saved back to disk.

@verbatim
```
<!-- Our to do list data -->
```
@endverbatim

 A comment. Will become a TiXmlComment object.

@verbatim
```
<ToDo>
```
@endverbatim

 The "ToDo" tag defines a TiXmlElement object. This one does not have
 any attributes, but does contain 2 other elements.

@verbatim
```
<Item priority="1">
```
@endverbatim

 Creates another TiXmlElement which is a child of the "ToDo" element.
 This element has 1 attribute, with the name "priority" and the value
 "1".

@verbatim
Go to the
@endverbatim

A TiXmlText.
This is a leaf node and cannot contain other nodes.
It is a child of the "Item" TiXmlElement.

@verbatim
<bold>
@endverbatim

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:
@verbatim
TiXmlDocument "demo.xml"
TiXmlDeclaration "version='1.0'" "standalone=no"
TiXmlComment " Our to do list data"
TiXmlElement "ToDo"
TiXmlElement "Item" Attribtutes: priority = 1
TiXmlText "Go to the "
TiXmlElement "bold"
TiXmlText "Toy store!"
TiXmlElement "Item" Attributes: priority=2
TiXmlText "Do bills"
@endverbatim

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox'
configuration file.

<h2> License </h2>

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<h2> References </h2>

The World Wide Web Consortium is the definitive standard body for
XML, and their web pages contain huge amounts of information.

The definitive spec:
http://www.w3.org/TR/2004/REC-xml-20040204/

I also recommend "XML Pocket Reference" by Robert Eckstein and published by
OReilly...the book that got
 the whole thing started.

<h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and
encouragement. It all helps, and makes this project fun. A special thanks
to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here
we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still
in the documentation.) Lee reviews changes and releases new versions,
with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you
use TinyXML. Hopefully you will enjoy it and find it useful.
Please post questions, comments, file bugs, or contact us at:

www.sourceforge.net/projects/tinyxml

Lee Thomason, Yves Berquin, Andrew Ellerton
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*
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1.319 python3-asn1crypto 1.5.1

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1.324 libusb-compat 0.1.4-3.el7

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1.325 golang 1.17.9

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# Names should be added to this file only after verifying that
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#     http://code.google.com/legal/individual-cla-v1.0.html
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#
# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
#     Individual's name <submission email address>
#     Individual's name <submission email address> <email2> <emailN>
#
```

An entry with multiple email addresses specifies that the
first address should be used in the submit logs and
that the other addresses should be recognized
as the
same person when interacting with Gerrit.

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1.326 elfutils 0.186

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1.328 libnsl 1.3.0

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Upstream-Name: libnsl
Upstream-Contact: Thorsten Kukuk <kukuk@thkukuk.de>
Source: https://github.com/thkukuk/libnsl

Files: debian/*
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Files: AUTHORS
 configure.ac
 config.h.in
 libnsl.pc.in
 Makefile.am
 NEWS
 README
 src/Makefile.am
 src/do_ypcall.c
 src/internal.h
 src/libnsl.map

src/nisplus/nis_error.c
src/taddr2host.c
src/taddr2ipstr.c
src/taddr2port.c
src/yp_first.c
src/yp_get_default_domain.c
src/yp_maplist.c
src/yp_master.c
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src/ypbinderr_string.c
src/yperr_string.c
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Files: src/libc-lock.h
src/nisplus/nis_add.c
src/nisplus/nis_addmember.c
src/nisplus/nis_call.c
src/nisplus/nis_callback.c
src/nisplus/nis_checkpoint.c
src/nisplus/nis_clone_dir.c
src/nisplus/nis_clone_obj.c
src/nisplus/nis_clone_res.c
src/nisplus/nis_creategroup.c
src/nisplus/nis_defaults.c
src/nisplus/nis_destroygroup.c
src/nisplus/nis_domain_of.c
src/nisplus/nis_domain_of_r.c
src/nisplus/nis_file.c
src/nisplus/nis_findserv.c
src/nisplus/nis_free.c
src/nisplus/nis_getservlist.c
src/nisplus/nis_hash.c
src/nisplus/nis_intern.h
src/nisplus/nis_ismember.c
src/nisplus/nis_local_names.c
src/nisplus/nis_lookup.c
src/nisplus/nis_mkdir.c
src/nisplus/nis_modify.c
src/nisplus/nis_ping.c
src/nisplus/nis_print.c
src/nisplus/nis_print_group_entry.c
src/nisplus/nis_remove.c
src/nisplus/nis_removemember.c
src/nisplus/nis_rmdir.c

src/nisplus/nis_server.c
src/nisplus/nis_subr.c
src/nisplus/nis_table.c
src/nisplus/nis_util.c
src/nisplus/nis_verifygroup.c
src/nisplus/nis_xdr.c
src/nisplus/nis_xdr.h
src/rpcsvc/nislib.h
src/rpcsvc/ypclnt.h
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Files: src/rpcsvc/nis_callback.h
src/rpcsvc/nis_callback.x
src/rpcsvc/nis_object.x
src/rpcsvc/nis_tags.h
src/rpcsvc/nis.h
src/rpcsvc/nis.x
src/rpcsvc/yp.h
src/rpcsvc/yp.x
src/rpcsvc/yp_prot.h
src/rpcsvc/yppasswd.h
src/rpcsvc/yppasswd.x
src/rpcsvc/ypupd.h
src/yp_xdr.c
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depcomp
missing
test-driver
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Files: config.rpath
m4/gettext.m4
m4/host-cpu-c-abi.m4
m4/iconv.m4
m4/intlmacosx.m4
m4/lib-ld.m4
m4/lib-link.m4
m4/lib-prefix.m4
m4/libtool.m4
m4/ltoptions.m4
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po/Makefile.in.in
po/Makevars
po/POTFILES.in
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po/boldquot.sed
po/en@boldquot.header
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1.329 dhcp 4.4.3

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

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
     <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
```

```
    <xsl:with-param name="text">
      <xsl:for-each select="db:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
   <xsl:with-param name="years" select="db:year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="db:holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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1.330 ethtool 5.16

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1.334 iproute 5.17.0

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1.336 tdb 1.46.5

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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Gadi Oxman, August 1995

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    Theodore Ts'o
    23-June-2007

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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1.338 inetutils 2.2

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version 0.1
##
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1.345 apache-http-server 2.4.54

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/**
* NCSA HTTPd Server
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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****
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     ===============

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

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
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*/
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=UTF-8" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
          This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet" type="text/css" href="./style/css/prettify.css"
 />
<script src="./style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="./images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar">
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<script type="text/javascript"><!--//--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

```
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
     d.write('<div id="comments_thread"><\/div>');
     var s = d.createElement('script');
     s.type = 'text/javascript';
     s.async = true;
     s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
      (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
     d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\/div>');
  }
})(window, document);
//--><![]]></script></div><div id="footer">
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<p class="menu"><a href="./mod/">Modules</a> | <a href="./mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="./glossary.html">Glossary</a> | <a
href="./sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--//--><![CDATA[//><!--
if (typeof(prettyPrint) !== 'undefined') {
  prettyPrint();
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1.350 python-setuptools 63.2.0

1.350.1 Available under license :

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1.351 rsyslog 8.2206.0

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1.352 python-setuptools 8.12.0

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1.353 mtd-utils 2.1.4

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file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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1.357 pyyaml 6.0

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1.361 glib 2.72.3

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1.363 libuv 1.44.2

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1.365 coreutils 9.0

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1.366 libusb-compat 0.1.7

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1.367 sqlite 3.38.5

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1.369 open-ldap 2.5.12

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1.370 curl 7.84.0

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1.372 libffi 3.4.4

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```
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under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the
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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter
the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

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  * Optimize Java serialization of strings so that UTF-8 encoding happens only
    once per string per serialization call.
  * Clean up some Java warnings.
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Kacper Kowalik <xarthisius.kk@gmail.com>
  * Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
  * Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xlC compiler build issues
  * Added atomicops for AIX (POWER)
Nipunn Koorapati <nipunn1313@gmail.com>
  * Provide a type alias field ValueType
on EnumTypeWrapper
  * Match service argument names to abstract interface
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language
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1.377 base-64 1.0.0

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1.379 boost 1.81.0

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1.380 pm-utils 1.4.1

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This package was debianized by Jan Janak <jan@iptel.org> on
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The debian package files have been derived from the original
radiusclient1 debian package.

It was downloaded from ftp.cityline.net/pub/radiusclient/

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1.382 pam-ldap 184

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1.385 python-pip 23.0.1

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https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes

2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.386 libtool 2.4.7

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1.389 biosdevname 0.6.2-1.el7

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1.390 glib 2.42.2-5.el7

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1.391 kmod 20-8.el7_2

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1.394 cyrus-sasl 2.1.26-20.el7_2

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1.395 keyutils 1.5.8-3.el7

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1.396 zlib 1.2.7-15.el7

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code or patches to this implementation of sudo since I began
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Russ Allbery
Nick Andrew
Dimitry Andric
Danny Barron
Tom Bates
Zdenek Behan
Ray Bellis
Elias Benali
Jamie Beverly
Spider Boardman
Jakub Bogusz
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1.399 libidn 1.28-4.el7

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
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which the executable runs, unless that component itself accompanies
the executable.

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1.404 sed 4.2.2-5.el7

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1.406 curl 7.29.0-25.el7.centos

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axTLS http://axtls.sourceforge.net/

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c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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1.407 lsscsi 0.27-3.el7

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1.408 gawk 4.0.2-4.el7

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preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference
 between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

 Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a

fee.

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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition,
mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

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

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

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

8. You may not copy, modify, sublicense, link with, or distribute
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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed

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it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
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but may differ in detail to address new problems or concerns.

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FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.
Here is a sample; alter the names:

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

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Version 3, 29 June 2007

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When we speak of free software, we are referring to
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To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have

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For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally
available free
programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered
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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;
section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately
publish on each copy an appropriate copyright notice;
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keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years

and valid for as
long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user

actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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1.410 findutils 4.5.11-5.el7

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1.413 libcap 2.22-8.el7

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alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
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1.416 iputils 20121221-7.el7

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a function in a library to compute square roots has
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1.419 usb-modeswitch 1.2.7-6.el7

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1.421 raritan-ipmi 1-1

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1.422 jansson 2.4-6.el7

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that version instead if you wish.) Do not make any other change in
these notices.

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

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

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

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

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or

distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying,
distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute
the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system; it
is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Library General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each
version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

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OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
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PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

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SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>
<name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 59 Temple Place - Suite 330, Boston,

MA 02111-1307, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here
is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
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@center Version 2.1, February 1999

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
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Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@subheading Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software---typically
libraries---of the Free
Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library
or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation
will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative
of the original library. The ordinary
General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the
same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former
contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

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

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

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

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

@item
You may copy and distribute
verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

@enumerate a
@item
The modified work must itself be a software library.

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this
License.

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

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

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

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

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

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library''. Such a

work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

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

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of
this License. Also, you must do one
of these things:

@enumerate a

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

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

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

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

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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

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

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

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

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

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You may not copy, modify, sublicense, link with, or distribute
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attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
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this License.

@item
If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License,
 they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software
 distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

@item
If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add

an explicit geographical distribution limitation excluding those countries,
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1.426 bash 4.2.46-20.el7_2

1.426.1 Available under license :

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged

some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
 id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
 id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
      "ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

   Sure. The canonical versions are available on ftp.armory.com; you might
want to pick up the latest versions
 before modifying them.

      John

On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
}   9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>

} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in
 the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey

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Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995
12:07:51 -0400
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id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger
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1.427 libdrm 2.4.60-3.el7

1.427.1 Available under license :

From RPM File Metadata:MIT

1.428 nss 3.21.0-9.el7_2

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pi1k.txt
pi2k.txt
pi5k.txt

1.429 e2fsprogs 1.42.9-7.el7

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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Gadi Oxman, August 1995

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#
This is a Makefile stub which handles the creation of BSD shared
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#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

```
all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
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Theodore Ts'o
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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

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#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

   Device Boot   Start   End   Blocks   Id System

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

   Device Boot   Start   End   Blocks   Id System
__ts_dev__1   2048   4095   1024   83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023
 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

```
---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

   Device Boot      Start         End      Blocks   Id  System
__ts_dev__1            2048        4095        1024   83  Linux
__ts_dev__2            4096       20479        8192   a5  FreeBSD
-------------------

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.


Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#       start       end      size     fstype   [fsize bsize   cpg]
 c:     4096     20479     16384     unused        0     0
 d:        0
   16064     16065     unused        0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.


Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#       start       end      size     fstype   [fsize bsize   cpg]
```

```
 a:    4096     6144     2049     4.2BSD       0     0     0
 c:    4096    20479    16384     unused       0     0
 d:       0    16064    16065     unused       0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------



Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.


Command (m for help):

BSD disklabel command (m for help):
0  unused          5  4.1BSD          9  4.4LFS          d  boot
1  swap
          6  Eighth Edition   a  unknown         e  ADOS
2  Version 6       7  4.2BSD          b  HPFS            f  HFS
3  Version 7       8  MS-DOS          c  ISO-9660        10  AdvFS
4  System V

BSD disklabel command (m for help):
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1.431 vim 7.4.160-1.el7

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uganda.txt For Vim version 7.4. Last change: 2013 Jul 06

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SUMMARY
iccf *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

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The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
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impossible to contact the maintainer, the obligation to send him
your changes ceases. Once the maintainer has confirmed that he has
received your changes they will not have to be sent again.
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c) Provide all the changes, including source code, with every copy of
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context diff. You can choose what license to use for new code you
add. The changes and their license must not restrict
others from
making their own changes to the official version of Vim.
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version of Vim without fee or restriction.
- You keep the changes for at least three years after last
distributing the corresponding modified Vim. When the maintainer
or someone who you distributed the modified Vim to asks you (in
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- You clearly describe in the distribution how to contact you. This
contact information must remain valid for at least three years
after last distributing the corresponding
modified Vim, or as long
as possible.
e) When the GNU General Public License (GPL) applies to the changes,
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any later version.
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not conflict with the license used for the changes.
4) The contact information as required under 2)a) and 2)d) must not be
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If the number of changes is small (e.g., a modified Makefile) e-mailing a
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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this
file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
|sponsor|. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
A few minor changes have been made since he checked it, but that should not
make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits
further
distribution to the GNU GPL. Also when you didn't actually change
anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all
further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and
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MODIFIED_BY define.

==
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there
is enough food. But this district is suffering from AIDS more than any other
part of the world. Some say that it started there. Estimations are that 10
to 30% of the Ugandans are infected with HIV. Because parents

die, there are
many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle
or older
sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold
below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

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1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship
the amounts are
very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o.
box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy

10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If
you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit
card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

1.432 lua 5.1.4-14.el7

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1.433 net-tools 2.0-0.17.20131004git.el7

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

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.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
 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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is what you want to do, use the GNU Lesser General
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1.434 libdaemon 0.14-7.el7

1.434.1 Available under license :

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Version 2.1, February 1999

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such linking only if the
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We call this license the "Lesser" General Public License because it
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library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the
free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

5. A program that contains no derivative of any portion of the

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

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

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That's all there is to it!

1.435 elfutils 0.163-3.el7

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Version 3, 29 June 2007

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of using an interface provided by the Library.

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1.441 dhcp 4.2.5-42.el7.centos

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

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

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

 Author: Julio Merino <jmmv@NetBSD.org>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

 Author: Julio Merino <jmmv84@gmail.com>

==========

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

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1.443 d-bus 1.6.12-14.el7_2

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consider it more useful to permit linking proprietary applications with the
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Public License instead of this License.
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

#1:   32   7648 0x83
#2:   7680   8704 0xa5
#5:   7936   4864 0x7 (freebsd)
#6:   12544   3584 0x7 (freebsd)
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023
bsd.img
Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux
__ts_dev__2		4096	20479	8192	a5	FreeBSD

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
c:	4096	20479	16384	unused	0	0	
d:	0						
	16064	16065	unused	0	0		

BSD disklabel command (m for help):
Command (m for help):
---

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
a:	4096	6144	2049	4.2BSD	0	0	0
c:	4096	20479	16384	unused	0	0	
d:	0	16064	16065	unused	0	0	

BSD disklabel command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap
6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

BSD disklabel command (m for help):
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1.445 libffi 3.0.13-16.el7

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1.446 libsepol 2.1.9-3.el7

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1.447 pciutils 3.2.1-4.el7

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.451 tcp-wrappers 7.6-77.el7

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1.453 openssl 0.9.8e-29.el7.centos.3

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1.454 file 5.11-31.el7

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1.455 zip 3.0-10.el7

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1.456 pcre 8.32-15.el7_2.1

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Email local part: ph10
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1.457 unzip 6.0-15.el7

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- -

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```
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  *
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  *
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
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The decompression core code for the deflate method (inflate.[ch],
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1.458 openssh 6.6.1p1-25.el7_2

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1.459 u-boot 1.3.0

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1.460 systemd 250.5

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*
/opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/cmds.c
* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/cmdtab.c

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* from: @(#)ftp_var.h 5.9 (Berkeley) 6/1/90
* $Id: ftp_var.h,v 1.12 1999/10/02 18:39:17 dholland Exp $
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* $Id: pathnames.h,v 1.1 1996/07/13 23:46:07 dholland Exp $
 */

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* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/pathnames.h

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 * by Mark Gates <mgates@nlanr.net>
 * and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
 * ---------------------------------------------------------------------
 * input and output numbers, converting with kilo, mega, giga
 * --------------------------------------------------------------------- */
```

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed

for everyone's
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference
between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under

the scope of this License.

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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

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

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

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

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

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

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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

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an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
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the Free Software Foundation.

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FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.
Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

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Version 3, 29 June 2007

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When we speak of free software, we are referring to
freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this

License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major

Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

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and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is

released under this License and any conditions added under section
7. This requirement modifies the requirement in section
4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this
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License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts,
regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the

product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration
including heavy testing and
verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith
Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation
that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many

small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost;
we aren't
intentionally leaving anyone out.

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1.470 rdma-cm 33.0

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Upstream-Name: rdma-core
Upstream-Contact: Doug Ledford <dledford@redhat.com>,
Leon Romanovsky <Leon@kernel.org>
Source: https://github.com/linux-rdma/rdma-core

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

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

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

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

therefore falls outside the scope of this License.

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference
between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under

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

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

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more
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c) If distribution of the work is made by offering access to copy
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration
including heavy testing and
verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith
Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation
that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many

small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and
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intentionally leaving anyone out.

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1.472 sysv-init 3.01

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1.474 lvm2 1.02.175

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1.475 time 1.9-r0

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1.477 libfastjson 0.99.8-r0

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1.478 yajl 2.1.0

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* /opt/cola/permits/1723834055_1687183247.6822069/0/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_parse.h
*
/opt/cola/permits/1723834055_1687183247.6822069/0/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_common.h
* /opt/cola/permits/1723834055_1687183247.6822069/0/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_gen.h
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Found in path(s):
* /opt/cola/permits/1723834055_1687183247.6822069/0/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_tree.h

1.479 protobuf-c 1.4.1

1.479.1 Available under license :

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1.480 fdisk 2.37.4

1.480.1 Available under license :

NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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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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        Version 2, June 1991

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1.484 shadow 4.11.1

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localtime.go, localtime_test.go:

Originals:
  https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
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Changes:
  * Renamed files from civil* to localtime*.
  * Package changed from civil to toml.

* 'Local' prefix added to all structs.

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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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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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1.494 ntp 4.2.8p17

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1.495 pciutils 3.0.0

1.495.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* The PCI Utilities -- Declarations
*
* Copyright (c) 1997--2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/pciutils.h
No license file was found, but licenses were detected in source scan.

/* Declarations for getopt.
  Copyright (C) 1989, 1990, 1991, 1992, 1993 Free Software Foundation, Inc.

  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, or (at your option) any
  later version.

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  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program; if not, write to the Free Software
  Foundation, 675 Mass Ave, Cambridge, MA 02139, USA. */

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/compat/getopt.h
No license file was found, but licenses were detected in source scan.

/*
* The PCI Utilities -- Common Functions
*
* Copyright (c) 1997--2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/common.c
No license file was found, but licenses were detected in source scan.

/*
* The PCI Library -- Generic Direct Access Functions
*
* Copyright (c) 1997--2000 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/generic.c
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Library -- Direct Configuration access via i386 Ports
*
* Copyright (c) 1997--2006 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/i386-ports.c
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Library
*
* Copyright (c) 1997--2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/pci.h
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Library -- ID to Name Cache
*
* Copyright (c) 2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/names-cache.c
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Library -- System-Dependent Stuff
*
* Copyright (c) 1997--2004 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):

* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/sysdep.h
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Library -- Resolving ID's via DNS
*
* Copyright (c) 2007--2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/names-net.c
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Library -- Portable interface to pread() and pwrite()
*
* Copyright (c) 1997--2003 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/pread.h
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Library -- Access to i386 I/O ports on Solaris
*
* Copyright (c) 2003 Bill Moore <billm@eng.sun.com>
* Copyright (c) 2003--2006 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/i386-io-sunos.h
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Library -- Configuration Access via /sys/bus/pci
*
*  Copyright (c) 2003 Matthew Wilcox <willy@fc.hp.com>
```

* Copyright (c) 1997--2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/sysfs.c
No license file was found, but licenses were detected in source scan.

This package contains the PCI Utilities, version @VERSION@.

Copyright (c) 1997--2008 Martin Mares <mj@ucw.cz>

All files in this package can be freely distributed and used according
to the terms of the GNU General Public License, either version 2 or
(at your opinion) any newer version. See http://www.gnu.org/ for details.

1. What's that?
~~~~~~~~~~~~~~~
The PCI Utilities package contains a library for portable access to PCI bus
configuration registers and several utilities based on this library.

In runs on the following systems:

 Linux (via /sys/bus/pci, /proc/bus/pci or i386 ports)
 FreeBSD (via /dev/pci)
 NetBSD (via libpci)
 OpenBSD (via /dev/pci)
 GNU/kFreeBSD (via /dev/pci)
 Solaris/i386 (direct port access)
 Aix (via /dev/pci and odmget)
 GNU Hurd (direct port access)
 Windows (direct port access)

It should be very easy to add support for other systems as well (volunteers
wanted; if you want to try
 that, I'll be very glad to see the patches and
include them in the next version).

The utilities include: (See manual pages for more details)

 - lspci: displays detailed information about all PCI buses and devices.

 - setpci: allows to read from and write to PCI device configuration
   registers. For example, you can adjust the latency timers with it.
   CAUTION: There is a couple of dangerous points and caveats, please read
~~~~~~~~~~~~~~~

the manual page first!

- update-pciids: download the current version of the pci.ids file.

2. Compiling and (un)installing
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Just run "make" to compile the package and then "make install" to install it.
Please note that GNU make is needed on most platforms.

If you want to change the default installation location, please override
the PREFIX variable specified in the Makefile -- e.g., you can use
"make PREFIX=/opt/pciutils install" to create a separate installation
not interfering with the rest of your system. Setting the
DESTDIR variable
will allow you to install to a different directory from the one you intend
to eventually run it from. This is useful for people who are packaging
pciutils to install on other computers.

There are several options which can be set in the Makefile or overridden
when running make:

ZLIB=yes/no Enable support for compressed pci.ids (requires zlib).
If it is enabled, pciutils will use pci.ids.gz in preference to
pci.ids, even if the pci.ids file is newer. If the pci.ids.gz
file is missing, it will use pci.ids instead. If you do not
specify this option, the configure script will try to guess
automatically based on the presence of zlib.

DNS=yes/no Enable support for querying the central database of PCI ID's
using DNS. Requires libresolv (which is available on most
systems as a part of the standard libraries) and tries to
autodetect its presence if the option is not specified.

SHARED=yes/ Build libpci as a shared library. Requires GCC 4.0 or newer.
no/local The ABI of the shared library is intended to remain backward
compatible for a long time (we use symbol versioning to achieve
that, like GNU libc does). The value `local' includes the
right directory name in the binaries, so the utilities can be
run without installation. This is not recommended for any
production builds.

"make install-lib" installs the library together with its header files
for use by other programs.

When you are bored of dumping PCI registers, just use "make uninstall".
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

3. Getting new ID's
~~~~~~~~~~~~~~~~~~~

The database of PCI ID's (the pci.ids file) gets out of date much faster
than I release new versions of this package.

If you are missing names for any of your devices or you just want to stay
on the bleeding edge, download the most recent pci.ids file from
http://pciids.sf.net/ (e.g., by running the update-ids utility).

Alternatively, you can use `lspci -q' to query the central database
for new entries via network.

If your devices
still appear as unknown, please send us their ID's and
names, the detailed instructions for submissions are listed on the
sf.net web page.

4. Getting new versions
~~~~~~~~~~~~~~~~~~~~~~~

New versions of pciutils are available at the following places:

ftp://atrey.karlin.mff.cuni.cz/pub/linux/pci/
ftp://ftp.kernel.org/pub/software/utils/pciutils/ (expect a couple of hours delay)
ftp://metalab.unc.edu/pub/Linux/hardware/ (expect a couple of days delay)

There is also a public GIT tree at:

git://git.kernel.org/pub/scm/utils/pciutils/pciutils.git

5. Using the library
~~~~~~~~~~~~~~~~~~~~

So far, there is only a little documentation for the library except for the
general introduction in the pcilib(7) man page. If you want to use the
library in your programs, please follow the comments in lib/pci.h and in
the example program example.c.

6. Feedback
~~~~~~~~~~~

If you have any bug reports or suggestions, send them to the author.

If you have any new ID's, I'll be very glad to add them
to the database, but
please take a look at http://pciids.sf.net/ first and follow the instructions.

If you want, subscribe to linux-pci@atrey.karlin.mff.cuni.cz (send

"subscribe linux-pci" to majordomo@atrey.karlin.mff.cuni.cz).
Release notes about new versions will be send to the list and problems with
the Linux PCI support will be probably discussed there, too.

7. Miscellanea
~~~~~~~~~~~~~~
You also might want to look at the pciutils web page containing release
notes and other news: http://mj.ucw.cz/pciutils.shtml .

There also exists a utility called PowerTweak which is able to fine tune
parameters of many chipsets much better than the Bridge Optimization code
in Linux kernel (already removed in 2.3.x). See http://powertweak.sf.net/
for more information.

    Have fun
      Martin

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/README
No license file was found, but licenses were detected in source scan.

/*
* The PCI Library -- NetBSD libpci access
*   (based on FreeBSD /dev/pci access)
*
* Copyright (c) 1999 Jari Kirma <kirma@cs.hut.fi>
*   Copyright (c) 2002 Quentin Garnier <cube@cubidou.net>
* Copyright (c) 2002 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/nbsd-libpci.c
No license file was found, but licenses were detected in source scan.

/*
* The PCI Library -- OpenBSD /dev/pci access
*
* Adapted from fbsd-device.c by Matthieu Herrb <matthieu.herrb@laas.fr>, 2006
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
~~~~~~~~~~~~~~

* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/obsd-device.c
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Library -- Access to i386 I/O ports on GNU Hurd
*
* Copyright (c) 2003 Marco Gerards <metgerards@student.han.nl>
* Copyright (c) 2003 Martin Mares <mj@ucw.cz>
* Copyright (c) 2006 Samuel Thibault <samuel.thibault@ens-lyon.org> and
*                    Thomas Schwinge <tschwinge@gnu.org>
* Copyright (c) 2007 Thomas Schwinge <tschwinge@gnu.org>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/i386-io-hurd.h
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Library -- ID to Name Translation
*
* Copyright (c) 1997--2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/names.c
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/names.h
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Utilities -- Manipulate PCI Configuration Registers
*
* Copyright (c) 1998--2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/setpci.c

No license file was found, but licenses were detected in source scan.

/*
* The PCI Library -- FreeBSD /dev/pci access
*
* Copyright (c) 1999 Jari Kirma <kirma@cs.hut.fi>
* Updated in 2003 by Samy Al Bahra <samy@kerneled.com>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/fbsd-device.c
No license file was found, but licenses were detected in source scan.

/*
* The PCI Library -- Parameters
*
* Copyright (c) 2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/params.c
No license file was found, but licenses were detected in source scan.

/* Getopt for GNU.
  NOTE: getopt is now part of the C library, so if you don't know what
  "Keep this file name-space clean" means, talk to roland@gnu.ai.mit.edu
  before changing it!

  Copyright (C) 1987, 88, 89, 90, 91, 92, 1993
   Free Software Foundation, Inc.

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  under the terms of the GNU General Public License as published by the
  Free Software Foundation; either version 2, or (at your option) any
  later version.

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  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License

along with this program; if not, write to the Free Software
Foundation, 675 Mass Ave, Cambridge,
MA 02139, USA. */

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/compat/getopt.c
No license file was found, but licenses were detected in source scan.

/*
* The PCI Library -- PCI Header Structure (based on <linux/pci.h>)
*
* Copyright (c) 1997--2007 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/header.h
No license file was found, but licenses were detected in source scan.

#
List of PCI ID's
#
Maintained by Martin Mares <mj@ucw.cz> and other volunteers from the
Linux PCI ID's Project at http://pciids.sf.net/.
#
New data are always welcome, especially if accurate. If you have
anything to contribute, please follow the instructions at the web site
or send a diff -u against the most recent pci.ids to pci-ids@ucw.cz.
#
This file can be distributed under either the GNU General Public License
(version 2 or higher) or the 3-clause BSD License.
#
$Id: pci.ids,v 1.58 2007/05/04 09:42:19 mares Exp $
#

Vendors, devices and subsystems. Please keep sorted.

Syntax:
vendor vendor_name
device device_name   <-- single tab
subvendor subdevice subsystem_name <-- two tabs

0000 Gammagraphx, Inc.
001a Ascend Communications, Inc.
001c PEAK-System Technik GmbH

0001 PCAN-PCI CAN-Bus controller
0033 Paradyne corp.
003d Lockheed Martin-Marietta Corp
Real TJN ID is e159,
 but they got it wrong several times --mj
0059 Tiger Jet Network Inc. (Wrong ID)
0070 Hauppauge computer works Inc.
 0003 WinTV PVR-250
 0009 WinTV PVR-150
 0801 WinTV PVR-150
 0807 WinTV PVR-150
 4000 WinTV PVR-350
 4001 WinTV PVR-250 (v1)
 4009 WinTV PVR-250
 4800 WinTV PVR-350
 4801 WinTV PVR-250 MCE
 4803 WinTV PVR-250
 8003 WinTV PVR-150
 8801 WinTV PVR-150
 c801 WinTV PVR-150
 e807 WinTV PVR-500 MCE (1st tuner)
 e817 WinTV PVR-500 MCE (2nd tuner)
0071 Nebula Electronics Ltd.
0095 Silicon Image, Inc. (Wrong ID)
 0680 Ultra ATA/133 IDE RAID CONTROLLER CARD
Wrong ID used in subsystem ID of the TELES.S0/PCI 2.x ISDN adapter
00a7 Teles AG (Wrong ID)
00f5 BFG Technologies, Inc.
0100 Ncipher Corp Ltd
0123 General Dynamics
018a is not LevelOne but there is a board misprogrammed
018a LevelOne
 0106 FPC-0106TX misprogrammed [RTL81xx]
021b is not Compaq but there is a board misprogrammed
021b Compaq Computer Corporation
 8139 HNE-300 (RealTek RTL8139c) [iPaq
 Networking]
0270 Hauppauge computer works Inc. (Wrong ID)
0291 Davicom Semiconductor, Inc.
 8212 DM9102A(DM9102AE, SM9102AF) Ethernet 100/10 MBit(Rev 40)
SpeedStream is Efficient Networks, Inc, a Siemens Company
02ac SpeedStream
 1012 1012 PCMCIA 10/100 Ethernet Card [RTL81xx]
02e0 XFX Pine Group Inc
0315 SK-Electronics Co., Ltd.
0357 TTTech AG
 000a TTP-Monitoring Card V2.0
0403 Future Technology Devices International Ltd

0432 SCM Microsystems, Inc.
 0001 Pluto2 DVB-T Receiver for PCMCIA [EasyWatch MobilSet]
045e Microsoft
 006e MN-510 802.11b wireless USB paddle
 00c2 MN-710 wireless USB paddle
0482 Kyocera
04cf Myson Century, Inc
 8818 CS8818 USB2.0-to-ATAPI Bridge Controller with Embedded PHY
050d Belkin
 001a FSD7000 802.11g PCI Wireless card
 0109 F5U409-CU USB/Serial Portable Adapter
 7050 F5D7050 802.11g Wireless USB Adapter
 705c F5D7050 v4
058f Alcor Micro Corporation
 9254 AU9254 (4-port USB hub)
05a9 OmniVision
 8519 OV519 series
05e3 CyberDoor
 0701
  CBD516
066f Sigmatel Inc.
 3410 SMTP3410
 3500 SMTP3500
0675 Dynalink
 1700 IS64PH ISDN Adapter
 1702 IS64PH ISDN Adapter
 1703 ISDN Adapter (PCI Bus, DV, W)
 1704 ISDN Adapter (PCI Bus, D, C)
067b Prolific Technology, Inc.
 2303 PL-2303 USB-to-Serial Converter
 3507 PL-3507 Hi-Speed USB & IEEE 1394 Combo to IDE Bridge Controller
069d Hughes Network Systems (HNS)
0721 Sapphire, Inc.
07ca AVerMedia Technologies Inc.
 b808 AVerTV DVB-T Volar (USB 2.0)
07e2 ELMEG Communication Systems GmbH
0842 NPG, Personal Grand Technology
08ff AuthenTec
 afe4 [Anchor] AF-S2 FingerLoc Sensor Module
Wrong ID used in subsystem ID of VIA USB controllers.
0925 VIA Technologies, Inc. (Wrong ID)
093a PixArt Imaging Inc.
 010e Innovage Mini Digital Camera
 010f SDC-300 Webcam
 2468 CIF Single Chip
 2600 PAC7311
 2603 Philips Webcam SPC500NC
 2608 Maxell MaxCam RotaWeb

09c1 Arris
0704 CM 200E Cable Modem
0a89 BREA Technologies Inc
0ace ZyDAS
1211 ZD1211 IEEE 802.11b+g
USB Adapter
0b0b Rhino Equiment Corp.
0105 Rhino R1T1
0205 Rhino R4FXO
0206 RCB4FXO 4-channel FXO analog telphony card
0305 Rhino R4T1
0405 Rhino R8FXX
0406 RCB8FXX 8-channel modular analog telphony card
0505 Rhino R24FXX
0506 RCB24FXS 24-Channel FXS analog telphony card
0605 Rhino R2T1
0705 Rhino R24FXS
0706 RCB24FXO 24-Channel FXO analog telphony card
0905 R1T3 Single T3 Digital Telephony Card
0906 RCB24FXX 24-channel modular analog telphony card
0a06 RCB672FXX 672-channel modular analog telphony card
0b49 ASCII Corporation
064f Trance Vibrator
0ccd TerraTec Electronic GmbH
0038 Cinergy T^2 DVB-T Receiver
0e11 Compaq Computer Corporation
0001 PCI to EISA Bridge
0002 PCI to ISA Bridge
0046 Smart Array 64xx
0e11 4091 Smart Array 6i
0e11 409a Smart Array 641
0e11 409b Smart Array 642
0e11 409c Smart Array 6400
0e11 409d Smart Array 6400 EM
0049 NC7132 Gigabit Upgrade Module
004a NC6136 Gigabit Server Adapter
005a Remote
Insight II board - Lights-Out
007c NC7770 1000BaseTX
007d NC6770 1000BaseTX
0085 NC7780 1000BaseTX
00b1 Remote Insight II board - PCI device
00bb NC7760
00ca NC7771
00cb NC7781
00cf NC7772
00d0 NC7782
00d1 NC7783

00e3 NC7761
0508 Netelligent 4/16 Token Ring
1000 Triflex/Pentium Bridge, Model 1000
2000 Triflex/Pentium Bridge, Model 2000
3032 QVision 1280/p
3033 QVision 1280/p
3034 QVision 1280/p
4000 4000 [Triflex]
4030 SMART-2/P
4031 SMART-2SL
4032 Smart Array 3200
4033 Smart Array 3100ES
4034 Smart Array 221
4040 Integrated Array
4048 Compaq Raid LC2
4050 Smart Array 4200
4051 Smart Array 4250ES
4058 Smart Array 431
4070 Smart Array 5300
4080 Smart Array 5i
4082 Smart Array 532
4083 Smart Array 5312
4091 Smart Array 6i
409a Smart Array 641
409b Smart Array 642
409c Smart Array 6400
409d Smart Array 6400 EM
6010 HotPlug PCI Bridge 6010
7020 USB Controller
a0ec Fibre Channel Host Controller
a0f0 Advanced System
Management Controller
a0f3 Triflex PCI to ISA Bridge
a0f7 PCI Hotplug Controller
 8086 002a PCI Hotplug Controller A
 8086 002b PCI Hotplug Controller B
a0f8 ZFMicro Chipset USB
a0fc FibreChannel HBA Tachyon
ae10 Smart-2/P RAID Controller
 0e11 4030 Smart-2/P Array Controller
 0e11 4031 Smart-2SL Array Controller
 0e11 4032 Smart Array Controller
 0e11 4033 Smart 3100ES Array Controller
ae29 MIS-L
ae2a MPC
ae2b MIS-E
ae31 System Management Controller
ae32 Netelligent 10/100 TX PCI UTP

ae33 Triflex Dual EIDE Controller
ae34 Netelligent 10 T PCI UTP
ae35 Integrated NetFlex-3/P
ae40 Netelligent Dual 10/100 TX PCI UTP
ae43 Netelligent Integrated 10/100 TX UTP
ae69 CETUS-L
ae6c Northstar
ae6d NorthStar CPU to PCI Bridge
b011 Netelligent 10/100 TX Embedded UTP
b012 Netelligent 10 T/2 PCI UTP/Coax
b01e NC3120 Fast Ethernet NIC
b01f NC3122 Fast Ethernet NIC
b02f NC1120 Ethernet NIC
b030 Netelligent 10/100 TX UTP
b04a 10/100 TX
PCI Intel WOL UTP Controller
b060 Smart Array 5300 Controller
b0c6 NC3161 Fast Ethernet NIC
b0c7 NC3160 Fast Ethernet NIC
b0d7 NC3121 Fast Ethernet NIC
b0dd NC3131 Fast Ethernet NIC
b0de NC3132 Fast Ethernet Module
b0df NC6132 Gigabit Module
b0e0 NC6133 Gigabit Module
b0e1 NC3133 Fast Ethernet Module
b123 NC6134 Gigabit NIC
b134 NC3163 Fast Ethernet NIC
b13c NC3162 Fast Ethernet NIC
b144 NC3123 Fast Ethernet NIC
b163 NC3134 Fast Ethernet NIC
b164 NC3165 Fast Ethernet Upgrade Module
b178 Smart Array 5i/532
 0e11 4080 Smart Array 5i
 0e11 4082 Smart Array 532
 0e11 4083 Smart Array 5312
b1a4 NC7131 Gigabit Server Adapter
b200 Memory Hot-Plug Controller
b203 Integrated Lights Out Controller
b204 Integrated Lights Out Processor
f130 NetFlex-3/P ThunderLAN 1.0
f150 NetFlex-3/P ThunderLAN 2.3
0e21 Cowon Systems, Inc.
0e55 HaSoTec GmbH
0eac SHF Communication Technologies AG
Formerly NCR
1000 LSI Logic / Symbios Logic
 0001 53c810
  1000

1000 LSI53C810AE PCI to SCSI I/O Processor
0002 53c820
0003 53c825
 1000 1000 LSI53C825AE PCI to SCSI I/O Processor (Ultra Wide)
0004 53c815
0005 53c810AP
0006 53c860
 1000 1000 LSI53C860E PCI to Ultra SCSI I/O Processor
000a 53c1510
 0e11 b143 Integrated Dual Channel Wide Ultra2 SCSI Controller
 1000 1000 LSI53C1510 PCI to Dual Channel Wide Ultra2 SCSI Controller (Nonintelligent mode)
000b 53C896/897
 0e11 6004 EOB003 Series SCSI host adapter
 1000 1000 LSI53C896/7 PCI to Dual Channel Ultra2 SCSI Multifunction Controller
 1000 1010 LSI22910 PCI to Dual Channel Ultra2 SCSI host adapter
 1000 1020 LSI21002 PCI to Dual Channel Ultra2 SCSI host adapter
 13e9 1000 6221L-4U (Dual U2W SCSI, dual 10/100TX, graphics)
000c 53c895
 1000 1010 LSI8951U PCI to Ultra2 SCSI host adapter
 1000 1020 LSI8952U PCI to Ultra2 SCSI host adapter
 1de1 3906 DC-390U2B SCSI adapter
 1de1 3907 DC-390U2W
000d 53c885
000f 53c875
 0e11 7004 Embedded Ultra Wide SCSI
Controller
 1000 1000 LSI53C876/E PCI to Dual Channel SCSI Controller
 1000 1010 LSI22801 PCI to Dual Channel Ultra SCSI host adapter
 1000 1020 LSI22802 PCI to Dual Channel Ultra SCSI host adapter
 1092 8760 FirePort 40 Dual SCSI Controller
 1775 10d0 V5D Single Board Computer Wide Ultra SCSI
 1775 10d1 V5D Single Board Computer Ultra SCSI
 1de1 3904 DC390F/U Ultra Wide SCSI Adapter
 4c53 1000 CC7/CR7/CP7/VC7/VP7/VR7 mainboard
 4c53 1050 CT7 mainboard
0010 53C1510
 0e11 4040 Integrated Array Controller
 0e11 4048 RAID LC2 Controller
 1000 1000 53C1510 PCI to Dual Channel Wide Ultra2 SCSI Controller (Intelligent mode)
0012 53c895a
 1000 1000 LSI53C895A PCI to Ultra2 SCSI Controller
0013 53c875a
 1000 1000 LSI53C875A PCI to Ultra SCSI Controller
0020 53c1010 Ultra3 SCSI Adapter
 1000 1000 LSI53C1010-33 PCI to Dual Channel Ultra160 SCSI Controller
 107b 1040 Server Onboard 53C1010-33
 1de1 1020 DC-390U3W
0021 53c1010 66MHz Ultra3 SCSI Adapter

1000
1000 LSI53C1000/1000R/1010R/1010-66 PCI to Ultra160 SCSI Controller
 1000 1010 Asus TR-DLS onboard 53C1010-66
 103c 1330 Ultra160 SCSI [A7059A]
 103c 1340 Ultra160 SCSI [A7060A]
 124b 1070 PMC-USCSI3
 4c53 1080 CT8 mainboard
 4c53 1300 P017 mezzanine (32-bit PMC)
 4c53 1310 P017 mezzanine (64-bit PMC)
0030 53c1030 PCI-X Fusion-MPT Dual Ultra320 SCSI
 0e11 00da ProLiant ML 350
 1028 0123 PowerEdge 2600
 1028 014a PowerEdge 1750
 1028 016c PowerEdge 1850 MPT Fusion SCSI/RAID (Perc 4)
 1028 0183 PowerEdge 1800
 1028 1010 LSI U320 SCSI Controller
 103c 12c5 Ultra320 SCSI [A7173A]
 124b 1170 PMC-USCSI320
 1734 1052 Primergy RX300 S2
0031 53c1030ZC PCI-X Fusion-MPT Dual Ultra320 SCSI
0032 53c1035 PCI-X Fusion-MPT Dual Ultra320 SCSI
 1000 1000 LSI53C1020/1030 PCI-X to Ultra320 SCSI Controller
0033 1030ZC_53c1035 PCI-X Fusion-MPT Dual Ultra320 SCSI
0040 53c1035 PCI-X Fusion-MPT Dual Ultra320 SCSI
 1000 0033 MegaRAID SCSI 320-2XR
 1000 0066
 MegaRAID SCSI 320-2XRWS
0041 53C1035ZC PCI-X Fusion-MPT Dual Ultra320 SCSI
0050 SAS1064 PCI-X Fusion-MPT SAS
0054 SAS1068 PCI-X Fusion-MPT SAS
 1028 1f09 PowerEdge 860 SAS 5i/R
0055 SAS1068 PCI-X Fusion-MPT SAS
 1033 8336 SAS1068
0056 SAS1064ET PCI-Express Fusion-MPT SAS
0057 M1064E MegaRAID SAS
0058 SAS1068E PCI-Express Fusion-MPT SAS
005a SAS1066E PCI-Express Fusion-MPT SAS
005c SAS1064A PCI-X Fusion-MPT SAS
005e SAS1066 PCI-X Fusion-MPT SAS
0060 MegaRAID SAS 1078
 1000 1006 MegaRAID SAS 8888ELP
 1000 100a MegaRAID SAS 8708ELP
 1000 100e MegaRAID SAS 8884E
 1000 100f MegaRAID SAS 8708E
 1000 1010 MegaRAID SATA 350-8ELP
 1000 1011 MegaRAID SATA 350-4ELP
 1000 1012 MegaRAID SAS 8704ELP
 1000 1016 MegaRAID SAS 8880EM2

1014 0363 MegaRAID SAS PCI Express ROMB
1014 0364 SystemX MegaRAID SAS 8808E
1014 0365 SystemX MegaRAID SAS 8884E
1014 0379 SystemX MegaRAID SAS 8880EM2
1028 1f0a PERC 6/E Adapter RAID Controller
1028 1f0b PERC
6/i Adapter RAID Controller
1028 1f0c PERC 6/i Integrated RAID Controller
1028 1f0d CERC 6/i Adapter RAID Controller
1028 1f11 CERC 6/i Integrated RAID Controller
1043 824d MegaRAID SAS PCI Express ROMB
1170 002f MegaRAID SAS PCI Express ROMB
8086 1006 RAID Controller SRCSAS28EP
8086 100a RAID Controller SRCSAS28EV
8086 1010 RAID Controller SRCSATA28E
8086 34cc Integrated RAID Controller SROMBSAS28E
8086 34cd Integrated RAID Controller SROMBSAS28E
0062 SAS1078 PCI-Express Fusion-MPT SAS
1000 0062 SAS1078 PCI-Express Fusion-MPT SAS
008f 53c875J
1092 8000 FirePort 40 SCSI Controller
1092 8760 FirePort 40 Dual SCSI Host Adapter
0407 MegaRAID
1000 0530 MegaRAID 530 SCSI 320-0X RAID Controller
1000 0531 MegaRAID 531 SCSI 320-4X RAID Controller
1000 0532 MegaRAID 532 SCSI 320-2X RAID Controller
1028 0531 PowerEdge Expandable RAID Controller 4/QC
1028 0533 PowerEdge Expandable RAID Controller 4/QC
8086 0530 MegaRAID Intel RAID Controller
SRCZCRX
8086 0532 MegaRAID Intel RAID Controller SRCU42X
0408 MegaRAID
1000 0001 MegaRAID SCSI 320-1E RAID Controller
1000 0002 MegaRAID SCSI 320-2E RAID Controller
1025 004d MegaRAID ACER ROMB-2E RAID Controller
1028 0001 PowerEdge RAID Controller PERC4e/SC
1028 0002 PowerEdge RAID Controller PERC4e/DC
1028 0012 PowerEdge RAID Controller RAC4
1028 0015 PowerEdge RAID Controller PERC5
1028 1f03 PowerEdge RAID Controller PERC5
1734 1065 FSC MegaRAID PCI Express ROMB
8086 0002 MegaRAID Intel RAID Controller SRCU42E
0409 MegaRAID
1000 3004 MegaRAID SATA 300-4X RAID Controller
1000 3008 MegaRAID SATA 300-8X RAID Controller
8086 3008 MegaRAID RAID Controller SRCS28X
8086 3431 MegaRAID RAID Controller Alief SROMBU42E
8086 3499 MegaRAID RAID Controller Harwich SROMBU42E

0411 MegaRAID SAS
1000 1001 MegaRAID SAS 8408E
1000 1002 MegaRAID SAS 8480E
1000 1003 MegaRAID SAS 8344ELP
1000 1004 MegaRAID SAS 8308ELP
1000 1008
MegaRAID SAS 84016E
1000 100c MegaRAID SATA 300-12E
1000 100d MegaRAID SATA 300-16E
1000 2004 MegaRAID SATA 300-8ELP
1000 2005 MegaRAID SATA 300-4ELP
1033 8287 MegaRAID SAS PCI Express ROMB
1054 3016 MegaRAID SAS RoMB Server
1734 1081 MegaRAID SAS PCI Express ROMB
1734 10a3 MegaRAID SAS PCI Express ROMB
8086 1001 RAID Controller SRCSAS18E
8086 1003 RAID Controller SRCSAS144E
8086 3500 SROMBSAS18E RAID Controller
8086 3501 SROMBSAS18E RAID Controller
8086 3504 SROMBSAS18E RAID Controller
0413 MegaRAID SAS Verde ZCR
1000 1005 MegaRAID SAS 8300XLP
0621 FC909 Fibre Channel Adapter
0622 FC929 Fibre Channel Adapter
1000 1020 44929 O Dual Fibre Channel card
0623 FC929 LAN
0624 FC919 Fibre Channel Adapter
0625 FC919 LAN
0626 FC929X Fibre Channel Adapter
1000 1010 7202-XP-LC Dual Fibre Channel card
0627 FC929X LAN
0628 FC919X Fibre Channel Adapter
0629 FC919X LAN
0640 FC949X Fibre Channel Adapter
0642 FC939X Fibre Channel
Adapter
0646 FC949ES Fibre Channel Adapter
0701 83C885 NT50 DigitalScape Fast Ethernet
0702 Yellowfin G-NIC gigabit ethernet
1318 0000 PEI100X
0804 SA2010
0805 SA2010ZC
0806 SA2020
0807 SA2020ZC
0901 61C102
1000 63C815
1960 MegaRAID
1000 0518 MegaRAID 518 SCSI 320-2 Controller

1000 0520 MegaRAID 520 SCSI 320-1 Controller
1000 0522 MegaRAID 522 i4 133 RAID Controller
1000 0523 MegaRAID SATA 150-6 RAID Controller
1000 4523 MegaRAID SATA 150-4 RAID Controller
1000 a520 MegaRAID ZCR SCSI 320-0 Controller
1028 0518 MegaRAID 518 DELL PERC 4/DC RAID Controller
1028 0520 MegaRAID 520 DELL PERC 4/SC RAID Controller
1028 0531 PowerEdge Expandable RAID Controller 4/QC
1028 0533 PowerEdge Expandable RAID Controller 4/QC
8086 0520 MegaRAIDRAID Controller SRCU41L
8086 0523 MegaRAID RAID Controller SRCS16
1001 Kolter Electronic
0010 PCI 1616 Measurement card with 32 digital I/O lines
0011 OPTO-PCI Opto-Isolated digital I/O board
0012 PCI-AD/DA
Analogue I/O board
0013 PCI-OPTO-RELAIS Digital I/O board with relay outputs
0014 PCI-Counter/Timer Counter Timer board
0015 PCI-DAC416 Analogue output board
0016 PCI-MFB Analogue I/O board
0017 PROTO-3 PCI Prototyping board
9100 INI-9100/9100W SCSI Host
1002 ATI Technologies Inc
3150 M24 1P [Radeon Mobility X600]
3152 M22 [Radeon Mobility X300]
3154 M24GL [Mobility FireGL V3200]
3e50 RV380 0x3e50 [Radeon X600]
3e54 RV380 0x3e54 [FireGL V3200]
3e70 RV380 [Radeon X600] (Secondary)
4136 Radeon IGP 320 M
4137 Radeon IGP330/340/350
4144 R300 AD [Radeon 9500 Pro]
4145 R300 AE [Radeon 9700 Pro]
4146 R300 AF [Radeon 9700 Pro]
4147 R300 AG [FireGL Z1/X1]
4148 R350 AH [Radeon 9800]
4149 R350 AI [Radeon 9800]
414a R350 AJ [Radeon 9800]
414b R350 AK [FireGL X2]
4150 RV350 AP [Radeon 9600]
1002 0002 R9600 Pro primary (Asus OEM for HP)
1002 0003 R9600 Pro secondary (Asus OEM for HP)
1002 4722 All-in-Wonder 2006 AGP Edition
1458 4024
Giga-Byte GV-R96128D (Primary)
148c 2064 PowerColor R96A-C3N
148c 2066 PowerColor R96A-C3N
174b 7c19 Sapphire Atlantis Radeon 9600 Pro

174b 7c29 GC-R9600PRO [Sapphire] (Primary)
17ee 2002 Radeon 9600 256Mb Primary
18bc 0101 GC-R9600PRO (Primary)
4151 RV350 AQ [Radeon 9600]
1043 c004 A9600SE
4152 RV350 AR [Radeon 9600]
1002 0002 Radeon 9600XT
1002 4772 All-in-Wonder 9600 XT
1043 c002 Radeon 9600 XT TVD
1043 c01a A9600XT/TD
174b 7c29 Sapphire Radeon 9600XT
1787 4002 Radeon 9600 XT
4153 RV350 AS [Radeon 9550]
1043 010c A9550GE/TD
1462 932c 865PE Neo2-V (MS-6788) mainboard
4154 RV350 AT [FireGL T2]
4155 RV350 AU [FireGL T2]
4156 RV350 AV [FireGL T2]
4157 RV350 AW [FireGL T2]
4158 68800AX [Mach32]
4164 R300 AD [Radeon 9500 Pro] (Secondary)
4165 R300 AE [Radeon 9700 Pro] (Secondary)
4166 R300 AF [Radeon 9700 Pro] (Secondary)
4168 Radeon R350 [Radeon 9800] (Secondary)
4170 RV350 AP [Radeon 9600] (Secondary)
1002 0003
R9600 Pro secondary (Asus OEM for HP)
1002 4723 All-in-Wonder 2006 AGP Edition (Secondary)
1458 4025 Giga-Byte GV-R96128D (Secondary)
148c 2067 PowerColor R96A-C3N (Secondary)
174b 7c28 GC-R9600PRO [Sapphire] (Secondary)
17ee 2003 Radeon 9600 256Mb (Secondary)
18bc 0100 GC-R9600PRO (Secondary)
4171 RV350 AQ [Radeon 9600] (Secondary)
1043 c005 A9600SE (Secondary)
4172 RV350 AR [Radeon 9600] (Secondary)
1002 0003 Radeon 9600XT (Secondary)
1002 4773 All-in-Wonder 9600 XT (Secondary)
1043 c003 A9600XT (Secondary)
1043 c01b A9600XT/TD (Secondary)
174b 7c28 Sapphire Radeon 9600XT (Secondary)
1787 4003 Radeon 9600 XT (Secondary)
4173 RV350 AS [Radeon 9550] (Secondary)
1043 010d A9550GE/TD (Secondary)
4237 Radeon 7000 IGP
4242 R200 BB [Radeon All in Wonder 8500DV]
1002 02aa Radeon 8500 AIW DV Edition
4243 R200 BC [Radeon All in Wonder 8500]

4336 Radeon Mobility U1
1002 4336 Pavilion ze4300 ATI Radeon Mobility U1 (IGP 320 M)
103c 0024
Pavilion ze4400 builtin Video
161f 2029 eMachines M5312 builtin Video
4337 Radeon IGP 330M/340M/350M
1014 053a ThinkPad R40e (2684-HVG) builtin VGA controller
103c 0850 Radeon IGP 345M
4341 IXP150 AC'97 Audio Controller
4345 EHCI USB Controller
4347 OHCI USB Controller #1
4348 OHCI USB Controller #2
4349 Dual Channel Bus Master PCI IDE Controller
434d IXP AC'97 Modem
4353 SMBus
4354 215CT [Mach64 CT]
4358 210888CX [Mach64 CX]
4363 SMBus
436e 436E Serial ATA Controller
4370 IXP SB400 AC'97 Audio Controller
1025 0079 Aspire 5024WLMMi
1025 0091 Aspire 5032WXMi
103c 308b MX6125
105b 0c81 Realtek ALC 653
107b 0300 MX6421
4371 IXP SB400 PCI-PCI Bridge
103c 308b MX6125
4372 IXP SB400 SMBus Controller
1025 0080 Aspire 5024WLMMi
103c 308b MX6125
4373 IXP SB400 USB2 Host Controller
1025 0080 Aspire 5024WLMMi
103c 308b MX6125
4374 IXP SB400 USB Host Controller
103c 308b MX6125
4375 IXP SB400 USB Host Controller
1025
0080 Aspire 5024WLMMi
103c 308b MX6125
4376 Standard Dual Channel PCI IDE Controller
1025 0080 Aspire 5024WLMMi
103c 308b MX6125
4377 IXP SB400 PCI-ISA Bridge
1025 0080 Aspire 5024WLMi
103c 308b MX6125
4378 SB400 AC'97 Modem Controller
1025 0080 Aspire 5024WLMMi
103c 308b MX6125

4379 4379 Serial ATA Controller
437a 437A Serial ATA Controller
 1002 4379 4379 Serial ATA Controller
 1002 437a 437A Serial ATA Controller
 14f1 8800 Leadtek WinFast TV2000XP Expert
437b SB450 HDA Audio
 1734 10b8 Realtek High Definition Audio
4380 SB600 Non-Raid-5 SATA
4381 SB600 Raid-5 SATA
4382 SB600 AC97 Audio
4383 SB600 Azalia
4384 SB600 PCI to PCI Bridge
4385 SB600 SMBus
4386 SB600 USB Controller (EHCI)
4387 SB600 USB (OHCI0)
4388 SB600 USB (OHCI1)
4389 SB600 USB (OHCI2)
438a SB600 USB (OHCI3)
438b SB600 USB (OHCI4)
438c SB600 IDE
438d SB600 PCI to LPC Bridge
438e SB600 AC97 Modem
4437 Radeon Mobility 7000 IGP
4554 210888ET [Mach64
ET]
4654 Mach64 VT
4742 3D Rage Pro AGP 1X/2X
 1002 0040 Rage Pro Turbo AGP 2X
 1002 0044 Rage Pro Turbo AGP 2X
 1002 0061 Rage Pro AIW AGP 2X
 1002 0062 Rage Pro AIW AGP 2X
 1002 0063 Rage Pro AIW AGP 2X
 1002 0080 Rage Pro Turbo AGP 2X
 1002 0084 Rage Pro Turbo AGP 2X
 1002 4742 Rage Pro Turbo AGP 2X
 1002 8001 Rage Pro Turbo AGP 2X
 1028 0082 Rage Pro Turbo AGP 2X
 1028 4082 Optiplex GX1 Onboard Display Adapter
 1028 8082 Rage Pro Turbo AGP 2X
 1028 c082 Rage Pro Turbo AGP 2X
 8086 4152 Xpert 98D AGP 2X
 8086 464a Rage Pro Turbo AGP 2X
4744 3D Rage Pro AGP 1X
 1002 4744 Rage Pro Turbo AGP
4747 3D Rage Pro
4749 3D Rage Pro
 1002 0061 Rage Pro AIW
 1002 0062 Rage Pro AIW

474c Rage XC
474d Rage XL AGP 2X
 1002 0004 Xpert 98 RXL AGP 2X
 1002 0008 Xpert 98 RXL AGP 2X
 1002 0080 Rage XL AGP 2X
 1002 0084 Xpert 98 AGP 2X
 1002 474d Rage XL AGP
 1033 806a Rage XL AGP
474e Rage XC AGP
 1002 474e Rage XC AGP
474f Rage
XL
 1002 0008 Rage XL
 1002 474f Rage XL
4750 3D Rage Pro 215GP
 1002 0040 Rage Pro Turbo
 1002 0044 Rage Pro Turbo
 1002 0080 Rage Pro Turbo
 1002 0084 Rage Pro Turbo
 1002 4750 Rage Pro Turbo
4751 3D Rage Pro 215GQ
4752 Rage XL
 0e11 001e Proliant Rage XL
 1002 0008 Rage XL
 1002 4752 Proliant Rage XL
 1002 8008 Rage XL
 1028 00ce PowerEdge 1400
 1028 00d1 PowerEdge 2550
 1028 00d9 PowerEdge 2500
 1028 0134 PowerEdge 600SC
 103c 10e1 NetServer Rage XL
 107b 6400 6400 Server
 1734 007a Primergy RX300
 8086 3411 SDS2 Mainboard
 8086 3427 S875WP1-E mainboard
 8086 5744 S845WD1-E mainboard
4753 Rage XC
 1002 4753 Rage XC
4754 3D Rage I/II 215GT [Mach64 GT]
4755 3D Rage II+ 215GTB [Mach64 GTB]
4756 3D Rage IIC 215IIC [Mach64 GT IIC]
 1002 4756 Rage IIC
4757 3D Rage IIC AGP
 1002 4757 Rage IIC AGP
 1028 0089 Rage 3D IIC
 1028 008e PowerEdge 1300 onboard video
 1028 4082 Rage 3D IIC
 1028 8082 Rage 3D IIC

1028 c082 Rage
3D IIC
4758 210888GX [Mach64 GX]
4759 3D Rage IIC
475a 3D Rage IIC AGP
1002 0084 Rage 3D Pro AGP 2x XPERT 98
1002 0087 Rage 3D IIC
1002 475a Rage IIC AGP
4964 Radeon RV250 Id [Radeon 9000]
4965 Radeon RV250 Ie [Radeon 9000]
4966 Radeon RV250 If [Radeon 9000]
10f1 0002 RV250 If [Tachyon G9000 PRO]
148c 2039 RV250 If [Radeon 9000 Pro "Evil Commando"]
1509 9a00 RV250 If [Radeon 9000 "AT009"]
1681 0040 RV250 If [3D prophet 9000]
174b 7176 RV250 If [Sapphire Radeon 9000 Pro]
174b 7192 RV250 If [Radeon 9000 "Atlantis"]
17af 2005 RV250 If [Excalibur Radeon 9000 Pro]
17af 2006 RV250 If [Excalibur Radeon 9000]
4967 Radeon RV250 Ig [Radeon 9000]
496e Radeon RV250 [Radeon 9000] (Secondary)
4a48 R420 JH [Radeon X800]
4a49 R420 JI [Radeon X800PRO]
4a4a R420 JJ [Radeon X800SE]
4a4b R420 JK [Radeon X800]
4a4c R420 JL [Radeon X800]
4a4d R420 JM [FireGL X3]
4a4e M18 JN [Radeon Mobility 9800]
4a50 R420 JP [Radeon X800XT]
4a54 R420 [Radeon
X800 VE]
4a69 R420 [Radeon X800 PRO/GTO] (Secondary)
4a6a R420 [Radeon X800] (Secondary)
4a6b R420 [Radeon X800] (Secondary)
4a70 R420 [X800XT-PE] (Secondary)
4a74 R420 [Radeon X800 VE] (Secondary)
4b49 R480 [Radeon X850XT]
4b4b R480 [Radeon X850Pro]
4b4c R481 [Radeon X850XT-PE]
4b69 R480 [Radeon X850XT] (Secondary)
4b6b R480 [Radeon X850Pro] (Secondary)
4b6c R481 [Radeon X850XT-PE] (Secondary)
4c42 3D Rage LT Pro AGP-133
0e11 b0e7 Rage LT Pro (Compaq Presario 5240)
0e11 b0e8 Rage 3D LT Pro
0e11 b10e 3D Rage LT Pro (Compaq Armada 1750)
1002 0040 Rage LT Pro AGP 2X
1002 0044 Rage LT Pro AGP 2X

1002 4c42 Rage LT Pro AGP 2X
1002 8001 Rage LT Pro AGP 2X
1028 0085 Rage 3D LT Pro
4c44 3D Rage LT Pro AGP-66
4c45 Rage Mobility M3 AGP
4c46 Rage Mobility M3 AGP 2x
1028 00b1 Latitude C600
4c47 3D Rage LT-G 215LG
4c49 3D Rage LT Pro
1002 0004 Rage LT Pro
1002 0040 Rage LT Pro
1002 0044 Rage LT Pro
1002 4c49 Rage LT Pro
4c4d
Rage Mobility P/M AGP 2x
0e11 b111 Armada M700
0e11 b160 Armada E500
1002 0084 Xpert 98 AGP 2X (Mobility)
1014 0154 ThinkPad A20m/A21m
1028 00aa Latitude CPt
1028 00bb Latitude CPx
10e1 10cf Fujitsu Siemens LifeBook C Series
1179 ff00 Satellite 1715XCDS laptop
13bd 1019 PC-AR10
4c4e Rage Mobility L AGP 2x
4c50 3D Rage LT Pro
1002 4c50 Rage LT Pro
4c51 3D Rage LT Pro
4c52 Rage Mobility P/M
1033 8112 Versa Note VXi
4c53 Rage Mobility L
4c54 264LT [Mach64 LT]
4c57 Radeon Mobility M7 LW [Radeon Mobility 7500]
1014 0517 ThinkPad T30
1028 00e6 Radeon Mobility M7 LW (Dell Inspiron 8100)
1028 012a Latitude C640
1043 1622 Mobility Radeon M7 (L3C/S)
144d c006 Radeon Mobility M7 LW in vpr Matrix 170B4
4c58 Radeon RV200 LX [Mobility FireGL 7800 M7]
4c59 Radeon Mobility M6 LY
0e11 b111 Evo N600c
1014 0235 ThinkPad A30/A30p (2652/2653)
1014 0239 ThinkPad X22/X23/X24
104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
104d
8140 PCG-Z1SP laptop
1509 1930 Medion MD9703
4c5a Radeon Mobility M6 LZ

4c64 Radeon R250 Ld [Radeon Mobility 9000 M9]
4c65 Radeon R250 Le [Radeon Mobility 9000 M9]
4c66 Radeon R250 [Mobility FireGL 9000]
1014 054d Thinkpad T41
4c67 Radeon R250 Lg [Radeon Mobility 9000 M9]
Secondary chip to the Lf
4c6e Radeon R250 Ln [Radeon Mobility 9000 M9] (Secondary)
4d46 Rage Mobility M4 AGP
4d4c Rage Mobility M4 AGP
4e44 Radeon R300 ND [Radeon 9700 Pro]
1002 515e Radeon ES1000
1002 5965 Radeon ES1000
4e45 Radeon R300 NE [Radeon 9500 Pro]
1002 0002 Radeon R300 NE [Radeon 9500 Pro]
1681 0002 Hercules 3D Prophet 9500 PRO [Radeon 9500 Pro]
4e46 RV350 NF [Radeon 9600]
4e47 Radeon R300 NG [FireGL X1]
4e48 Radeon R350 [Radeon 9800 Pro]
4e49 Radeon R350 [Radeon 9800]
4e4a RV350 NJ [Radeon 9800 XT]
4e4b R350 NK [FireGL X2]
4e50 RV350 [Mobility Radeon 9600 M10]
1025 005a TravelMate 290
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
144d
c00c P35 notebook
1462 0311 MSI M510A
1734 1055 Amilo M1420W
4e51 M10 NQ [Radeon Mobility 9600]
4e52 RV350 [Mobility Radeon 9600 M10]
144d c00c P35 notebook
4e53 M10 NS [Radeon Mobility 9600]
4e54 M10 NT [FireGL Mobility T2]
4e56 M11 NV [FireGL Mobility T2e]
4e64 Radeon R300 [Radeon 9700 Pro] (Secondary)
4e65 Radeon R300 [Radeon 9500 Pro] (Secondary)
1002 0003 Radeon R300 NE [Radeon 9500 Pro]
1681 0003 Hercules 3D Prophet 9500 PRO [Radeon 9500 Pro] (Secondary)
4e66 RV350 NF [Radeon 9600] (Secondary)
4e67 Radeon R300 [FireGL X1] (Secondary)
4e68 Radeon R350 [Radeon 9800 Pro] (Secondary)
4e69 Radeon R350 [Radeon 9800] (Secondary)
4e6a RV350 NJ [Radeon 9800 XT] (Secondary)
1002 4e71 M10 NQ [Radeon Mobility 9600]
4e71 M10 NQ [Radeon Mobility 9600] (Secondary)
4f72 RV250 [Radeon 9000 Series]
4f73 Radeon RV250 [Radeon 9000 Series] (Secondary)

5041 Rage 128 PA/PRO
5042 Rage 128 PB/PRO AGP 2x
5043 Rage 128 PC/PRO AGP 4x
5044
Rage 128 PD/PRO TMDS
 1002 0028 Rage 128 AIW
 1002 0029 Rage 128 AIW
5045 Rage 128 PE/PRO AGP 2x TMDS
5046 Rage 128 PF/PRO AGP 4x TMDS
 1002 0004 Rage Fury Pro
 1002 0008 Rage Fury Pro/Xpert 2000 Pro
 1002 0014 Rage Fury Pro
 1002 0018 Rage Fury Pro/Xpert 2000 Pro
 1002 0028 Rage 128 Pro AIW AGP
 1002 002a Rage 128 Pro AIW AGP
 1002 0048 Rage Fury Pro
 1002 2000 Rage Fury MAXX AGP 4x (TMDS) (VGA device)
 1002 2001 Rage Fury MAXX AGP 4x (TMDS) (Extra device?!)
5047 Rage 128 PG/PRO
5048 Rage 128 PH/PRO AGP 2x
5049 Rage 128 PI/PRO AGP 4x
504a Rage 128 PJ/PRO TMDS
504b Rage 128 PK/PRO AGP 2x TMDS
504c Rage 128 PL/PRO AGP 4x TMDS
504d Rage 128 PM/PRO
504e Rage 128 PN/PRO AGP 2x
504f Rage 128 PO/PRO AGP 4x
5050 Rage 128 PP/PRO TMDS [Xpert 128]
 1002 0008 Xpert 128
5051 Rage 128 PQ/PRO AGP 2x TMDS
5052 Rage 128 PR/PRO AGP 4x TMDS
5053 Rage 128 PS/PRO
5054 Rage 128 PT/PRO AGP 2x
5055 Rage 128 PU/PRO AGP 4x
5056 Rage 128 PV/PRO TMDS
5057
 Rage 128 PW/PRO AGP 2x TMDS
5058 Rage 128 PX/PRO AGP 4x TMDS
5144 Radeon R100 QD [Radeon 7200]
 1002 0008 Radeon 7000/Radeon VE
 1002 0009 Radeon 7000/Radeon
 1002 000a Radeon 7000/Radeon
 1002 001a Radeon 7000/Radeon
 1002 0029 Radeon AIW
 1002 0038 Radeon 7000/Radeon
 1002 0039 Radeon 7000/Radeon
 1002 008a Radeon 7000/Radeon
 1002 00ba Radeon 7000/Radeon

1002 0139 Radeon 7000/Radeon
1002 028a Radeon 7000/Radeon
1002 02aa Radeon AIW
1002 053a Radeon 7000/Radeon
5145 Radeon R100 QE
5146 Radeon R100 QF
5147 Radeon R100 QG
5148 Radeon R200 QH [Radeon 8500]
1002 010a FireGL 8800 64Mb
1002 0152 FireGL 8800 128Mb
1002 0162 FireGL 8700 32Mb
1002 0172 FireGL 8700 64Mb
5149 Radeon R200 QI
514a Radeon R200 QJ
514b Radeon R200 QK
514c Radeon R200 QL [Radeon 8500 LE]
1002 003a Radeon R200 QL [Radeon 8500 LE]
1002 013a Radeon 8500
148c 2026 R200 QL [Radeon 8500 Evil Master II Multi Display Edition]
1681 0010 Radeon 8500
[3D Prophet 8500 128Mb]
174b 7149 Radeon R200 QL [Sapphire Radeon 8500 LE]
514d Radeon R200 QM [Radeon 9100]
514e Radeon R200 QN [Radeon 8500LE]
514f Radeon R200 QO [Radeon 8500LE]
5154 R200 QT [Radeon 8500]
5155 R200 QU [Radeon 9100]
5157 Radeon RV200 QW [Radeon 7500]
1002 013a Radeon 7500
1002 103a Dell Optiplex GX260
1458 4000 RV200 QW [RADEON 7500 PRO MAYA AR]
148c 2024 RV200 QW [Radeon 7500LE Dual Display]
148c 2025 RV200 QW [Radeon 7500 Evil Master Multi Display Edition]
148c 2036 RV200 QW [Radeon 7500 PCI Dual Display]
174b 7146 RV200 QW [Radeon 7500 LE]
174b 7147 RV200 QW [Sapphire Radeon 7500LE]
174b 7161 Radeon RV200 QW [Radeon 7500 LE]
17af 0202 RV200 QW [Excalibur Radeon 7500LE]
5158 Radeon RV200 QX [Radeon 7500]
5159 Radeon RV100 QY [Radeon 7000/VE]
1002 000a Radeon 7000/Radeon VE
1002 000b Radeon 7000
1002 0038 Radeon 7000/Radeon VE
1002 003a Radeon 7000/Radeon VE
1002 00ba Radeon 7000/Radeon VE
1002 013a
Radeon 7000/Radeon VE
1002 0908 XVR-100 (supplied by Sun)

```
# The IBM card doubles as an ATI PCI video adapter
	1014 029a  Remote Supervisor Adapter II (RSA2)
	1014 02c8  eServer xSeries server mainboard
	1028 019a  PowerEdge SC1425
	103c 1292  Radeon 7000
	1458 4002  RV100 QY [RADEON 7000 PRO MAYA AV Series]
	148c 2003  RV100 QY [Radeon 7000 Multi-Display Edition]
	148c 2023  RV100 QY [Radeon 7000 Evil Master Multi-Display]
	174b 7112  RV100 QY [Sapphire Radeon VE 7000]
	174b 7c28  Sapphire Radeon VE 7000 DDR
	1787 0202  RV100 QY [Excalibur Radeon 7000]
	17ee 1001  Radeon 7000 64MB DDR + DVI
5159  Radeon RV100 QZ [Radeon 7000/VE]
515e  ES1000
515f  ES1000
5168  Radeon R200 Qh
5169  Radeon R200 Qi
516a  Radeon R200 Qj
516b  Radeon R200 Qk
# This one is not in ATI documentation, but is in XFree86 source code
516c  Radeon R200 Ql
5245  Rage 128 RE/SG
	1002 0008  Xpert 128
	1002 0028  Rage 128 AIW
	1002 0029  Rage 128 AIW
	1002 0068  Rage 128 AIW
5246  Rage 128
RF/SG AGP
	1002 0004  Magnum/Xpert 128/Xpert 99
	1002 0008  Magnum/Xpert128/X99/Xpert2000
	1002 0028  Rage 128 AIW AGP
	1002 0044  Rage Fury/Xpert 128/Xpert 2000
	1002 0068  Rage 128 AIW AGP
	1002 0448  Rage Fury
5247  Rage 128 RG
524b  Rage 128 RK/VR
524c  Rage 128 RL/VR AGP
	1002 0008  Xpert 99/Xpert 2000
	1002 0088  Xpert 99
5345  Rage 128 SE/4x
5346  Rage 128 SF/4x AGP 2x
	1002 0048  RAGE 128 16MB VGA TVOUT AMC PAL
5347  Rage 128 SG/4x AGP 4x
5348  Rage 128 SH
534b  Rage 128 SK/4x
534c  Rage 128 SL/4x AGP 2x
534d  Rage 128 SM/4x AGP 4x
	1002 0008  Xpert 99/Xpert 2000
```

1002 0018 Xpert 2000
534e Rage 128 4x
5354 Mach 64 VT
1002 5654 Mach 64 reference
5446 Rage 128 Pro Ultra TF
1002 0004 Rage Fury Pro
1002 0008 Rage Fury Pro/Xpert 2000 Pro
1002 0018 Rage Fury Pro/Xpert 2000 Pro
1002 0028 Rage 128 AIW Pro AGP
1002 0029 Rage 128 AIW
1002 002a Rage 128 AIW Pro AGP
1002 002b Rage 128 AIW
1002 0048 Xpert 2000 Pro
544c Rage 128 Pro Ultra
TL
5452 Rage 128 Pro Ultra TR
1002 001c Rage 128 Pro 4XL
103c 1279 Rage 128 Pro 4XL
5453 Rage 128 Pro Ultra TS
5454 Rage 128 Pro Ultra TT
5455 Rage 128 Pro Ultra TU
5460 M22 [Mobility Radeon X300]
1775 1100 CR11/VR11 Single Board Computer
5462 M24 [Radeon Mobility X600]
5464 M22 [FireGL GL]
5548 R423 UH [Radeon X800 (PCIE)]
5549 R423 UI [Radeon X800PRO (PCIE)]
554a R423 UJ [Radeon X800LE (PCIE)]
554b R423 UK [Radeon X800SE (PCIE)]
554d R430 [Radeon X800 XL] (PCIe)
554f R430 [Radeon X800 (PCIE)]
5550 R423 [FireGL V7100]
5551 R423 [FireGL V5100 (PCIE)]
5552 R423 UR [FireGL V5100 (PCIE)]
5554 R423 UT [FireGL V7100 (PCIE)]
5569 R423 UI [Radeon X800PRO (PCIE)] (Secondary)
556b Radeon R423 UK (PCIE) [X800 SE] (Secondary)
556d R430 [Radeon X800 XL] (PCIe) (Secondary)
556f R430 [Radeon X800] (PCIE) (Secondary)
5571 R423GL-SE [FireGL V5100 (PCIE)] (Secondary)
564a M26 [Mobility FireGL V5000]
564b M26 [Mobility FireGL V5000]
564f M26
[Radeon Mobility X700 XL (PCIE)]
5652 M26 [Radeon Mobility X700]
5653 Radeon Mobility X700 (PCIE)
1025 0080 Aspire 5024WLMi
5654 264VT [Mach64 VT]

1002 5654 Mach64VT Reference
5655 264VT3 [Mach64 VT3]
5656 264VT4 [Mach64 VT4]
5830 RS300 Host Bridge
5831 RS300 Host Bridge
5832 RS300 Host Bridge
5833 Radeon 9100 IGP Host Bridge
5834 Radeon 9100 IGP
5835 RS300M AGP [Radeon Mobility 9100IGP]
5838 Radeon 9100 IGP AGP Bridge
5940 RV280 [Radeon 9200 PRO] (Secondary)
17af 2021 Excalibur Radeon 9250 (Secondary)
5941 RV280 [Radeon 9200] (Secondary)
1458 4019 Gigabyte Radeon 9200
174b 7c12 Sapphire Radeon 9200
17af 200d Excalibur Radeon 9200
18bc 0050 GeXcube GC-R9200-C3 (Secondary)
5944 RV280 [Radeon 9200 SE (PCI)]
5950 RS480 Host Bridge
1025 0080 Aspire 5024WLMMi
103c 308b MX6125
5951 Radeon Xpress 200 (RS480/RS482/RX480/RX482) Chipset - Host bridge
5952 RD580 [CrossFire Xpress 3200] Chipset Host Bridge
5954 RS480 [Radeon Xpress
200G Series]
1002 5954 RV370 [Radeon Xpress 200G Series]
5955 Radeon XPRESS 200M 5955 (PCIE)
1002 5955 RS480 0x5955 [Radeon XPRESS 200M 5955 (PCIE)]
103c 308b MX6125
5960 RV280 [Radeon 9200 PRO]
17af 2020 Excalibur Radeon 9250
5961 RV280 [Radeon 9200]
1002 2f72 All-in-Wonder 9200 Series
1019 4c30 Radeon 9200 VIVO
12ab 5961 YUAN SMARTVGA Radeon 9200
1458 4018 Gigabyte Radeon 9200
174b 7c13 Sapphire Radeon 9200
17af 200c Excalibur Radeon 9200
18bc 0050 Radeon 9200 Game Buster
18bc 0051 GeXcube GC-R9200-C3
18bc 0053 Radeon 9200 Game Buster VIVO
5962 RV280 [Radeon 9200]
5964 RV280 [Radeon 9200 SE]
1002 5964 Radeon 9200 SE, 64-bit 128MB DDR, 200/166MHz
1043 c006 ASUS Radeon 9200 SE / TD / 128M
1458 4018 Radeon 9200 SE
1458 4032 Radeon 9200 SE 128MB
147b 6191 R9200SE-DT

148c 2073 CN-AG92E
174b 7c13 Sapphire Radeon 9200 SE
1787 5964 Excalibur 9200SE VIVO 128M
17af 2012 Radeon 9200 SE Excalibur
18bc 0170 Sapphire Radeon
9200 SE 128MB Game Buster
18bc 0173 GC-R9200L(SE)-C3H [Radeon 9200 Game Buster]
5969 ES1000
5974 RS482 [Radeon Xpress 200]
5975 RS485 [Radeon Xpress 1100 IGP]
5a33 Radeon Xpress 200 Host Bridge
5a34 RS480 PCI-X Root Port
Comes in pair with 5a3f
5a36 RS480 PCI Bridge
5a37 RS480 PCI Bridge
5a38 RS480 PCI Bridge
Comes in pair with 5a38
5a39 RS480 PCI Bridge
5a3f RS480 PCI Bridge
5a41 RS400 [Radeon Xpress 200]
5a42 RS400 [Radeon Xpress 200M]
5a61 RC410 [Radeon Xpress 200]
5a62 RC410 [Radeon Xpress 200M]
5b60 RV370 5B60 [Radeon X300 (PCIE)]
1043 002a Extreme AX300SE-X
1043 032e Extreme AX300/TD
1462 0400 RX300SE-TD128E (MS-8940 REV:200)
1462 0402 RX300SE-TD128E (MS-8940)
196d 1086 X300SE HM
5b62 RV380 [Radeon X600 (PCIE)]
5b63 RV370 [Sapphire X550 Silent]
5b64 RV370 5B64 [FireGL V3100 (PCIE)]
5b65 RV370 5B65 [FireGL D1100 (PCIE)]
5b70 RV370 [Radeon X300SE]
1462 0403 RX300SE-TD128E (MS-8940) (secondary display)
196d 1087
X300SE HM
5b72 RV380 [Radeon X600]
5b73 RV370 secondary [Sapphire X550 Silent]
5b74 RV370 5B64 [FireGL V3100 (PCIE)] (Secondary)
5c61 M9+ 5C61 [Radeon Mobility 9200 (AGP)]
5c63 M9+ 5C63 [Radeon Mobility 9200 (AGP)]
1002 5c63 Apple iBook G4 2004
144d c00c P30 notebook
5d44 RV280 [Radeon 9200 SE] (Secondary)
1458 4019 Radeon 9200 SE (Secondary)
1458 4032 Radeon 9200 SE 128MB
147b 6190 R9200SE-DT (Secondary)

174b 7c12 Sapphire Radeon 9200 SE (Secondary)
1787 5965 Excalibur 9200SE VIVO 128M (Secondary)
17af 2013 Radeon 9200 SE Excalibur (Secondary)
18bc 0171 Radeon 9200 SE 128MB Game Buster (Secondary)
18bc 0172 GC-R9200L(SE)-C3H [Radeon 9200 Game Buster]
5d48 M28 [Radeon Mobility X800XT]
5d49 M28 [Mobility FireGL V5100]
5d4a Mobility Radeon X800
5d4d R480 [Radeon X850XT Platinum (PCIE)]
5d4f R480 [Radeon X800 GTO (PCIE)]
5d52 R480 [Radeon X850XT (PCIE)] (Primary)
1002 0b12 PowerColor X850XT PCIe (Primary)
1002 0b13 PowerColor
X850XT PCIe (Secondary)
5d57 R423 5F57 [Radeon X800XT (PCIE)]
5d6d R480 [Radeon X850XT Platinum (PCIE)] (Secondary)
5d6f R480 [Radeon X800 GTO (PCIE)] (Secondary)
5d72 R480 [Radeon X850XT (PCIE)] (Secondary)
5d77 R423 5F57 [Radeon X800XT (PCIE)] (Secondary)
5e48 RV410 [FireGL V5000]
5e49 RV410 [FireGL V3300]
5e4a RV410 [Radeon X700XT]
5e4b RV410 [Radeon X700 Pro (PCIE)]
5e4c RV410 [Radeon X700SE]
5e4d RV410 [Radeon X700 (PCIE)]
148c 2116 PowerColor Bravo X700
5e4f RV410 [Radeon X700]
5e6b RV410 [Radeon X700 Pro (PCIE)] (Secondary)
5e6d RV410 [Radeon X700 (PCIE)] (Secondary)
148c 2117 PowerColor Bravo X700
5f57 R423 [Radeon X800XT (PCIE)]
700f PCI Bridge [IGP 320M]
7010 PCI Bridge [IGP 340M]
7100 R520 [Radeon X1800]
7102 M58 [Radeon Mobility X1800]
7103 M58 [Mobility FireGL V7200]
7104 R520GL [FireGL V7200] (Primary)
7105 R520 [FireGL]
7106 M58 [Mobility FireGL V7100]
7108 M58 [Radeon Mobility X1800]
7109 R520 [Radeon X1800]
1002
0322 All-in-Wonder X1800XL
1002 0d02 Radeon X1800 CrossFire Edition
710a R520 [Radeon X1800]
710b R520 [Radeon X1800]
710c R520 [Radeon X1800]
7120 R520 [Radeon X1800] (Secondary)

7124 R520GL [FireGL V7200] (Secondary)
7129 R520 [Radeon X1800] (Secondary)
 1002 0323 All-in-Wonder X1800XL (Secondary)
 1002 0d03 Radeon X1800 CrossFire Edition (Secondary)
7140 RV515 [Radeon X1600]
7142 RV515 PRO [Radeon X1300/X1550 Series]
 1002 0322 All-in-Wonder 2006 PCI-E Edition
7143 RV505 [Radeon X1550 Series]
7145 Radeon Mobility X1400
7146 RV515 [Radeon X1300]
 1002 0322 All-in-Wonder 2006 PCI-E Edition
7147 RV505 [Radeon X1550 64-bit]
7149 M52 [Mobility Radeon X1300]
714a M52 [Mobility Radeon X1300]
714b M52 [Mobility Radeon X1300]
714c M52 [Mobility Radeon X1300]
714d RV515 [Radeon X1300]
714e RV515LE [Radeon X1300]
7152 RV515GL [FireGL V3300] (Primary)
7153 RV515GL [FireGL V3350]
715e RV515 [Radeon X1300]
715f RV505 CE [Radeon X1550 64-bit]
7162
 RV515 PRO [Radeon X1300/X1550 Series] (Secondary)
 1002 0323 All-in-Wonder 2006 PCI-E Edition (Secondary)
7166 RV515 [Radeon X1300] (Secondary)
 1002 0323 All-in-Wonder 2006 PCI-E Edition (Secondary)
716e RV515LE [Radeon X1300] Secondary
7172 RV515GL [FireGL V3300] (Secondary)
7173 RV515GL [FireGL V3350] (Secondary)
7180 RV516 [Radeon X1300/X1550 Series]
7181 RV516 XT Radeon X1600 Series (Primary)
7183 RV516 [Radeon X1300/X1550 Series]
7187 RV516 [Radeon X1300/X1550 Series]
7188 M64-S [Mobility Radeon X2300]
718a Mobility Radeon X2300
718c M62CSP64 [Mobility Radeon X1350]
718d M64CSP128 [Mobility Radeon X1450]
7193 RV516 [Radeon X1550 Series]
719b FireMV 2250
719f RV516LE [Radeon X1550 64-bit]
71a0 RV516 [Radeon X1300/X1550 Series] (Secondary)
71a1 RV516 XT Radeon X1600 Series (Secondary)
71a3 RV516 [Radeon X1300 Pro] (Secondary)
71a7 RV516 [Radeon X1300/X1550 Series] (Secondary)
71bb FireMV 2250 (Secondary)
71c0 RV530 [Radeon X1600]
71c2

RV530 [Radeon X1600]
71c4 M56GL [Mobility FireGL V5200]
17aa 2007 ThinkPad T60p
71c5 M56P [Radeon Mobility X1600]
71c6 RV530LE [Radeon X1600/X1650 PRO]
71c7 RV535 [Radeon X1650 Series]
71ce RV530LE [Radeon X1600]
71d4 M56GL [Mobility FireGL V5250]
71d5 M66-P [Mobility Radeon X1700]
71d6 M66-XT [Mobility Radeon X1700]
71de RV530LE [Radeon X1600]
71e0 RV530 [Radeon X1600] (Secondary)
71e2 RV530 [Radeon X1600] (Secondary)
71e6 RV530LE [Radeon X1650 PRO] (Secondary)
71e7 RV535 [Radeon X1650 Series]
7210 M71 [Mobility Radeon X2100]
7211 M71 [Mobility Radeon X2100] (Secondary)
7240 R580 [Radeon X1900]
7241 R580 [Radeon X1900]
7242 R580 [Radeon X1900]
7243 R580 [Radeon X1900]
7244 R580 [Radeon X1900]
7245 R580 [Radeon X1900]
7246 R580 [Radeon X1900]
7247 R580 [Radeon X1900]
7248 R580 [Radeon X1900]
7249 R580 [Radeon X1900 XT] (Primary)
724a R580 [Radeon X1900]
724b R580 [Radeon X1900]
1002 0b12 Radeon X1900 (Primary)
1002
0b13 Radeon X1900 (Secondary)
724c R580 [Radeon X1900]
724d R580 [Radeon X1900]
724e R580 [AMD Stream Processor]
7269 R580 [Radeon X1900 XT] (Secondary)
726b R580 [Radeon X1900]
726e R580 [AMD Stream Processor] (Secondary)
7280 Radeon X1950 Pro (Primary) (PCIE)
7288 Radeon X1950 GT
7291 Radeon X1650 XT (Primary) (PCIE)
7293 Radeon X1650 Series
72a0 Radeon X1950 Pro (Secondary) (PCIE)
72a8 Radeon X1950 GT (Secondary)
72b1 Radeon X1650 XT (Secondary) (PCIE)
72b3 Radeon X1650 Series (Secondary)
7833 Radeon 9100 IGP Host Bridge
7834 Radeon 9100 PRO IGP

7835 Radeon Mobility 9200 IGP
7838 Radeon 9100 IGP PCI/AGP Bridge
7919 Radeon X1200 Series Audio Controller
791e Radeon X1200 Series
791f Radeon X1200 Series
793f Radeon X1200 Series (Secondary)
7c37 RV350 AQ [Radeon 9600 SE]
cab0 AGP Bridge [IGP 320M]
cab2 RS200/RS200M AGP Bridge [IGP 340M]
cab3 R200 AGP Bridge [Mobility Radeon 7000 IGP]
cbb2 RS200/RS200M AGP Bridge [IGP 340M]
1003 ULSI
Systems
0201 US201
1004 VLSI Technology Inc
0005 82C592-FC1
0006 82C593-FC1
0007 82C594-AFC2
0008 82C596/7 [Wildcat]
0009 82C597-AFC2
000c 82C541 [Lynx]
000d 82C543 [Lynx]
0101 82C532
0102 82C534 [Eagle]
0103 82C538
0104 82C535
0105 82C147
0200 82C975
0280 82C925
0304 QSound ThunderBird PCI Audio
1004 0304 QSound ThunderBird PCI Audio
122d 1206 DSP368 Audio
1483 5020 XWave Thunder 3D Audio
0305 QSound ThunderBird PCI Audio Gameport
1004 0305 QSound ThunderBird PCI Audio Gameport
122d 1207 DSP368 Audio Gameport
1483 5021 XWave Thunder 3D Audio Gameport
0306 QSound ThunderBird PCI Audio Support Registers
1004 0306 QSound ThunderBird PCI Audio Support Registers
122d 1208 DSP368 Audio Support Registers
1483 5022 XWave Thunder 3D Audio Support Registers
0307 Thunderbird
0308 Thunderbird
0702 VAS96011 [Golden Gate II]
0703 Tollgate
1005 Avance Logic Inc. [ALI]
2064 ALG2032/2064
2128 ALG2364A

2301 ALG2301
2302
ALG2302
2364 ALG2364
2464 ALG2364A
2501 ALG2564A/25128A
1006 Reply Group
1007 NetFrame Systems Inc
1008 Epson
100a Phoenix Technologies
100b National Semiconductor Corporation
0001 DP83810
0002 87415/87560 IDE
000e 87560 Legacy I/O
000f FireWire Controller
0011 NS87560 National PCI System I/O
0012 USB Controller
0020 DP83815 (MacPhyter) Ethernet Controller
103c 0024 Pavilion ze4400 builtin Network
12d9 000c Aculab E1/T1 PMXc cPCI carrier card
1385 f311 FA311 / FA312 (FA311 with WoL HW)
0021 PC87200 PCI to ISA Bridge
0022 DP83820 10/100/1000 Ethernet Controller
0028 Geode GX2 Host Bridge
002a CS5535 South Bridge
002b CS5535 ISA bridge
002d CS5535 IDE
002e CS5535 Audio
002f CS5535 USB
0030 Geode GX2 Graphics Processor
0035 DP83065 [Saturn] 10/100/1000 Ethernet Controller
0500 SCx200 Bridge
0501 SCx200 SMI
0502 SCx200, SC1100 IDE controller
100b 0502 IDE Controller
0503 SCx200, SC1100 Audio Controller
100b 0503 XpressAudio
controller
0504 SCx200 Video
0505 SCx200 XBus
0510 SC1100 Bridge
100b 0500 GPIO and LPC support bridge
0511 SC1100 SMI & ACPI
100b 0501 SC1100 SMI & ACPI bridge
0515 SC1100 XBus
100b 0505 SC1100 PCI to XBus bridge
d001 87410 IDE
100c Tseng Labs Inc

3202 ET4000/W32p rev A
3205 ET4000/W32p rev B
3206 ET4000/W32p rev C
3207 ET4000/W32p rev D
3208 ET6000
4702 ET6300
100d AST Research Inc
100e Weitek
9000 P9000 Viper
9001 P9000 Viper
9002 P9000 Viper
9100 P9100 Viper Pro/SE
1010 Video Logic, Ltd.
1011 Digital Equipment Corporation
0001 DECchip 21050
0002 DECchip 21040 [Tulip]
0004 DECchip 21030 [TGA]
0007 NVRAM [Zephyr NVRAM]
0008 KZPSA [KZPSA]
0009 DECchip 21140 [FasterNet]
1025 0310 21140 Fast Ethernet
10b8 2001 SMC9332BDT EtherPower 10/100
10b8 2002 SMC9332BVT EtherPower T4 10/100
10b8 2003 SMC9334BDT EtherPower 10/100 (1-port)
1109 2400 ANA-6944A/TX Fast Ethernet
1112 2300 RNS2300 Fast Ethernet
1112 2320 RNS2320
Fast Ethernet
1112 2340 RNS2340 Fast Ethernet
1113 1207 EN-1207-TX Fast Ethernet
1186 1100 DFE-500TX Fast Ethernet
1186 1112 DFE-570TX Fast Ethernet
1186 1140 DFE-660 Cardbus Ethernet 10/100
1186 1142 DFE-660 Cardbus Ethernet 10/100
11f6 0503 Freedomline Fast Ethernet
1282 9100 AEF-380TXD Fast Ethernet
1385 1100 FA310TX Fast Ethernet
2646 0001 KNE100TX Fast Ethernet
000a 21230 Video Codec
000d PBXGB [TGA2]
000f PCI-to-PDQ Interface Chip [PFI]
1011 def1 FDDI controller (DEFPA)
103c def1 FDDI controller (3X-DEFPA)
0014 DECchip 21041 [Tulip Pass 3]
1186 0100 DE-530+
0016 DGLPB [OPPO]
0017 PV-PCI Graphics Controller (ZLXp-L)
0019 DECchip 21142/43

1011 500a DE500A Fast Ethernet
1011 500b DE500B Fast Ethernet
1014 0001 10/100 EtherJet Cardbus
1025 0315 ALN315 Fast Ethernet
1033 800c PC-9821-CS01 100BASE-TX Interface Card
1033 800d PC-9821NR-B06 100BASE-TX Interface Card
103c 125a 10/100Base-TX (PCI) [A5506B]
108d
0016 Rapidfire 2327 10/100 Ethernet
108d 0017 GoCard 2250 Ethernet 10/100 Cardbus
10b8 2005 SMC8032DT Extreme Ethernet 10/100
10b8 8034 SMC8034 Extreme Ethernet 10/100
10ef 8169 Cardbus Fast Ethernet
1109 2a00 ANA-6911A/TX Fast Ethernet
1109 2b00 ANA-6911A/TXC Fast Ethernet
1109 3000 ANA-6922/TX Fast Ethernet
1113 1207 Cheetah Fast Ethernet
1113 2220 Cardbus Fast Ethernet
115d 0002 Cardbus Ethernet 10/100
1179 0203 Fast Ethernet
1179 0204 Cardbus Fast Ethernet
1186 1100 DFE-500TX Fast Ethernet
1186 1101 DFE-500TX Fast Ethernet
1186 1102 DFE-500TX Fast Ethernet
1186 1112 DFE-570TX Quad Fast Ethernet
1259 2800 AT-2800Tx Fast Ethernet
1266 0004 Eagle Fast EtherMAX
12af 0019 NetFlyer Cardbus Fast Ethernet
1374 0001 Cardbus Ethernet Card 10/100
1374 0002 Cardbus Ethernet Card 10/100
1374 0007 Cardbus Ethernet Card 10/100
1374 0008 Cardbus Ethernet Card 10/100
1385 2100 FA510
1395 0001 10/100 Ethernet CardBus PC
Card
13d1 ab01 EtherFast 10/100 Cardbus (PCMPC200)
1498 000a TPMC880-10 10/100Base-T and 10Base2 PMC Ethernet Adapter
1498 000b TPMC880-11 Single 10/100Base-T PMC Ethernet Adapter
1498 000c TPMC880-12 Single 10Base2 PMC Ethernet Adapter
14cb 0100 LNDL-100N 100Base-TX Ethernet PC Card
8086 0001 EtherExpress PRO/100 Mobile CardBus 32
001a Farallon PN9000SX Gigabit Ethernet
0021 DECchip 21052
0022 DECchip 21150
0023 DECchip 21150
0024 DECchip 21152
0025 DECchip 21153
0026 DECchip 21154

0034 56k Modem Cardbus
 1374 0003 56k Modem Cardbus
0045 DECchip 21553
0046 DECchip 21554
 0e11 4050 Integrated Smart Array
 0e11 4051 Integrated Smart Array
 0e11 4058 Integrated Smart Array
 103c 10c2 NetRAID-4M
 12d9 000a IP Telephony card
 4c53 1050 CT7 mainboard
 4c53 1051 CE7 mainboard
 9005 0364 5400S (Mustang)
 9005 0365 5400S (Mustang)
 9005 1364 Dell PowerEdge RAID Controller 2
 9005 1365 Dell PowerEdge RAID Controller 2
 e4bf 1000 CC8-1-BLUES
1065
 StrongARM DC21285
 1069 0020 DAC960P / DAC1164P
1012 Micronics Computers Inc
1013 Cirrus Logic
 0038 GD 7548
 0040 GD 7555 Flat Panel GUI Accelerator
 004c GD 7556 Video/Graphics LCD/CRT Ctrlr
 00a0 GD 5430/40 [Alpine]
 00a2 GD 5432 [Alpine]
 00a4 GD 5434-4 [Alpine]
 00a8 GD 5434-8 [Alpine]
 00ac GD 5436 [Alpine]
 00b0 GD 5440
 00b8 GD 5446
 00bc GD 5480
 1013 00bc CL-GD5480
 00d0 GD 5462
 00d2 GD 5462 [Laguna I]
 00d4 GD 5464 [Laguna]
 00d5 GD 5464 BD [Laguna]
 00d6 GD 5465 [Laguna]
 13ce 8031 Barco Metheus 2 Megapixel, Dual Head
 13cf 8031 Barco Metheus 2 Megapixel, Dual Head
 00e8 GD 5436U
 1100 CL 6729
 1110 PD 6832 PCMCIA/CardBus Ctrlr
 1112 PD 6834 PCMCIA/CardBus Ctrlr
 1113 PD 6833 PCMCIA/CardBus Ctrlr
 1200 GD 7542 [Nordic]
 1202 GD 7543 [Viking]
 1204 GD 7541 [Nordic Light]

4000 MD 5620 [CLM Data Fax Voice]
4400 CD 4400
6001 CS 4610/11 [CrystalClear SoundFusion Audio Accelerator]
 1014 1010 CS4610 SoundFusion Audio Accelerator
6003
 CS 4614/22/24/30 [CrystalClear SoundFusion Audio Accelerator]
 1013 4280 Crystal SoundFusion PCI Audio Accelerator
 1014 0153 ThinkPad A20m
 153b 112e DMX XFire 1024
 153b 1136 SiXPack 5.1+
 1681 0050 Game Theater XP
 1681 a011 Fortissimo III 7.1
 5053 3357 Santa Cruz
6004 CS 4614/22/24 [CrystalClear SoundFusion Audio Accelerator]
6005 Crystal CS4281 PCI Audio
 1013 4281 Crystal CS4281 PCI Audio
 10cf 10a8 Crystal CS4281 PCI Audio
 10cf 10a9 Crystal CS4281 PCI Audio
 10cf 10aa Crystal CS4281 PCI Audio
 10cf 10ab Crystal CS4281 PCI Audio
 10cf 10ac Crystal CS4281 PCI Audio
 10cf 10ad Crystal CS4281 PCI Audio
 10cf 10b4 Crystal CS4281 PCI Audio
 1179 0001 Crystal CS4281 PCI Audio
 14c0 000c Crystal CS4281 PCI Audio
1014 IBM
 0002 PCI to MCA Bridge
 0005 Alta Lite
 0007 Alta MP
 000a Fire Coral
 0017 CPU to PCI Bridge
 0018 TR Auto LANstreamer
 001b GXT-150P
 001c Carrera
 001d 82G2675
 0020 GXT1000 Graphics Adapter
 0022 IBM27-82351
 002d
  Python
 002e SCSI RAID Adapter [ServeRAID]
 1014 002e ServeRAID-3x
 1014 022e ServeRAID-4H
 0031 2 Port Serial Adapter
AS400 iSeries PCI sync serial card
 1014 0031 2721 WAN IOA - 2 Port Sync Serial Adapter
 0036 Miami
 0037 82660 CPU to PCI Bridge
 003a CPU to PCI Bridge

003c GXT250P/GXT255P Graphics Adapter
003e 16/4 Token ring UTP/STP controller
1014 003e Token-Ring Adapter
1014 00cd Token-Ring Adapter + Wake-On-LAN
1014 00ce 16/4 Token-Ring Adapter 2
1014 00cf 16/4 Token-Ring Adapter Special
1014 00e4 High-Speed 100/16/4 Token-Ring Adapter
1014 00e5 16/4 Token-Ring Adapter 2 + Wake-On-LAN
1014 016d iSeries 2744 Card
0045 SSA Adapter
0046 MPIC interrupt controller
0047 PCI to PCI Bridge
0048 PCI to PCI Bridge
0049 Warhead SCSI Controller
004e ATM Controller (14104e00)
004f ATM Controller (14104f00)
0050 ATM Controller (14105000)
0053 25 MBit ATM Controller
0054 GXT500P/GXT550P Graphics Adapter
0057 MPEG PCI
Bridge
0058 SSA Adapter [Advanced SerialRAID/X]
005c i82557B 10/100
005e GXT800P Graphics Adapter
007c ATM Controller (14107c00)
007d 3780IDSP [MWave]
008b EADS PCI to PCI Bridge
008e GXT3000P Graphics Adapter
0090 GXT 3000P
1014 008e GXT-3000P
0091 SSA Adapter
0095 20H2999 PCI Docking Bridge
0096 Chukar chipset SCSI controller
1014 0097 iSeries 2778 DASD IOA
1014 0098 iSeries 2763 DASD IOA
1014 0099 iSeries 2748 DASD IOA
009f PCI 4758 Cryptographic Accelerator
00a5 ATM Controller (1410a500)
00a6 ATM 155MBPS MM Controller (1410a600)
00b7 256-bit Graphics Rasterizer [FireGL1]
1092 00b8 FireGL1 AGP 32Mb
00b8 GXT2000P Graphics Adapter
00be ATM 622MBPS Controller (1410be00)
00dc Advanced Systems Management Adapter (ASMA)
00fc CPC710 Dual Bridge and Memory Controller (PCI-64)
0104 Gigabit Ethernet-SX Adapter
0105 CPC710 Dual Bridge and Memory Controller (PCI-32)
010f Remote Supervisor Adapter (RSA)

0142 Yotta Video Compositor Input
 1014
0143 Yotta Input Controller (ytin)
0144 Yotta Video Compositor Output
 1014 0145 Yotta Output Controller (ytout)
0156 405GP PLB to PCI Bridge
015e 622Mbps ATM PCI Adapter
0160 64bit/66MHz PCI ATM 155 MMF
016e GXT4000P Graphics Adapter
0170 GXT6000P Graphics Adapter
017d GXT300P Graphics Adapter
0180 Snipe chipset SCSI controller
 1014 0241 iSeries 2757 DASD IOA
 1014 0264 Quad Channel PCI-X U320 SCSI RAID Adapter (2780)
0188 EADS-X PCI-X to PCI-X Bridge
01a7 PCI-X to PCI-X Bridge
01bd ServeRAID Controller
 1014 01be ServeRAID-4M
 1014 01bf ServeRAID-4L
 1014 0208 ServeRAID-4Mx
 1014 020e ServeRAID-4Lx
 1014 022e ServeRAID-4H
 1014 0258 ServeRAID-5i
 1014 0259 ServeRAID-5i
01c1 64bit/66MHz PCI ATM 155 UTP
01e6 Cryptographic Accelerator
01ef PowerPC 440GP PCI Bridge
 1734 102b PCEAS PCI-X Dual Port ESCON Adapter
 1734 10f8 PCEAT PCI-Express Dual Port ESCON Adapter
01ff 10/100 Mbps Ethernet
0219 Multiport Serial Adapter
 1014
021a Dual RVX
 1014 0251 Internal Modem/RVX
 1014 0252 Quad Internal Modem
021b GXT6500P Graphics Adapter
021c GXT4500P Graphics Adapter
0233 GXT135P Graphics Adapter
0266 PCI-X Dual Channel SCSI
0268 Gigabit Ethernet-SX Adapter (PCI-X)
0269 10/100/1000 Base-TX Ethernet Adapter (PCI-X)
028c Citrine chipset SCSI controller
 1014 028d Dual Channel PCI-X DDR SAS RAID Adapter (572E)
 1014 02be Dual Channel PCI-X DDR U320 SCSI RAID Adapter (571B)
 1014 02c0 Dual Channel PCI-X DDR U320 SCSI Adapter (571A)
 1014 030d PCI-X DDR Auxiliary Cache Adapter (575B)
02a1 Calgary PCI-X Host Bridge
02bd Obsidian chipset SCSI controller

1014 02c1 PCI-X DDR 3Gb SAS Adapter (572A/572C)
1014 02c2 PCI-X DDR 3Gb SAS RAID Adapter (572B/571D)
1014 0338 PCI-X266 Auxiliary Cache Adapter (575C)
0302 Winnipeg PCI-X Host Bridge
0308 CalIOC2 PCI-E Root Port
0314 ZISC 036 Neural accelerator card
0339 Obsidian-E PCI-E SCSI controller
1014 0360 PCI-E Auxiliary Cache
Adapter (57B7)
3022 QLA3022 Network Adapter
4022 QLA3022 Network Adapter
ffff MPIC-2 interrupt controller
1015 LSI Logic Corp of Canada
1016 ICL Personal Systems
1017 SPEA Software AG
5343 SPEA 3D Accelerator
1018 Unisys Systems
1019 Elitegroup Computer Systems
101a AT&T GIS (NCR)
0005 100VG ethernet
1dc1 Bynet
101a 0019 BIC2M
101a 001f BIC4M
101a 0ece BYA4M
101b Vitesse Semiconductor
101c Western Digital
0193 33C193A
0196 33C196A
0197 33C197A
0296 33C296A
3193 7193
3197 7197
3296 33C296A
4296 34C296
9710 Pipeline 9710
9712 Pipeline 9712
c24a 90C
101e American Megatrends Inc.
0009 MegaRAID 428 Ultra RAID Controller (rev 03)
1960 MegaRAID
101e 0471 MegaRAID 471 Enterprise 1600 RAID Controller
101e 0475 MegaRAID 475 Express 500/500LC RAID Controller
101e 0477 MegaRAID 477 Elite 3100 RAID Controller
101e 0493 MegaRAID 493 Elite 1600 RAID Controller
101e 0494 MegaRAID 494 Elite 1650 RAID Controller
101e 0503 MegaRAID
503 Enterprise 1650 RAID Controller
101e 0511 MegaRAID 511 i4 IDE RAID Controller

101e 0522 MegaRAID 522 i4133 RAID Controller
1028 0471 PowerEdge RAID Controller 3/QC
1028 0475 PowerEdge RAID Controller 3/SC
1028 0493 PowerEdge RAID Controller 3/DC
1028 0511 PowerEdge Cost Effective RAID Controller ATA100/4Ch
103c 60e7 NetRAID-1M
9010 MegaRAID 428 Ultra RAID Controller
9030 EIDE Controller
9031 EIDE Controller
9032 EIDE & SCSI Controller
9033 SCSI Controller
9040 Multimedia card
9060 MegaRAID 434 Ultra GT RAID Controller
9063 MegaRAC
101e 0767 Dell Remote Assistant Card 2
101f PictureTel
1020 Hitachi Computer Products
1021 OKI Electric Industry Co. Ltd.
1022 Advanced Micro Devices [AMD]
1100 K8 [Athlon64/Opteron] HyperTransport Technology Configuration
1101 K8 [Athlon64/Opteron] Address Map
1102 K8 [Athlon64/Opteron] DRAM Controller
1103 K8 [Athlon64/Opteron] Miscellaneous Control
1200 Family 10h [Opteron, Athlon64, Sempron] HyperTransport Configuration
1201 Family 10h [Opteron, Athlon64, Sempron] Address Map
1202 Family 10h [Opteron, Athlon64, Sempron] DRAM Controller
1203 Family 10h [Opteron, Athlon64, Sempron] Miscellaneous Control
1204 Family 10h [Opteron, Athlon64, Sempron] Link Control
1300 Family 11h HyperTransport Configuration
1301 Family 11h Address Map
1302 Family 11h DRAM Controller
1303 Family 11h Miscellaneous Control
1304 Family 11h Link Control
2000 79c970 [PCnet32 LANCE]
1014 2000 NetFinity 10/100 Fast Ethernet
1022 2000 PCnet - Fast 79C971
103c 104c Ethernet with LAN remote power Adapter
103c 1064 Ethernet with LAN remote power Adapter
103c 1065 Ethernet with LAN remote power Adapter
103c 106c Ethernet with LAN remote power Adapter
103c 106e Ethernet with LAN remote power Adapter
103c 10ea Ethernet with LAN remote power Adapter
1113 1220 EN1220 10/100 Fast Ethernet
1259 2450 AT-2450 10/100 Fast Ethernet
1259 2454 AT-2450v4 10Mb Ethernet Adapter
1259

2700 AT-2700TX 10/100 Fast Ethernet
 1259 2701 AT-2700FX 100Mb Ethernet
 1259 2702 AT-2700FTX 10/100 Mb Fiber/Copper Fast Ethernet
 1259 2703 AT-2701FX
 1259 2704 AT-2701FTX 10/100 Mb Fiber/Copper Fast Ethernet
 4c53 1000 CC7/CR7/CP7/VC7/VP7/VR7 mainboard
 4c53 1010 CP5/CR6 mainboard
 4c53 1020 VR6 mainboard
 4c53 1030 PC5 mainboard
 4c53 1040 CL7 mainboard
 4c53 1060 PC7 mainboard
2001 79c978 [HomePNA]
 1092 0a78 Multimedia Home Network Adapter
 1668 0299 ActionLink Home Network Adapter
2003 Am 1771 MBW [Alchemy]
2020 53c974 [PCscsi]
2040 79c974
2080 CS5536 [Geode companion] Host Bridge
2081 Geode LX Video
2082 Geode LX AES Security Block
208f CS5536 GeodeLink PCI South Bridge
2090 CS5536 [Geode companion] ISA
2091 CS5536 [Geode companion] FLASH
2093 CS5536 [Geode companion] Audio
2094 CS5536 [Geode companion] OHC
2095 CS5536 [Geode companion] EHC
2096 CS5536 [Geode companion] UDC
2097 CS5536 [Geode companion] UOC
209a
 CS5536 [Geode companion] IDE
3000 ELanSC520 Microcontroller
7006 AMD-751 [Irongate] System Controller
7007 AMD-751 [Irongate] AGP Bridge
700a AMD-IGR4 AGP Host to PCI Bridge
700b AMD-IGR4 PCI to PCI Bridge
700c AMD-760 MP [IGD4-2P] System Controller
700d AMD-760 MP [IGD4-2P] AGP Bridge
700e AMD-760 [IGD4-1P] System Controller
700f AMD-760 [IGD4-1P] AGP Bridge
7400 AMD-755 [Cobra] ISA
7401 AMD-755 [Cobra] IDE
7403 AMD-755 [Cobra] ACPI
7404 AMD-755 [Cobra] USB
7408 AMD-756 [Viper] ISA
7409 AMD-756 [Viper] IDE
740b AMD-756 [Viper] ACPI
740c AMD-756 [Viper] USB
7410 AMD-766 [ViperPlus] ISA

7411 AMD-766 [ViperPlus] IDE
7413 AMD-766 [ViperPlus] ACPI
7414 AMD-766 [ViperPlus] USB
7440 AMD-768 [Opus] ISA
 1043 8044 A7M-D Mainboard
7441 AMD-768 [Opus] IDE
7443 AMD-768 [Opus] ACPI
 1043 8044 A7M-D Mainboard
7445 AMD-768 [Opus] Audio
7446 AMD-768 [Opus] MC97 Modem (Smart Link HAMR5600 compatible)
7448 AMD-768 [Opus] PCI
7449 AMD-768
[Opus] USB
7450 AMD-8131 PCI-X Bridge
7451 AMD-8131 PCI-X IOAPIC
7454 AMD-8151 System Controller
7455 AMD-8151 AGP Bridge
7458 AMD-8132 PCI-X Bridge
7459 AMD-8132 PCI-X IOAPIC
7460 AMD-8111 PCI
 161f 3017 HDAMB
7461 AMD-8111 USB
7462 AMD-8111 Ethernet
7464 AMD-8111 USB
 161f 3017 HDAMB
7468 AMD-8111 LPC
 161f 3017 HDAMB
7469 AMD-8111 IDE
 1022 2b80 AMD-8111 IDE [Quartet]
 161f 3017 HDAMB
746a AMD-8111 SMBus 2.0
746b AMD-8111 ACPI
 161f 3017 HDAMB
746d AMD-8111 AC97 Audio
 161f 3017 HDAMB
746e AMD-8111 MC97 Modem
756b AMD-8111 ACPI
1023 Trident Microsystems
0194 82C194
2000 4DWave DX
2001 4DWave NX
 122d 1400 Trident PCI288-Q3DII (NX)
2100 CyberBlade XP4m32
2200 XGI Volari XP5
8400 CyberBlade/i7
 1023 8400 CyberBlade i7 AGP
8420 CyberBlade/i7d
 0e11 b15a CyberBlade i7 AGP

8500 CyberBlade/i1
8520 CyberBlade i1
 0e11 b16e CyberBlade i1 AGP
 1023 8520 CyberBlade i1 AGP
8620 CyberBlade/i1
 1014 0502 ThinkPad R30/T30
 1014
1025 Travelmate 352TE
8820 CyberBlade XPAi1
9320 TGUI 9320
9350 GUI Accelerator
9360 Flat panel GUI Accelerator
9382 Cyber 9382 [Reference design]
9383 Cyber 9383 [Reference design]
9385 Cyber 9385 [Reference design]
9386 Cyber 9386
9388 Cyber 9388
9397 Cyber 9397
939a Cyber 9397DVD
9420 TGUI 9420
9430 TGUI 9430
9440 TGUI 9440
9460 TGUI 9460
9470 TGUI 9470
9520 Cyber 9520
9525 Cyber 9525
 10cf 1094 Lifebook C6155
9540 Cyber 9540
9660 TGUI 9660/938x/968x
9680 TGUI 9680
9682 TGUI 9682
9683 TGUI 9683
9685 ProVIDIA 9685
9750 3DImage 9750
 1014 9750 3DImage 9750
 1023 9750 3DImage 9750
9753 TGUI 9753
9754 TGUI 9754
9759 TGUI 975
9783 TGUI 9783
9785 TGUI 9785
9850 3DImage 9850
9880 Blade 3D PCI/AGP
 1023 9880 Blade 3D
9910 CyberBlade/XP
9930 CyberBlade/XPm
1024 Zenith Data Systems
1025 Acer Incorporated [ALI]

0090 BCM440x 100Base-TX Fast Ethernet
1435 M1435
1445 M1445
1449 M1449
1451 M1451
1461
M1461
1489 M1489
1511 M1511
1512 ALI M1512 Aladdin
1513 M1513
1521 ALI M1521 Aladdin III CPU Bridge
10b9 1521 ALI M1521 Aladdin III CPU Bridge
1523 ALI M1523 ISA Bridge
10b9 1523 ALI M1523 ISA Bridge
1531 M1531 Northbridge [Aladdin IV/IV+]
1533 M1533 PCI-to-ISA Bridge
10b9 1533 ALI M1533 Aladdin IV/V ISA South Bridge
1535 M1535 PCI Bridge + Super I/O + FIR
1541 M1541 Northbridge [Aladdin V]
10b9 1541 ALI M1541 Aladdin V/V+ AGP+PCI North Bridge
1542 M1542 Northbridge [Aladdin V]
1543 M1543 PCI-to-ISA Bridge + Super I/O + FIR
1561 M1561 Northbridge [Aladdin 7]
1621 M1621 Northbridge [Aladdin-Pro II]
1631 M1631 Northbridge+3D Graphics [Aladdin TNT2]
1641 M1641 Northbridge [Aladdin-Pro IV]
1647 M1647 [MaGiK1] PCI North Bridge
1671 M1671 Northbridge [ALADDiN-P4]
1672 Northbridge [CyberALADDiN-P4]
3141 M3141
3143 M3143
3145 M3145
3147 M3147
3149 M3149
3151 M3151
3307 M3307 MPEG-I Video Controller
3309 M3309 MPEG-II Video
w/ Software Audio Decoder
3321 M3321 MPEG-II Audio/Video Decoder
5212 M4803
5215 ALI PCI EIDE Controller
5217 M5217H
5219 M5219
5225 M5225
5229 M5229
5235 M5235
5237 M5237 PCI USB Host Controller

5240 EIDE Controller
5241 PCMCIA Bridge
5242 General Purpose Controller
5243 PCI to PCI Bridge Controller
5244 Floppy Disk Controller
5247 M1541 PCI to PCI Bridge
5251 M5251 P1394 Controller
5427 PCI to AGP Bridge
5451 M5451 PCI AC-Link Controller Audio Device
5453 M5453 PCI AC-Link Controller Modem Device
7101 M7101 PCI PMU Power Management Controller
10b9 7101 M7101 PCI PMU Power Management Controller
1028 Dell
0001 PowerEdge Expandable RAID Controller 2/Si
1028 0001 PowerEdge 2400
0002 PowerEdge Expandable RAID Controller 3/Di
1028 0002 PowerEdge 4400
1028 00d1 PERC 3/DiV [Viper]
1028 00d9 PERC 3/DiL [Lexus]
0003 PowerEdge Expandable RAID Controller 3/Si
1028 0003 PowerEdge 2450
PowerEdge Codename Iguana
0004 PowerEdge Expandable
RAID Controller 3/Di [Iguana]
1028 0004 PERC 3/DiF [Iguana]
0006 PowerEdge Expandable RAID Controller 3/Di
0007 Remote Access Card III
0008 Remote Access Card III
0009 Remote Access Card III: BMC/SMIC device not present
000a PowerEdge Expandable RAID Controller 3/Di
1028 0106 PERC 3/DiJ [Jaguar]
1028 011b PERC 3/DiD [Dagger]
1028 0121 PERC 3/DiB [Boxster]
000c Embedded Remote Access or ERA/O
000d Embedded Remote Access: BMC/SMIC device
000e PowerEdge Expandable RAID controller 4/Di
000f PowerEdge Expandable RAID controller 4/Di
0010 Remote Access Card 4
0011 Remote Access Card 4 Daughter Card
0012 Remote Access Card 4 Daughter Card Virtual UART
0013 PowerEdge Expandable RAID controller 4
1028 016c PowerEdge Expandable RAID Controller 4e/Si
1028 016d PowerEdge Expandable RAID Controller 4e/Di
1028 016e PowerEdge Expandable RAID Controller 4e/Di
1028 016f PowerEdge Expandable RAID Controller 4e/Di
1028 0170 PowerEdge Expandable
RAID Controller 4e/Di
0014 Remote Access Card 4 Daughter Card SMIC interface

0015 PowerEdge Expandable RAID controller 5i
1028 1f01 PERC 5/E Adapter RAID Controller
1028 1f02 PERC 5/i Adapter RAID Controller
1028 1f03 PERC 5/i Adapter RAID Controller
1029 Siemens Nixdorf IS
102a LSI Logic
0000 HYDRA
0010 ASPEN
001f AHA-2940U2/U2W /7890/7891 SCSI Controllers
9005 000f 2940U2W SCSI Controller
9005 0106 2940U2W SCSI Controller
9005 a180 2940U2W SCSI Controller
00c5 AIC-7899 U160/m SCSI Controller
1028 00c5 PowerEdge 2550/2650/4600
00cf AIC-7899P U160/m
1028 0106 PowerEdge 4600
1028 0121 PowerEdge 2650
102b Matrox Graphics, Inc.
DJ: I've a suspicion that 0010 is a duplicate of 0d10.
0010 MGA-I [Impression?]
0100 MGA 1064SG [Mystique]
0518 MGA-II [Athena]
0519 MGA 2064W [Millennium]
051a MGA 1064SG [Mystique]
102b 0100 MGA-1064SG Mystique
102b 1100 MGA-1084SG Mystique
102b 1200 MGA-1084SG Mystique
1100 102b MGA-1084SG Mystique
110a
0018 Scenic Pro C5 (D1025)
051b MGA 2164W [Millennium II]
102b 051b MGA-2164W Millennium II
102b 1100 MGA-2164W Millennium II
102b 1200 MGA-2164W Millennium II
051e MGA 1064SG [Mystique] AGP
051f MGA 2164W [Millennium II] AGP
0520 MGA G200
102b dbc2 G200 Multi-Monitor
102b dbc8 G200 Multi-Monitor
102b dbe2 G200 Multi-Monitor
102b dbe8 G200 Multi-Monitor
102b ff03 Millennium G200 SD
102b ff04 Marvel G200
0521 MGA G200 AGP
1014 ff03 Millennium G200 AGP
102b 48e9 Mystique G200 AGP
102b 48f8 Millennium G200 SD AGP
102b 4a60 Millennium G200 LE AGP

102b 4a64 Millennium G200 AGP
102b c93c Millennium G200 AGP
102b c9b0 Millennium G200 AGP
102b c9bc Millennium G200 AGP
102b ca60 Millennium G250 LE AGP
102b ca6c Millennium G250 AGP
102b dbbc Millennium G200 AGP
102b dbc2 Millennium G200 MMS (Dual G200)
102b dbc3 G200 Multi-Monitor
102b dbc8 Millennium G200 MMS (Dual G200)
102b dbd2 G200 Multi-Monitor
102b
dbd3 G200 Multi-Monitor
102b dbd4 G200 Multi-Monitor
102b dbd5 G200 Multi-Monitor
102b dbd8 G200 Multi-Monitor
102b dbd9 G200 Multi-Monitor
102b dbe2 Millennium G200 MMS (Quad G200)
102b dbe3 G200 Multi-Monitor
102b dbe8 Millennium G200 MMS (Quad G200)
102b dbf2 G200 Multi-Monitor
102b dbf3 G200 Multi-Monitor
102b dbf4 G200 Multi-Monitor
102b dbf5 G200 Multi-Monitor
102b dbf8 G200 Multi-Monitor
102b dbf9 G200 Multi-Monitor
102b f806 Mystique G200 Video AGP
102b ff00 MGA-G200 AGP
102b ff02 Mystique G200 AGP
102b ff03 Millennium G200 AGP
102b ff04 Marvel G200 AGP
110a 0032 MGA-G200 AGP
0522 MGA G200e [Pilot] ServerEngines (SEP1)
0525 MGA G400/G450
0e11 b16f MGA-G400 AGP
102b 0328 Millennium G400 16Mb SDRAM
102b 0338 Millennium G400 16Mb SDRAM
102b 0378 Millennium G400 32Mb SDRAM
102b 0541 Millennium G450 Dual Head
102b 0542 Millennium G450 Dual Head LX
102b 0543 Millennium G450 Single Head LX
102b
0641 Millennium G450 32Mb SDRAM Dual Head
102b 0642 Millennium G450 32Mb SDRAM Dual Head LX
102b 0643 Millennium G450 32Mb SDRAM Single Head LX
102b 07c0 Millennium G450 Dual Head LE
102b 07c1 Millennium G450 SDR Dual Head LE
102b 0d41 Millennium G450 Dual Head PCI

102b 0d42 Millennium G450 Dual Head LX PCI
102b 0d43 Millennium G450 32Mb Dual Head PCI
102b 0e00 Marvel G450 eTV
102b 0e01 Marvel G450 eTV
102b 0e02 Marvel G450 eTV
102b 0e03 Marvel G450 eTV
102b 0f80 Millennium G450 Low Profile
102b 0f81 Millennium G450 Low Profile
102b 0f82 Millennium G450 Low Profile DVI
102b 0f83 Millennium G450 Low Profile DVI
102b 19d8 Millennium G400 16Mb SGRAM
102b 19f8 Millennium G400 32Mb SGRAM
102b 2159 Millennium G400 Dual Head 16Mb
102b 2179 Millennium G400 MAX/Dual Head 32Mb
102b 217d Millennium G400 Dual Head Max
102b 23c0 Millennium G450
102b 23c1 Millennium G450
102b 23c2 Millennium G450 DVI
102b 23c3 Millennium G450
DVI
102b 2f58 Millennium G400
102b 2f78 Millennium G400
102b 3693 Marvel G400 AGP
102b 5dd0 4Sight II
102b 5f50 4Sight II
102b 5f51 4Sight II
102b 5f52 4Sight II
102b 9010 Millennium G400 Dual Head
1458 0400 GA-G400
1705 0001 Millennium G450 32MB SGRAM
1705 0002 Millennium G450 16MB SGRAM
1705 0003 Millennium G450 32MB
1705 0004 Millennium G450 16MB
0527 MGA Parhelia AGP
102b 0840 Parhelia 128Mb
102b 0850 Parhelia 256MB AGP 4X
0528 Parhelia 8X
102b 1020 Parhelia 128MB
102b 1030 Parhelia 256 MB Dual DVI
102b 14e1 Parhelia PCI 256MB
102b 2021 QID Pro
0d10 MGA Ultima/Impression
1000 MGA G100 [Productiva]
102b ff01 Productiva G100
102b ff05 Productiva G100 Multi-Monitor
1001 MGA G100 [Productiva] AGP
102b 1001 MGA-G100 AGP
102b ff00 MGA-G100 AGP

102b ff01 MGA-G100 Productiva AGP
102b ff03 Millennium G100 AGP
102b ff04 MGA-G100 AGP
102b ff05 MGA-G100 Productiva AGP Multi-Monitor
110a 001e MGA-G100
AGP
2007 MGA Mistral
2527 MGA G550 AGP
102b 0f83 Millennium G550
102b 0f84 Millennium G550 Dual Head DDR 32Mb
102b 1e41 Millennium G550
2537 Millenium P650/P750
102b 1820 Millennium P750 64MB
102b 1830 Millennium P650 64MB
102b 1c10 QID 128MB
102b 2811 Millennium P650 Low-profile PCI 64MB
102b 2c11 QID Low-profile PCI
2538 Millenium P650 PCIe
102b 08c7 Millennium P650 PCIe 128MB
102b 0907 Millennium P650 PCIe 64MB
102b 0947 Parhelia APVe
102b 1047 Millennium P650 LP PCIe 128MB
102b 1087 Millennium P650 LP PCIe 64MB
102b 2538 Parhelia APVe
102b 3007 QID Low-profile PCIe
4536 VIA Framegrabber
4cdc Morphis Vision System Jpeg2000
4fc5 Morphis Vision System
5e10 Morphis Vision System Aux/IO
6573 Shark 10/100 Multiport SwitchNIC
102c Chips and Technologies
00b8 F64310
00c0 F69000 HiQVideo
102c 00c0 F69000 HiQVideo
4c53 1000 CC7/CR7/CP7/VC7/VP7/VR7 mainboard
4c53 1010 CP5/CR6 mainboard
4c53 1020 VR6 mainboard
4c53
1030 PC5 mainboard
4c53 1050 CT7 mainboard
4c53 1051 CE7 mainboard
00d0 F65545
00d8 F65545
00dc F65548
00e0 F65550
00e4 F65554
00e5 F65555 HiQVPro
0e11 b049 Armada 1700 Laptop Display Controller

1179 0001 Satellite Pro
00f0 F68554
00f4 F68554 HiQVision
00f5 F68555
0c30 F69030
4c53 1000 CC7/CR7/CP7/VC7/VP7/VR7 mainboard
4c53 1050 CT7 mainboard
4c53 1051 CE7 mainboard
4c53 1080 CT8 mainboard
102d Wyse Technology Inc.
50dc 3328 Audio
102e Olivetti Advanced Technology
102f Toshiba America
0009 r4x00
000a TX3927 MIPS RISC PCI Controller
0020 ATM Meteor 155
102f 00f8 ATM Meteor 155
0030 TC35815CF PCI 10/100 Mbit Ethernet Controller
0031 TC35815CF PCI 10/100 Mbit Ethernet Controller with WOL
0032 TC35815CF PCI 10/100 Mbit Ethernet Controller on TX4939
0105 TC86C001 [goku-s] IDE
0106 TC86C001 [goku-s] USB 1.1 Host
0107 TC86C001 [goku-s] USB Device Controller
0108 TC86C001 [goku-s] I2C/SIO/GPIO Controller
0180 TX4927/38
MIPS RISC PCI Controller
0181 TX4925 MIPS RISC PCI Controller
0182 TX4937 MIPS RISC PCI Controller
1030 TMC Research
1031 Miro Computer Products AG
5601 DC20 ASIC
5607 Video I/O & motion JPEG compressor
5631 Media 3D
6057 MiroVideo DC10/DC30+
1032 Compaq
1033 NEC Corporation
0000 Vr4181A USB Host or Function Control Unit
0001 PCI to 486-like bus Bridge
0002 PCI to VL98 Bridge
0003 ATM Controller
0004 R4000 PCI Bridge
0005 PCI to 486-like bus Bridge
0006 PC-9800 Graphic Accelerator
0007 PCI to UX-Bus Bridge
0008 PC-9800 Graphic Accelerator
0009 PCI to PC9800 Core-Graph Bridge
0016 PCI to VL Bridge
001a [Nile II]

0021 Vrc4373 [Nile I]
0029 PowerVR PCX1
002a PowerVR 3D
002c Star Alpha 2
002d PCI to C-bus Bridge
0035 USB
 1033 0035 Hama USB 2.0 CardBus
 1179 0001 USB
 12ee 7000 Root Hub
 14c2 0105 PTI-205N USB 2.0 Host Controller
 1799 0001 Root Hub
 1931 000a GlobeTrotter Fusion Quad Lite (PPP data)
 1931 000b GlobeTrotter
Fusion Quad Lite (GSM data)
 807d 0035 PCI-USB2 (OHCI subsystem)
003b PCI to C-bus Bridge
003e NAPCCARD Cardbus Controller
0046 PowerVR PCX2 [midas]
005a Vrc5074 [Nile 4]
0063 Firewarden
0067 PowerVR Neon 250 Chipset
 1010 0020 PowerVR Neon 250 AGP 32Mb
 1010 0080 PowerVR Neon 250 AGP 16Mb
 1010 0088 PowerVR Neon 250 16Mb
 1010 0090 PowerVR Neon 250 AGP 16Mb
 1010 0098 PowerVR Neon 250 16Mb
 1010 00a0 PowerVR Neon 250 AGP 32Mb
 1010 00a8 PowerVR Neon 250 32Mb
 1010 0120 PowerVR Neon 250 AGP 32Mb
0072 uPD72874 IEEE1394 OHCI 1.1 3-port PHY-Link Ctrlr
0074 56k Voice Modem
 1033 8014 RCV56ACF 56k Voice Modem
009b Vrc5476
00a5 VRC4173
00a6 VRC5477 AC97
00cd IEEE 1394 [OrangeLink] Host Controller
 12ee 8011 Root hub
00ce IEEE 1394 Host Controller
00df Vr4131
00e0 USB 2.0
 12ee 7001 Root hub
 14c2 0205 PTI-205N USB 2.0 Host Controller
 1799 0002 Root Hub
 807d 1043 PCI-USB2 (EHCI subsystem)
00e7 IEEE 1394 Host Controller
00f2
uPD72874 IEEE1394 OHCI 1.1 3-port PHY-Link Ctrlr
00f3 uPD6113x Multimedia Decoder/Processor [EMMA2]

010c VR7701
0125 uPD720400 PCI Express - PCI/PCI-X Bridge
013a Dual Tuner/MPEG Encoder
1034 Framatome Connectors USA Inc.
1035 Comp. & Comm. Research Lab
1036 Future Domain Corp.
0000 TMC-18C30 [36C70]
1037 Hitachi Micro Systems
1038 AMP, Inc
1039 Silicon Integrated Systems [SiS]
0001 Virtual PCI-to-PCI bridge (AGP)
0002 SG86C202
0003 SiS AGP Port (virtual PCI-to-PCI bridge)
0004 PCI-to-PCI bridge
0006 85C501/2/3
0008 SiS85C503/5513 (LPC Bridge)
0009 ACPI
000a PCI-to-PCI bridge
0016 SiS961/2 SMBus Controller
0018 SiS85C503/5513 (LPC Bridge)
0180 RAID bus controller 180 SATA/PATA [SiS]
0181 SATA
0182 182 SATA/RAID Controller
 1734 1095 D2030-A1
0186 AHCI Controller (0106)
0190 190 Gigabit Ethernet Adapter
0191 191 Gigabit Ethernet Adapter
0200 5597/5598/6326 VGA
 1039 0000 SiS5597 SVGA (Shared RAM)
0204 82C204
0205 SG86C205
0300
 300/305 PCI/AGP VGA Display Adapter
 107d 2720 Leadtek WinFast VR300
0310 315H PCI/AGP VGA Display Adapter
0315 315 PCI/AGP VGA Display Adapter
0325 315PRO PCI/AGP VGA Display Adapter
0330 330 [Xabre] PCI/AGP VGA Display Adapter
0406 85C501/2
0496 85C496
0530 530 Host
0540 540 Host
0550 550 Host
0597 5513C
0601 85C601
0620 620 Host
0630 630 Host
0633 633 Host

0635 635 Host
0645 SiS645 Host & Memory & AGP Controller
0646 SiS645DX Host & Memory & AGP Controller
0648 645xx
0650 650/M650 Host
0651 651 Host
0655 655 Host
0660 660 Host
0661 661FX/M661FX/M661MX Host
0662 662 Host
0730 730 Host
0733 733 Host
0735 735 Host
0740 740 Host
0741 741/741GX/M741 Host
0745 745 Host
0746 746 Host
0755 755 Host
0760 760/M760 Host
0761 761/M761 Host
 1734 1099 D2030-A1 Motherboard
0900 SiS900 PCI Fast Ethernet
 1019 0a14 K7S5A motherboard
 1039 0900 SiS900 10/100 Ethernet Adapter
 1043 8035 CUSI-FX motherboard
 1462 0900 MS-6701
motherboard
0961 SiS961 [MuTIOL Media IO]
0962 SiS962 [MuTIOL Media IO]
0963 SiS963 [MuTIOL Media IO]
0964 SiS964 [MuTIOL Media IO]
0965 SiS965 [MuTIOL Media IO]
0966 SiS966 [MuTIOL Media IO]
0968 SiS968 [MuTIOL Media IO]
1180 SATA Controller / IDE mode
1182 SATA Controller / RAID mode
1183 SATA Controller / IDE mode
1184 AHCI Controller / RAID mode
1185 AHCI IDE Controller (0106)
3602 83C602
5107 5107
5300 SiS540 PCI Display Adapter
5315 550 PCI/AGP VGA Display Adapter
5401 486 PCI Chipset
5511 5511/5512
5513 5513 [IDE]
 1019 0970 P6STP-FL motherboard
 1039 5513 SiS5513 EIDE Controller (A,B step)

1043 8035 CUSI-FX motherboard
1462 7010 MS-6701 motherboard
1734 1095 D2030-A1 Motherboard
5517 5517
5571 5571
5581 5581 Pentium Chipset
5582 5582
5591 5591/5592 Host
5596 5596 Pentium Chipset
5597 5597 [SiS5582]
5600 5600 Host
6204 Video decoder & MPEG interface
6205 VGA Controller
6236 6236 3D-AGP
6300 630/730
PCI/AGP VGA Display Adapter
1019 0970 P6STP-FL motherboard
1043 8035 CUSI-FX motherboard
6306 530/620 PCI/AGP VGA Display Adapter
1039 6306 SiS530,620 GUI Accelerator+3D
6325 65x/M650/740 PCI/AGP VGA Display Adapter
6326 86C326 5598/6326
1039 6326 SiS6326 GUI Accelerator
1092 0a50 SpeedStar A50
1092 0a70 SpeedStar A70
1092 4910 SpeedStar A70
1092 4920 SpeedStar A70
1569 6326 SiS6326 GUI Accelerator
6330 661/741/760 PCI/AGP or 662/761Gx PCIE VGA Display Adapter
1039 6330 [M]661xX/[M]741[GX]/[M]760 PCI/AGP VGA Adapter
1043 8113 SiS Real 256E (ASUS P5S800-VM motherboard)
1458 d000 SiS661FX GUI 2D/3D Accelerator
1734 1099 D2030-A1
6350 770/670 PCIE VGA Display Adapter
6351 771/671 PCIE VGA Display Adapter
7001 USB 1.0 Controller
1019 0a14 K7S5A motherboard
1039 7000 Onboard USB Controller
1462 5470 K7SOM+ 5.2C Motherboard
1462 7010 MS-6701 motherboard
1734 1095 D2030-A1 Motherboard
7002 USB 2.0 Controller
1462 7010 MS-6701
motherboard
1509 7002 Onboard USB Controller
1734 1095 D2030-A1
7007 FireWire Controller
1462 701d MS-6701

7012 AC'97 Sound Controller
1462 7010 MS-6701 motherboard
15bd 1001 DFI 661FX motherboard
1734 109f D2030-A1 Motherboard
There are may be different modem codecs here (Intel537 compatible and incompatible)
7013 AC'97 Modem Controller
7016 SiS7016 PCI Fast Ethernet Adapter
1039 7016 SiS7016 10/100 Ethernet Adapter
7018 SiS PCI Audio Accelerator
1014 01b6 SiS PCI Audio Accelerator
1014 01b7 SiS PCI Audio Accelerator
1019 7018 SiS PCI Audio Accelerator
1025 000e SiS PCI Audio Accelerator
1025 0018 SiS PCI Audio Accelerator
1039 7018 SiS PCI Audio Accelerator
1043 1453 SiS PCI Audio Accelerator
1043 800b SiS PCI Audio Accelerator
1054 7018 SiS PCI Audio Accelerator
107d 5330 SiS PCI Audio Accelerator
107d 5350 SiS PCI Audio Accelerator
1170 3209 SiS PCI Audio Accelerator
1462 400a SiS PCI Audio Accelerator
14a4
2089 SiS PCI Audio Accelerator
14cd 2194 SiS PCI Audio Accelerator
14ff 1100 SiS PCI Audio Accelerator
152d 8808 SiS PCI Audio Accelerator
1558 1103 SiS PCI Audio Accelerator
1558 2200 SiS PCI Audio Accelerator
1563 7018 SiS PCI Audio Accelerator
15c5 0111 SiS PCI Audio Accelerator
270f a171 SiS PCI Audio Accelerator
a0a0 0022 SiS PCI Audio Accelerator
7019 SiS7019 Audio Accelerator
7502 Azalia Audio Controller
103a Seiko Epson Corporation
103b Tatung Co. of America
103c Hewlett-Packard Company
002a NX9000 Notebook
1005 A4977A Visualize EG
1008 Visualize FX
1028 Tach TL Fibre Channel Host Adapter
1029 Tach XL2 Fibre Channel Host Adapter
107e 000f Interphase 5560 Fibre Channel Adapter
9004 9210 1Gb/2Gb Family Fibre Channel Controller
9004 9211 1Gb/2Gb Family Fibre Channel Controller
102a Tach TS Fibre Channel Host Adapter
107e 000e Interphase 5540/5541 Fibre Channel Adapter

9004 9110 1Gb/2Gb Family Fibre Channel Controller
9004
9111 1Gb/2Gb Family Fibre Channel Controller
1030 J2585A DeskDirect 10/100VG NIC
1031 J2585B HP 10/100VG PCI LAN Adapter
103c 1040 J2973A DeskDirect 10BaseT NIC
103c 1041 J2585B DeskDirect 10/100VG NIC
103c 1042 J2970A DeskDirect 10BaseT/2 NIC
1040 J2973A DeskDirect 10BaseT NIC
1041 J2585B DeskDirect 10/100 NIC
1042 J2970A DeskDirect 10BaseT/2 NIC
1048 Diva Serial [GSP] Multiport UART
103c 1049 Tosca Console
103c 104a Tosca Secondary
103c 104b Maestro SP2
103c 1223 Superdome Console
103c 1226 Keystone SP2
103c 1227 Powerbar SP2
103c 1282 Everest SP2
103c 1301 Diva RMP3
1054 PCI Local Bus Adapter
1064 79C970 PCnet Ethernet Controller
108b Visualize FXe
10c1 NetServer Smart IRQ Router
10ed TopTools Remote Control
10f0 rio System Bus Adapter
10f1 rio I/O Controller
1200 82557B 10/100 NIC
1219 NetServer PCI Hot-Plug Controller
121a NetServer SMIC Controller
121b NetServer Legacy COM Port Decoder
121c NetServer
PCI COM Port Decoder
1229 zx1 System Bus Adapter
122a zx1 I/O Controller
122e PCI-X Local Bus Adapter
127b sx1000 System Bus Adapter
127c sx1000 I/O Controller
1290 Auxiliary Diva Serial Port
1291 Auxiliary Diva Serial Port
12b4 zx1 QuickSilver AGP8x Local Bus Adapter
12eb sx2000 System Bus Adapter
12ec sx2000 I/O Controller
12ee PCI-X 2.0 Local Bus Adapter
12f8 Broadcom BCM4306 802.11b/g Wireless LAN
12fa BCM4306 802.11b/g Wireless LAN Controller
1302 RMP-3 Shared Memory Driver
1303 RMP-3 (Remote Management Processor)

1361 BCM4312 802.11a/b/g WLAN Controller
2910 E2910A PCIBus Exerciser
2925 E2925A 32 Bit, 33 MHzPCI Exerciser & Analyzer
3080 Pavilion ze2028ea
3085 Realtek RTL8139/8139C/8139C+
30b5 Compaq Presario V3000Z
3220 Smart Array P600
 103c 3225 3 Gb/s SAS RAID
3230 Smart Array Controller
 103c 3223 Smart Array P800
 103c 3234 P400 SAS Controller
 103c 3235 P400i SAS Controller
 103c 3237 E500 SAS Controller
3238 Smart
Array E200i (SAS Controller)
4030 zx2 System Bus Adapter
4031 zx2 I/O Controller
4037 PCIe Local Bus Adapter
403b PCIe Root Port
60e8 NetRAID-2M : ZX1/M (OEM AMI MegaRAID 493)
103e Solliday Engineering
103f Synopsys/Logic Modeling Group
1040 Accelgraphics Inc.
1041 Computrend
1042 Micron
 1000 PC Tech RZ1000
 1001 PC Tech RZ1001
 3000 Samurai_0
 3010 Samurai_1
 3020 Samurai_IDE
1043 ASUSTeK Computer Inc.
 0675 ISDNLink P-IN100-ST-D
  0675 1704 ISDN Adapter (PCI Bus, D, C)
  0675 1707 ISDN Adapter (PCI Bus, DV, W)
  10cf 105e ISDN Adapter (PCI Bus, DV, W)
 0c11 A7N8X Motherboard nForce2 IDE/USB/SMBus
 4015 v7100 SDRAM [GeForce2 MX]
 4021 v7100 Combo Deluxe [GeForce2 MX + TV tuner]
 4057 v8200 GeForce 3
 8043 v8240 PAL 128M [P4T] Motherboard
 8047 v8420 Deluxe [GeForce4 Ti4200]
 807b v9280/TD [Geforce4 TI4200 8X With TV-Out and DVI]
 8095 A7N8X Motherboard nForce2 AC97 Audio
 80ac A7N8X Motherboard nForce2 AGP/Memory
 80bb v9180 Magic/T [GeForce4 MX440
 AGP 8x 64MB TV-out]
 80c5 nForce3 chipset motherboard [SK8N]
 80df v9520 Magic/T

815a A8N-SLI Motherboard nForce4 SATA
8168 Realtek PCI-E Gigabit Ethernet Controller (RTL8111B)
8187 802.11a/b/g Wireless LAN Card
8188 Tiger Hybrid TV Capture Device
81f4 EN7300TC512/TD/128M/A(C262G) [Graphics Card EN7300TC512]
1044 Adaptec (formerly DPT)
1012 Domino RAID Engine
a400 SmartCache/Raid I-IV Controller
a500 PCI Bridge
a501 SmartRAID V Controller
1044 c001 PM1554U2 Ultra2 Single Channel
1044 c002 PM1654U2 Ultra2 Single Channel
1044 c003 PM1564U3 Ultra3 Single Channel
1044 c004 PM1564U3 Ultra3 Dual Channel
1044 c005 PM1554U2 Ultra2 Single Channel (NON ACPI)
1044 c00a PM2554U2 Ultra2 Single Channel
1044 c00b PM2654U2 Ultra2 Single Channel
1044 c00c PM2664U3 Ultra3 Single Channel
1044 c00d PM2664U3 Ultra3 Dual Channel
1044 c00e PM2554U2 Ultra2 Single Channel (NON ACPI)
1044 c00f PM2654U2 Ultra2 Single Channel (NON ACPI)
1044 c014 PM3754U2 Ultra2
Single Channel (NON ACPI)
1044 c015 PM3755U2B Ultra2 Single Channel (NON ACPI)
1044 c016 PM3755F Fibre Channel (NON ACPI)
1044 c01e PM3757U2 Ultra2 Single Channel
1044 c01f PM3757U2 Ultra2 Dual Channel
1044 c020 PM3767U3 Ultra3 Dual Channel
1044 c021 PM3767U3 Ultra3 Quad Channel
1044 c028 PM2865U3 Ultra3 Single Channel
1044 c029 PM2865U3 Ultra3 Dual Channel
1044 c02a PM2865F Fibre Channel
1044 c03c 2000S Ultra3 Single Channel
1044 c03d 2000S Ultra3 Dual Channel
1044 c03e 2000F Fibre Channel
1044 c046 3000S Ultra3 Single Channel
1044 c047 3000S Ultra3 Dual Channel
1044 c048 3000F Fibre Channel
1044 c050 5000S Ultra3 Single Channel
1044 c051 5000S Ultra3 Dual Channel
1044 c052 5000F Fibre Channel
1044 c05a 2400A UDMA Four Channel
1044 c05b 2400A UDMA Four Channel DAC
1044 c064 3010S Ultra3 Dual Channel
1044 c065 3410S Ultra160 Four Channel
1044 c066 3010S Fibre Channel
a511 SmartRAID V Controller
1044 c032 ASR-2005S

I2O Zero Channel
1044 c035 ASR-2010S I2O Zero Channel
1045 OPTi Inc.
a0f8 82C750 [Vendetta] USB Controller
c101 92C264
c178 92C178
c556 82X556 [Viper]
c557 82C557 [Viper-M]
c558 82C558 [Viper-M ISA+IDE]
c567 82C750 [Vendetta], device 0
c568 82C750 [Vendetta], device 1
c569 82C579 [Viper XPress+ Chipset]
c621 82C621 [Viper-M/N+]
c700 82C700 [FireStar]
c701 82C701 [FireStar Plus]
c814 82C814 [Firebridge 1]
c822 82C822
c824 82C824
c825 82C825 [Firebridge 2]
c832 82C832
c861 82C861
c895 82C895
c935 EV1935 ECTIVA MachOne PCIAudio
d568 82C825 [Firebridge 2]
d721 IDE [FireStar]
1046 IPC Corporation, Ltd.
1047 Genoa Systems Corp
1048 Elsa AG
0c60 Gladiac MX
0d22 Quadro4 900XGL [ELSA GLoria4 900XGL]
1000 QuickStep 1000
3000 QuickStep 3000
8901 Gloria XL
1048 0935 GLoria XL (Virge)
1049 Fountain Technologies, Inc.
nee SGS Thomson Microelectronics
104a STMicroelectronics
0008 STG 2000X
0009 STG 1764X
0010 STG4000 [3D
Prophet Kyro Series]
0209 STPC Consumer/Industrial North- and Southbridge
020a STPC Atlas/ConsumerS/Consumer IIA Northbridge
0210 STPC Atlas ISA Bridge
021a STPC Consumer S Southbridge
021b STPC Consumer IIA Southbridge
0500 ST70137 [Unicorn] ADSL DMT Transceiver
104a 0500 BeWAN ADSL PCI st

0564 STPC Client Northbridge
0981 21x4x DEC-Tulip compatible 10/100 Ethernet
1746 STG 1764X
2774 21x4x DEC-Tulip compatible 10/100 Ethernet
3520 MPEG-II decoder card
55cc STPC Client Southbridge
104b BusLogic
0140 BT-946C (old) [multimaster 01]
1040 BT-946C (BA80C30) [MultiMaster 10]
8130 Flashpoint LT
104c Texas Instruments
0500 100 MBit LAN Controller
0508 TMS380C2X Compressor Interface
1000 Eagle i/f AS
104c PCI1510 PC card Cardbus Controller
3d04 TVP4010 [Permedia]
3d07 TVP4020 [Permedia 2]
1011 4d10 Comet
1040 000f AccelStar II
1040 0011 AccelStar II
1048 0a31 WINNER 2000
1048 0a32 GLoria Synergy
1048 0a34 GLoria Synergy
1048
0a35 GLoria Synergy
1048 0a36 GLoria Synergy
1048 0a43 GLoria Synergy
1048 0a44 GLoria Synergy
107d 2633 WinFast 3D L2300
1092 0127 FIRE GL 1000 PRO
1092 0136 FIRE GL 1000 PRO
1092 0141 FIRE GL 1000 PRO
1092 0146 FIRE GL 1000 PRO
1092 0148 FIRE GL 1000 PRO
1092 0149 FIRE GL 1000 PRO
1092 0152 FIRE GL 1000 PRO
1092 0154 FIRE GL 1000 PRO
1092 0155 FIRE GL 1000 PRO
1092 0156 FIRE GL 1000 PRO
1092 0157 FIRE GL 1000 PRO
1097 3d01 Jeronimo Pro
1102 100f Graphics Blaster Extreme
3d3d 0100 Reference Permedia 2 3D
8000 PCILynx/PCILynx2 IEEE 1394 Link Layer Controller
e4bf 1010 CF1-1-SNARE
e4bf 1020 CF1-2-SNARE
8009 FireWire Controller
104d 8032 8032 OHCI i.LINK (IEEE 1394) Controller

8017 PCI4410 FireWire Controller
8019 TSB12LV23 IEEE-1394 Controller
 11bd 000a Studio DV500-1394
 11bd 000e Studio DV
 e4bf 1010 CF2-1-CYMBAL
8020 TSB12LV26 IEEE-1394 Controller (Link)
 11bd 000f Studio DV500-1394
 11bd 001c Excalibur
4.1
8021 TSB43AA22 IEEE-1394 Controller (PHY/Link Integrated)
 104d 80df Vaio PCG-FX403
 104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
8022 TSB43AB22 IEEE-1394a-2000 Controller (PHY/Link)
8023 TSB43AB22/A IEEE-1394a-2000 Controller (PHY/Link)
 103c 088c NC8000 laptop
 1043 808b K8N4-E Mainboard
 1043 815b P5W DH Deluxe Motherboard
8024 TSB43AB23 IEEE-1394a-2000 Controller (PHY/Link)
8025 TSB82AA2 IEEE-1394b Link Layer Controller
 1458 1000 GA-K8N Ultra-9 Mainboard
8026 TSB43AB21 IEEE-1394a-2000 Controller (PHY/Link)
 1025 003c Aspire 2001WLCi (Compaq CL50 motherboard)
 103c 006a NX9500
 1043 808d A7V333 mainboard.
8027 PCI4451 IEEE-1394 Controller
 1028 00e6 PCI4451 IEEE-1394 Controller (Dell Inspiron 8100)
8029 PCI4510 IEEE-1394 Controller
 1028 0163 Latitude D505
 1028 0196 Inspiron 5160
 1071 8160 MIM2900
802b PCI7410,7510,7610 OHCI-Lynx Controller
 1028 0139 Latitude D400
 1028 014e PCI7410,7510,7610 OHCI-Lynx Controller
(Latitude D800)
802e PCI7x20 1394a-2000 OHCI Two-Port PHY/Link-Layer Controller
8031 PCIxx21/x515 Cardbus Controller
 1025 0080 Aspire 5024WLMi
 103c 099c NX6110/NC6120
 103c 308b MX6125
8032 OHCI Compliant IEEE 1394 Host Controller
 1025 0080 Aspire 5024WLMi
 103c 099c NX6110/NC6120
 103c 308b MX6125
8033 PCIxx21 Integrated FlashMedia Controller
 1025 0080 Aspire 5024WLMi
 103c 099c NX6110/NC6120
 103c 308b MX6125
8034 PCI6411/6421/6611/6621/7411/7421/7611/7621 Secure Digital Controller

1025 0080 Aspire 5024WLMi
103c 099c NX6110/NC6120
103c 308b MX6125
8035 PCI6411/6421/6611/6621/7411/7421/7611/7621 Smart Card Controller
103c 099c NX6110/NC6120
8036 PCI6515 Cardbus Controller
8038 PCI6515 SmartCard Controller
8039 PCIxx12 Cardbus Controller
103c 309f nx9420
103c 30a1 NC2400
803a PCIxx12 OHCI Compliant IEEE 1394 Host Controller
103c 309f nx9420
103c 30a1 NC2400
803b 5-in-1 Multimedia Card Reader (SD/MMC/MS/MS PRO/xD)
103c
309f nx9420
803c PCIxx12 SDA Standard Compliant SD Host Controller
103c 309f nx9420
803d PCIxx12 GemCore based SmartCard controller
103c 309f nx9420
103c 30a1 NC2400
8201 PCI1620 Firmware Loading Function
8204 PCI7410,7510,7610 PCI Firmware Loading Function
1028 0139 Latitude D400
1028 014e Latitude D800
8231 XIO2000(A)/XIO2200(A) PCI Express-to-PCI Bridge
8235 XIO2200(A) IEEE-1394a-2000 Controller (PHY/Link)
8400 ACX 100 22Mbps Wireless Interface
1186 3b00 DWL-650+ PC Card cardbus 22Mbs Wireless Adapter [AirPlus]
1186 3b01 DWL-520+ 22Mbps PCI Wireless Adapter
16ab 8501 WL-8305 IEEE802.11b+ Wireless LAN PCI Adapter
8401 ACX 100 22Mbps Wireless Interface
9000 Wireless Interface (of unknown type)
9065 TMS320DM642
9066 ACX 111 54Mbps Wireless Interface
104c 9066 Trendnet TEW-421PC Wireless PCI Adapter
1186 3b04 DWL-G520+ Wireless PCI Adapter
1186 3b05 DWL-G650+ AirPlusG+ CardBus Wireless LAN
13d1 aba0 SWLMP-54108 108Mbps Wireless
mini PCI card 802.11g+
1737 0033 WPC54G Ver.2 802.11G PC Card
a001 TDC1570
a100 TDC1561
a102 TNETA1575 HyperSAR Plus w/PCI Host i/f & UTOPIA i/f
a106 TMS320C6414 TMS320C6415 TMS320C6416
175c 5000 ASI50xx Audio Adapter
175c 6400 ASI6400 Cobranet series
175c 8700 ASI87xx Radio Tuner card

ac10 PCI1050
ac11 PCI1053
ac12 PCI1130
ac13 PCI1031
ac15 PCI1131
ac16 PCI1250
 1014 0092 ThinkPad 600
ac17 PCI1220
ac18 PCI1260
ac19 PCI1221
ac1a PCI1210
ac1b PCI1450
 0e11 b113 Armada M700
 1014 0130 Thinkpad T20/T22/A21m
ac1c PCI1225
 0e11 b121 Armada E500
 1028 0088 Latitude CPi A400XT
ac1d PCI1251A
ac1e PCI1211
ac1f PCI1251B
ac20 TI 2030
ac21 PCI2031
ac22 PCI2032 PCI Docking Bridge
ac23 PCI2250 PCI-to-PCI Bridge
ac28 PCI2050 PCI-to-PCI Bridge
ac30 PCI1260 PC card Cardbus Controller
ac40 PCI4450 PC card Cardbus Controller
ac41 PCI4410 PC card Cardbus Controller
ac42 PCI4451 PC card Cardbus Controller
 1028 00e6 PCI4451
PC card CardBus Controller (Inspiron 8100)
ac44 PCI4510 PC card Cardbus Controller
 1028 0149 Inspiron 5100
 1028 0163 Latitude D505
 1028 0196 Inspiron 5160
 1071 8160 MIM2000
ac46 PCI4520 PC card Cardbus Controller
ac47 PCI7510 PC card Cardbus Controller
 1028 0139 Latitude D400
 1028 013f Precision M60
 1028 014e Latitude D800
ac4a PCI7510,7610 PC card Cardbus Controller
 1028 0139 Latitude D400
 1028 014e Latitude D800
ac50 PCI1410 PC card Cardbus Controller
ac51 PCI1420 PC card Cardbus Controller
 0e11 004e Evo N600c
 1014 0148 ThinkPad A20m

1014 023b ThinkPad T23 (2647-4MG)
1028 00b1 Latitude C600
1028 012a Latitude C640
1033 80cd Versa Note VXi
1095 10cf Fujitsu-Siemens LifeBook C Series
10cf 1095 Lifebook S-4510/C6155
e4bf 1000 CP2-2-HIPHOP
ac52 PCI1451 PC card Cardbus Controller
ac53 PCI1421 PC card Cardbus Controller
ac54 PCI1620 PC Card Controller
103c 08b0 tc1100 tablet
ac55 PCI1520 PC card Cardbus Controller
1014
0512 ThinkPad T30/T40
ac56 PCI1510 PC card Cardbus Controller
1014 0512 Thinkpad R50e model 1634
1014 0528 ThinkPad R40e (2684-HVG) Cardbus Controller
17aa 2012 ThinkPad T60/R60 series
ac60 PCI2040 PCI to DSP Bridge Controller
175c 5100 ASI51xx Audio Adapter
175c 6100 ASI61xx Audio Adapter
175c 6200 ASI62xx Audio Adapter
175c 8800 ASI88xx Audio Adapter
ac8d PCI 7620
ac8e PCI7420 CardBus Controller
ac8f PCI7420/7620 Combo CardBus, 1394a-2000 OHCI and SD/MS-Pro Controller
1028 018d Inspiron 700m
fe00 FireWire Host Controller
fe03 12C01A FireWire Host Controller
104d Sony Corporation
8004 DTL-H2500 [Playstation development board]
8009 CXD1947Q i.LINK Controller
8039 CXD3222 i.LINK Controller
8056 Rockwell HCF 56K modem
808a Memory Stick Controller
104e Oak Technology, Inc
0017 OTI-64017
0107 OTI-107 [Spitfire]
0109 Video Adapter
0111 OTI-64111 [Spitfire]
0217 OTI-64217
0317 OTI-64317
104f Co-time Computer Ltd
1050
Winbond Electronics Corp
0000 NE2000
0001 W83769F
0033 W89C33D 802.11 a/b/g BB/MAC

0105 W82C105
0840 W89C840
 1050 0001 W89C840 Ethernet Adapter
 1050 0840 W89C840 Ethernet Adapter
0940 W89C940
5a5a W89C940F
6692 W6692
 1043 1702 ISDN Adapter (PCI Bus, D, W)
 1043 1703 ISDN Adapter (PCI Bus, DV, W)
 1043 1707 ISDN Adapter (PCI Bus, DV, W)
 144f 1702 ISDN Adapter (PCI Bus, D, W)
 144f 1703 ISDN Adapter (PCI Bus, DV, W)
 144f 1707 ISDN Adapter (PCI Bus, DV, W)
9921 W99200F MPEG-1 Video Encoder
9922 W99200F/W9922PF MPEG-1/2 Video Encoder
9970 W9970CF
1051 Anigma, Inc.
1052 ?Young Micro Systems
1053 Young Micro Systems
1054 Hitachi, Ltd
 3011 ColdFusion 3e Chipset Processor to I/O Controller
 3012 ColdFusion 3e Chipset Memory Controller Hub
1055 Efar Microsystems
 9130 SLC90E66 [Victory66] IDE
 9460 SLC90E66 [Victory66] ISA
 9462 SLC90E66 [Victory66] USB
 9463 SLC90E66 [Victory66] ACPI
1056 ICL
Motorola made a mistake and used 1507 instead
 of 1057 in some chips. Please look at the 1507 entry as well when updating this.
1057 Motorola
 0001 MPC105 [Eagle]
 0002 MPC106 [Grackle]
 0003 MPC8240 [Kahlua]
 0004 MPC107
 0006 MPC8245 [Unity]
 0008 MPC8540
 0009 MPC8560
 0012 MPC8548 [PowerQUICC III]
 0100 MC145575 [HFC-PCI]
 0431 KTI829c 100VG
 1073 Nokia N770
 1219 Nokia N800
 1801 DSP56301 Digital Signal Processor
 14fb 0101 Transas Radar Imitator Board [RIM]
 14fb 0102 Transas Radar Imitator Board [RIM-2]
 14fb 0202 Transas Radar Integrator Board [RIB-2]
 14fb 0611 1 channel CAN bus Controller [CanPci-1]

14fb 0612 2 channels CAN bus Controller [CanPci-2]
14fb 0613 3 channels CAN bus Controller [CanPci-3]
14fb 0614 4 channels CAN bus Controller [CanPci-4]
14fb 0621 1 channel CAN bus Controller [CanPci2-1]
14fb 0622 2 channels CAN bus Controller [CanPci2-2]
14fb 0810 Transas VTS Radar Integrator Board [RIB-4]
175c 4200 ASI4215 Audio Adapter
175c 4300 ASI43xx Audio Adapter
175c
4400 ASI4401 Audio Adapter
ecc0 0010 Darla
ecc0 0020 Gina
ecc0 0030 Layla rev.0
ecc0 0031 Layla rev.1
ecc0 0040 Darla24 rev.0
ecc0 0041 Darla24 rev.1
ecc0 0050 Gina24 rev.0
ecc0 0051 Gina24 rev.1
ecc0 0070 Mona rev.0
ecc0 0071 Mona rev.1
ecc0 0072 Mona rev.2
18c0 MPC8265A/8266/8272
18c1 MPC8271/MPC8272
3052 SM56 Data Fax Modem
3055 SM56 Data Fax Modem
3410 DSP56361 Digital Signal Processor
ecc0 0050 Gina24 rev.0
ecc0 0051 Gina24 rev.1
ecc0 0060 Layla24
ecc0 0070 Mona rev.0
ecc0 0071 Mona rev.1
ecc0 0072 Mona rev.2
ecc0 0080 Mia rev.0
ecc0 0081 Mia rev.1
ecc0 0090 Indigo
ecc0 00a0 Indigo IO
ecc0 00b0 Indigo DJ
ecc0 0100 3G
4801 Raven
4802 Falcon
4803 Hawk
4806 CPX8216
4d68 20268
5600 SM56 PCI Modem
1057 0300 SM56 PCI Speakerphone Modem
1057 0301 SM56 PCI Voice Modem
1057 0302 SM56 PCI Fax Modem
1057 5600 SM56 PCI Voice modem

13d2 0300 SM56 PCI Speakerphone Modem
13d2 0301 SM56 PCI
Voice modem
13d2 0302 SM56 PCI Fax Modem
1436 0300 SM56 PCI Speakerphone Modem
1436 0301 SM56 PCI Voice modem
1436 0302 SM56 PCI Fax Modem
144f 100c SM56 PCI Fax Modem
1494 0300 SM56 PCI Speakerphone Modem
1494 0301 SM56 PCI Voice modem
14c8 0300 SM56 PCI Speakerphone Modem
14c8 0302 SM56 PCI Fax Modem
1668 0300 SM56 PCI Speakerphone Modem
1668 0302 SM56 PCI Fax Modem
5608 Wildcard X100P
5803 MPC5200
5806 MCF54 Coldfire
5808 MPC8220
5809 MPC5200B
6400 MPC190 Security Processor (S1 family, encryption)
6405 MPC184 Security Processor (S1 family)
1058 Electronics & Telecommunications RSH
1059 Teknor Industrial Computers Inc
105a Promise Technology, Inc.
0d30 PDC20265 (FastTrak100 Lite/Ultra100)
1043 8042 AV7266-E South Bridge Promise RAID
105a 4d33 Ultra100
0d38 20263
105a 4d39 Fasttrak66
1275 20275
3318 PDC20318 (SATA150 TX4)
3319 PDC20319 (FastTrak S150 TX4)
8086 3427 S875WP1-E mainboard
3371 PDC20371 (FastTrak
S150 TX2plus)
3373 PDC20378 (FastTrak 378/SATA 378)
1043 80f5 K8V Deluxe/PC-DL Deluxe motherboard
1462 702e K8T NEO FIS2R motherboard
3375 PDC20375 (SATA150 TX2plus)
3376 PDC20376 (FastTrak 376)
1043 809e A7V8X motherboard
3515 PDC40719 [FastTrak TX4300/TX4310]
3519 PDC40519 (FastTrak TX4200)
3570 20771 (FastTrak TX2300)
3571 PDC20571 (FastTrak TX2200)
3574 PDC20579 SATAII 150 IDE Controller
3577 PDC40779 (SATA 300 779)
3d17 PDC40718 (SATA 300 TX4)

3d18 PDC20518/PDC40518 (SATAII 150 TX4)
3d73 PDC40775 (SATA 300 TX2plus)
3d75 PDC20575 (SATAII150 TX2plus)
4302 80333 [SuperTrak EX4350]
4d30 PDC20267 (FastTrak100/Ultra100)
 105a 4d33 Ultra100
 105a 4d39 FastTrak100
 8086 5744 S845WD1-E mainboard
4d33 20246
 105a 4d33 20246 IDE Controller
4d38 PDC20262 (FastTrak66/Ultra66)
 105a 4d30 Ultra Device on SuperTrak
 105a 4d33 Ultra66
 105a 4d39 FastTrak66
4d68 PDC20268 (Ultra100 TX2)
 105a 4d68 Ultra100TX2
4d69 20269
 105a 4d68 Ultra133TX2
5275
 PDC20276 (MBFastTrak133 Lite)
 1043 807e A7V333 motherboard.
 105a 0275 SuperTrak SX6000 IDE
 105a 1275 MBFastTrak133 Lite (tm) Controller (RAID mode)
 1458 b001 MBUltra 133
5300 DC5300
6268 PDC20270 (FastTrak100 LP/TX2/TX4)
 105a 4d68 FastTrak100 TX2
6269 PDC20271 (FastTrak TX2000)
 105a 6269 FastTrak TX2/TX2000
6621 PDC20621 (FastTrak S150 SX4/FastTrak SX4000 lite)
6622 PDC20621 [SATA150 SX4] 4 Channel IDE RAID Controller
6624 PDC20621 [FastTrak SX4100]
6626 PDC20618 (Ultra 618)
6629 PDC20619 (FastTrak TX4000)
7275 PDC20277 (SBFastTrak133 Lite)
8002 SATAII150 SX8
8350 80333 [SuperTrak EX8350/EX16350], 80331 [SuperTrak EX8300/EX16300]
8650 81348 [SuperTrak EX4650/EX8650/EX8654/EX4650EL]
 105a 4600 SuperTrak EX4650
 105a 4610 SuperTrak EX4650EL
 105a 8601 SuperTrak EX8650
 105a 8602 SuperTrak EX8654
c350 80333 [SuperTrak EX12350]
e350 80333 [SuperTrak EX24350]
105b Foxconn International, Inc.
 0c4d SiS AC'97 Sound Controller
105c

Wipro Infotech Limited
105d Number 9 Computer Company
2309 Imagine 128
2339 Imagine 128-II
105d 0000 Imagine 128 series 2 4Mb VRAM
105d 0001 Imagine 128 series 2 4Mb VRAM
105d 0002 Imagine 128 series 2 4Mb VRAM
105d 0003 Imagine 128 series 2 4Mb VRAM
105d 0004 Imagine 128 series 2 4Mb VRAM
105d 0005 Imagine 128 series 2 4Mb VRAM
105d 0006 Imagine 128 series 2 4Mb VRAM
105d 0007 Imagine 128 series 2 4Mb VRAM
105d 0008 Imagine 128 series 2e 4Mb DRAM
105d 0009 Imagine 128 series 2e 4Mb DRAM
105d 000a Imagine 128 series 2 8Mb VRAM
105d 000b Imagine 128 series 2 8Mb H-VRAM
11a4 000a Barco Metheus 5 Megapixel
13cc 0000 Barco Metheus 5 Megapixel
13cc 0004 Barco Metheus 5 Megapixel
13cc 0005 Barco Metheus 5 Megapixel
13cc 0006 Barco Metheus 5 Megapixel
13cc 0008 Barco Metheus 5 Megapixel
13cc 0009 Barco Metheus 5 Megapixel
13cc 000a Barco Metheus 5 Megapixel
13cc 000c Barco Metheus 5 Megapixel
493d Imagine 128 T2R
[Ticket to Ride]
11a4 000a Barco Metheus 5 Megapixel, Dual Head
11a4 000b Barco Metheus 5 Megapixel, Dual Head
13cc 0002 Barco Metheus 4 Megapixel, Dual Head
13cc 0003 Barco Metheus 5 Megapixel, Dual Head
13cc 0007 Barco Metheus 5 Megapixel, Dual Head
13cc 0008 Barco Metheus 5 Megapixel, Dual Head
13cc 0009 Barco Metheus 5 Megapixel, Dual Head
13cc 000a Barco Metheus 5 Megapixel, Dual Head
5348 Revolution 4
105d 0037 Revolution IV-FP AGP (For SGI 1600SW)
11a4 0028 PVS5600M
11a4 0038 PVS5600D
105e Vtech Computers Ltd
105f Infotronic America Inc
1060 United Microelectronics [UMC]
0001 UM82C881
0002 UM82C886
0101 UM8673F
0881 UM8881
0886 UM8886F
0891 UM8891A

1001 UM886A
673a UM8886BF
673b EIDE Master/DMA
8710 UM8710
886a UM8886A
8881 UM8881F
8886 UM8886F
888a UM8886A
8891 UM8891A
9017 UM9017F
9018 UM9018
9026 UM9026
e881 UM8881N
e886 UM8886N
e88a UM8886N
e891 UM8891N
1061 I.I.T.
0001 AGX016
0002 IIT3204/3501
1062
Maspar Computer Corp
1063 Ocean Office Automation
1064 Alcatel
1065 Texas Microsystems
1066 PicoPower Technology
0000 PT80C826
0001 PT86C521 [Vesuvius v1] Host Bridge
0002 PT86C523 [Vesuvius v3] PCI-ISA Bridge Master
0003 PT86C524 [Nile] PCI-to-PCI Bridge
0004 PT86C525 [Nile-II] PCI-to-PCI Bridge
0005 National PC87550 System Controller
8002 PT86C523 [Vesuvius v3] PCI-ISA Bridge Slave
1067 Mitsubishi Electric
0301 AccelGraphics AccelECLIPSE
0304 AccelGALAXY A2100 [OEM Evans & Sutherland]
0308 Tornado 3000 [OEM Evans & Sutherland]
1002 VG500 [VolumePro Volume Rendering Accelerator]
1068 Diversified Technology
1069 Mylex Corporation
0001 DAC960P
0002 DAC960PD
0010 DAC960PG
0020 DAC960LA
0050 AcceleRAID 352/170/160 support Device
1069 0050 AcceleRAID 352 support Device
1069 0052 AcceleRAID 170 support Device
1069 0054 AcceleRAID 160 support Device
b166 AcceleRAID 600/500/400/Sapphire support Device

1014 0242 iSeries 2872 DASD
IOA
1014 0266 Dual Channel PCI-X U320 SCSI Adapter
1014 0278 Dual Channel PCI-X U320 SCSI RAID Adapter
1014 02d3 Dual Channel PCI-X U320 SCSI Adapter
1014 02d4 Dual Channel PCI-X U320 SCSI RAID Adapter
1069 0200 AcceleRAID 400, Single Channel, PCI-X, U320, SCSI RAID
1069 0202 AcceleRAID Sapphire, Dual Channel, PCI-X, U320, SCSI RAID
1069 0204 AcceleRAID 500, Dual Channel, Low-Profile, PCI-X, U320, SCSI RAID
1069 0206 AcceleRAID 600, Dual Channel, PCI-X, U320, SCSI RAID
ba55 eXtremeRAID 1100 support Device
ba56 eXtremeRAID 2000/3000 support Device
1069 0030 eXtremeRAID 3000 support Device
1069 0040 eXtremeRAID 2000 support Device
ba57 eXtremeRAID 4000/5000 support Device
1069 0072 eXtremeRAID 5000 support Device
106a Aten Research Inc
106b Apple Computer Inc.
0001 Bandit PowerPC host bridge
0002 Grand Central I/O
0003 Control Video
0004 PlanB Video-In
0007 O'Hare I/O
000c DOS on Mac
000e Hydra Mac I/O
0010 Heathrow Mac I/O
0017
Paddington Mac I/O
0018 UniNorth FireWire
0019 KeyLargo USB
001e UniNorth Internal PCI
001f UniNorth PCI
0020 UniNorth AGP
0021 UniNorth GMAC (Sun GEM)
0022 KeyLargo Mac I/O
0024 UniNorth/Pangea GMAC (Sun GEM)
0025 KeyLargo/Pangea Mac I/O
0026 KeyLargo/Pangea USB
0027 UniNorth/Pangea AGP
0028 UniNorth/Pangea PCI
0029 UniNorth/Pangea Internal PCI
002d UniNorth 1.5 AGP
002e UniNorth 1.5 PCI
002f UniNorth 1.5 Internal PCI
0030 UniNorth/Pangea FireWire
0031 UniNorth 2 FireWire
106b 5811 iBook G4 2004
0032 UniNorth 2 GMAC (Sun GEM)

0033 UniNorth 2 ATA/100
0034 UniNorth 2 AGP
0035 UniNorth 2 PCI
0036 UniNorth 2 Internal PCI
003b UniNorth/Intrepid ATA/100
003e KeyLargo/Intrepid Mac I/O
003f KeyLargo/Intrepid USB
0040 K2 KeyLargo USB
0041 K2 KeyLargo Mac/IO
0042 K2 FireWire
0043 K2 ATA/100
0045 K2 HT-PCI Bridge
0046 K2 HT-PCI Bridge
0047 K2 HT-PCI Bridge
0048 K2 HT-PCI Bridge
0049 K2 HT-PCI Bridge
004b U3 AGP
004c K2
GMAC (Sun GEM)
004f Shasta Mac I/O
0050 Shasta IDE
0051 Shasta (Sun GEM)
0052 Shasta Firewire
0053 Shasta PCI Bridge
0054 Shasta PCI Bridge
0055 Shasta PCI Bridge
0058 U3L AGP Bridge
0059 U3H AGP Bridge
0066 Intrepid2 AGP Bridge
0067 Intrepid2 PCI Bridge
0068 Intrepid2 PCI Bridge
0069 Intrepid2 ATA/100
006a Intrepid2 Firewire
006b Intrepid2 GMAC (Sun GEM)
1645 Tigon3 Gigabit Ethernet NIC (BCM5701)
106c Hynix Semiconductor
8801 Dual Pentium ISA/PCI Motherboard
8802 PowerPC ISA/PCI Motherboard
8803 Dual Window Graphics Accelerator
8804 LAN Controller
8805 100-BaseT LAN
106d Sequent Computer Systems
106e DFI, Inc
106f City Gate Development Ltd
1070 Daewoo Telecom Ltd
1071 Mitac
8160 Mitac 8060B Mobile Platform
1072 GIT Co Ltd

1073 Yamaha Corporation
 0001 3D GUI Accelerator
 0002 YGV615 [RPA3 3D-Graphics Controller]
 0003 YMF-740
 0004 YMF-724
  1073 0004 YMF724-Based PCI Audio Adapter
 0005 DS1 Audio
  1073 0005 DS-XG PCI Audio
CODEC
 0006 DS1 Audio
 0008 DS1 Audio
  1073 0008 DS-XG PCI Audio CODEC
 000a DS1L Audio
  1073 0004 DS-XG PCI Audio CODEC
  1073 000a DS-XG PCI Audio CODEC
 000c YMF-740C [DS-1L Audio Controller]
  107a 000c DS-XG PCI Audio CODEC
 000d YMF-724F [DS-1 Audio Controller]
  1073 000d DS-XG PCI Audio CODEC
 0010 YMF-744B [DS-1S Audio Controller]
  1073 0006 DS-XG PCI Audio CODEC
  1073 0010 DS-XG PCI Audio CODEC
 0012 YMF-754 [DS-1E Audio Controller]
  1073 0012 DS-XG PCI Audio Codec
 0020 DS-1 Audio
 1000 SW1000XG [XG Factory]
 2000 DS2416 Digital Mixing Card
  1073 2000 DS2416 Digital Mixing Card
1074 NexGen Microsystems
 4e78 82c500/1
1075 Advanced Integrations Research
1076 Chaintech Computer Co. Ltd
1077 QLogic Corp.
 1016 ISP10160 Single Channel Ultra3 SCSI Processor
 1020 ISP1020 Fast-wide SCSI
 1022 ISP1022 Fast-wide SCSI
 1080 ISP1080 SCSI Host Adapter
 1216 ISP12160 Dual Channel Ultra3 SCSI Processor
  101e 8471 QLA12160 on AMI MegaRAID
  101e 8493
QLA12160 on AMI MegaRAID
 1240 ISP1240 SCSI Host Adapter
 1280 ISP1280 SCSI Host Adapter
 2020 ISP2020A Fast!SCSI Basic Adapter
 2100 QLA2100 64-bit Fibre Channel Adapter
  1077 0001 QLA2100 64-bit Fibre Channel Adapter
 2200 QLA2200 64-bit Fibre Channel Adapter
  1077 0002 QLA2200

2300 QLA2300 64-bit Fibre Channel Adapter
2312 ISP2312-based 2Gb Fibre Channel to PCI-X HBA
103c 0131 2Gb Fibre Channel - Single port [A7538A]
103c 12ba 2Gb Fibre Channel - Dual port [A6826A]
2322 ISP2322-based 2Gb Fibre Channel to PCI-X HBA
2422 ISP2422-based 4Gb Fibre Channel to PCI-X HBA
103c 12d7 4Gb Fibre Channel [AB379A]
103c 12dd 4Gb Fibre Channel [AB429A]
2432 ISP2432-based 4Gb Fibre Channel to PCI Express HBA
3022 ISP4022-based Ethernet NIC
3032 ISP4032-based Ethernet IPv6 NIC
4010 ISP4010-based iSCSI TOE HBA
4022 ISP4022-based iSCSI TOE HBA
4032 ISP4032-based iSCSI TOE IPv6 HBA
5432 SP232-based 4Gb Fibre Channel to PCI Express HBA
6312 SP202-based 2Gb Fibre
Channel to PCI-X HBA
6322 SP212-based 2Gb Fibre Channel to PCI-X HBA
1078 Cyrix Corporation
0000 5510 [Grappa]
0001 PCI Master
0002 5520 [Cognac]
0100 5530 Legacy [Kahlua]
0101 5530 SMI [Kahlua]
0102 5530 IDE [Kahlua]
0103 5530 Audio [Kahlua]
0104 5530 Video [Kahlua]
0400 ZFMicro PCI Bridge
0401 ZFMicro Chipset SMI
0402 ZFMicro Chipset IDE
0403 ZFMicro Expansion Bus
1079 I-Bus
107a NetWorth
107b Gateway 2000
107c LG Electronics [Lucky Goldstar Co. Ltd]
107d LeadTek Research Inc.
0000 P86C850
204d [GeForce 7800 GTX] Winfast PX7800 GTX TDH
2134 WinFast 3D S320 II
2971 [GeForce FX 5900] WinFast A350 TDH MyViVo
107e Interphase Corporation
0001 5515 ATM Adapter [Flipper]
0002 100 VG AnyLan Controller
0004 5526 Fibre Channel Host Adapter
0005 x526 Fibre Channel Host Adapter
0008 5525/5575 ATM Adapter (155 Mbit) [Atlantic]
9003 5535-4P-BRI-ST
9007 5535-4P-BRI-U

9008 5535-1P-SR
900c 5535-1P-SR-ST
900e 5535-1P-SR-U
9011 5535-1P-PRI
9013
 5535-2P-PRI
9023 5536-4P-BRI-ST
9027 5536-4P-BRI-U
9031 5536-1P-PRI
9033 5536-2P-PRI
107f Data Technology Corporation
0802 SL82C105
1080 Contaq Microsystems
0600 82C599
c691 Cypress CY82C691
c693 82c693
1081 Supermac Technology
0d47 Radius PCI to NuBUS Bridge
1082 EFA Corporation of America
1083 Forex Computer Corporation
0001 FR710
1084 Parador
1085 Tulip Computers Int.B.V.
1086 J. Bond Computer Systems
1087 Cache Computer
1088 Microcomputer Systems (M) Son
1089 Data General Corporation
Formerly Bit3 Computer Corp.
108a SBS Technologies
0001 VME Bridge Model 617
0010 VME Bridge Model 618
0040 dataBLIZZARD
3000 VME Bridge Model 2706
108c Oakleigh Systems Inc.
108d Olicom
0001 Token-Ring 16/4 PCI Adapter (3136/3137)
0002 16/4 Token Ring
0004 RapidFire 3139 Token-Ring 16/4 PCI Adapter
 108d 0004 OC-3139/3140 RapidFire Token-Ring 16/4 Adapter
0005 GoCard 3250 Token-Ring 16/4 CardBus PC Card
0006 OC-3530 RapidFire Token-Ring
100
0007 RapidFire 3141 Token-Ring 16/4 PCI Fiber Adapter
 108d 0007 OC-3141 RapidFire Token-Ring 16/4 Adapter
0008 RapidFire 3540 HSTR 100/16/4 PCI Adapter
 108d 0008 OC-3540 RapidFire HSTR 100/16/4 Adapter
0011 OC-2315
0012 OC-2325

0013 OC-2183/2185
0014 OC-2326
0019 OC-2327/2250 10/100 Ethernet Adapter
108d 0016 OC-2327 Rapidfire 10/100 Ethernet Adapter
108d 0017 OC-2250 GoCard 10/100 Ethernet Adapter
0021 OC-6151/6152 [RapidFire ATM 155]
0022 ATM Adapter
108e Sun Microsystems Computer Corp.
0001 EBUS
1000 EBUS
1001 Happy Meal
1100 RIO EBUS
1101 RIO GEM
1102 RIO 1394
1103 RIO USB
1648 [bge] Gigabit Ethernet
2bad GEM
5000 Simba Advanced PCI Bridge
108e 5000 Netra AX1105-500
5043 SunPCI Co-processor
676e SunPCiIII
7063 SunPCiII / SunPCiIIpro
8000 Psycho PCI Bus Module
8001 Schizo PCI Bus Module
8002 Schizo+ PCI Bus Module
a000 Ultra IIi
a001 Ultra IIe
108e a001 Netra AX1105-500
a801 Tomatillo PCI Bus Module
abba
Cassini 10/100/1000
108f Systemsoft
1090 Compro Computer Services, Inc.
1091 Intergraph Corporation
0020 3D graphics processor
0021 3D graphics processor w/Texturing
0040 3D graphics frame buffer
0041 3D graphics frame buffer
0060 Proprietary bus bridge
00e4 Powerstorm 4D50T
0720 Motion JPEG codec
07a0 Sun Expert3D-Lite Graphics Accelerator
1091 Sun Expert3D Graphics Accelerator
1092 Diamond Multimedia Systems
00a0 Speedstar Pro SE
00a8 Speedstar 64
0550 Viper V550
08d4 Supra 2260 Modem

094c SupraExpress 56i Pro
1092 Viper V330
6120 Maximum DVD
8810 Stealth SE
8811 Stealth 64/SE
8880 Stealth
8881 Stealth
88b0 Stealth 64
88b1 Stealth 64
88c0 Stealth 64
88c1 Stealth 64
88d0 Stealth 64
88d1 Stealth 64
88f0 Stealth 64
88f1 Stealth 64
9999 DMD-I0928-1 "Monster sound" sound chip
1093 National Instruments
0160 PCI-DIO-96
0162 PCI-MIO-16XE-50
1150 PCI-DIO-32HS High Speed Digital I/O Board
1170 PCI-MIO-16XE-10
1180 PCI-MIO-16E-1
1190
PCI-MIO-16E-4
1310 PCI-6602
1330 PCI-6031E
1350 PCI-6071E
14e0 PCI-6110
14f0 PCI-6111
17d0 PCI-6503
1870 PCI-6713
1880 PCI-6711
18b0 PCI-6052E
2410 PCI-6733
2890 PCI-6036E
2a60 PCI-6023E
2a70 PCI-6024E
2a80 PCI-6025E
2c80 PCI-6035E
2ca0 PCI-6034E
70a9 PCI-6528 (Digital I/O at 60V)
70b8 PCI-6251 [M Series - High Speed Multifunction DAQ]
b001 IMAQ-PCI-1408
b011 IMAQ-PXI-1408
b021 IMAQ-PCI-1424
b031 IMAQ-PCI-1413
b041 IMAQ-PCI-1407
b051 IMAQ-PXI-1407

b061 IMAQ-PCI-1411
b071 IMAQ-PCI-1422
b081 IMAQ-PXI-1422
b091 IMAQ-PXI-1411
c801 PCI-GPIB
c831 PCI-GPIB bridge
1094 First International Computers [FIC]
nee CMD Technology Inc
1095 Silicon Image, Inc.
0240 Adaptec AAR-1210SA SATA HostRAID Controller
0640 PCI0640
0643 PCI0643
0646 PCI0646
0647 PCI0647
0648 PCI0648
1043 8025 CUBX motherboard
0649 SiI 0649 Ultra ATA/100 PCI to ATA Host Controller
0e11 005d Integrated Ultra ATA-100 Dual Channel Controller
0e11
007e Integrated Ultra ATA-100 IDE RAID Controller
101e 0649 AMI MegaRAID IDE 100 Controller
0650 PBC0650A
0670 USB0670
1095 0670 USB0670
0673 USB0673
0680 PCI0680 Ultra ATA-133 Host Controller
1095 3680 Winic W-680 (Silicon Image 680 based)
3112 SiI 3112 [SATALink/SATARaid] Serial ATA Controller
1095 3112 SiI 3112 SATALink Controller
1095 6112 SiI 3112 SATARaid Controller
9005 0250 SATAConnect 1205SA Host Controller
3114 SiI 3114 [SATALink/SATARaid] Serial ATA Controller
1095 3114 SiI 3114 SATALink Controller
1095 6114 SiI 3114 SATARaid Controller
3124 SiI 3124 PCI-X Serial ATA Controller
1095 3124 SiI 3124 PCI-X Serial ATA Controller
3132 SiI 3132 Serial ATA Raid II Controller
3512 SiI 3512 [SATALink/SATARaid] Serial ATA Controller
1095 3512 SiI 3512 SATALink Controller
1095 6512 SiI 3512 SATARaid Controller
1096 Alacron
1097 Appian Technology
1098 Quantum Designs (H.K.) Ltd
0001 QD-8500
0002 QD-8580
1099 Samsung
Electronics Co., Ltd
109a Packard Bell

109b Gemlight Computer Ltd.
109c Megachips Corporation
109d Zida Technologies Ltd.
109e Brooktree Corporation
 032e Bt878 Video Capture
 0350 Bt848 Video Capture
 0351 Bt849A Video capture
 0369 Bt878 Video Capture
  1002 0001 TV-Wonder
  1002 0003 TV-Wonder/VE
 036c Bt879(??) Video Capture
  13e9 0070 Win/TV (Video Section)
 036e Bt878 Video Capture
  0070 13eb WinTV Series
  0070 ff01 Viewcast Osprey 200
  0071 0101 DigiTV PCI
  107d 6606 WinFast TV 2000
  11bd 0012 PCTV pro (TV + FM stereo receiver)
  11bd 001c PCTV Sat (DBC receiver)
  127a 0001 Bt878 Mediastream Controller NTSC
  127a 0002 Bt878 Mediastream Controller PAL BG
  127a 0003 Bt878a Mediastream Controller PAL BG
  127a 0048 Bt878/832 Mediastream Controller
  144f 3000 MagicTView CPH060 - Video
  1461 0002 TV98 Series (TV/No FM/Remote)
  1461 0003 AverMedia UltraTV PCI 350
  1461 0004 AVerTV WDM Video Capture
  1461 0761 AverTV DVB-T
  1461 0771 AverMedia
AVerTV DVB-T 771
  14f1 0001 Bt878 Mediastream Controller NTSC
  14f1 0002 Bt878 Mediastream Controller PAL BG
  14f1 0003 Bt878a Mediastream Controller PAL BG
  14f1 0048 Bt878/832 Mediastream Controller
  1822 0001 VisionPlus DVB card
  1851 1850 FlyVideo'98 - Video
  1851 1851 FlyVideo II
  1852 1852 FlyVideo'98 - Video (with FM Tuner)
  18ac d500 DViCO FusionHDTV5 Lite
  270f fc00 Digitop DTT-1000
  bd11 1200 PCTV pro (TV + FM stereo receiver)
 036f Bt879 Video Capture
  127a 0044 Bt879 Video Capture NTSC
  127a 0122 Bt879 Video Capture PAL I
  127a 0144 Bt879 Video Capture NTSC
  127a 0222 Bt879 Video Capture PAL BG
  127a 0244 Bt879a Video Capture NTSC
  127a 0322 Bt879 Video Capture NTSC

127a 0422 Bt879 Video Capture NTSC
127a 1122 Bt879 Video Capture PAL I
127a 1222 Bt879 Video Capture PAL BG
127a 1322 Bt879 Video Capture NTSC
127a 1522 Bt879a Video Capture PAL I
127a 1622 Bt879a Video Capture PAL BG
127a 1722 Bt879a Video Capture NTSC
14f1
0044 Bt879 Video Capture NTSC
14f1 0122 Bt879 Video Capture PAL I
14f1 0144 Bt879 Video Capture NTSC
14f1 0222 Bt879 Video Capture PAL BG
14f1 0244 Bt879a Video Capture NTSC
14f1 0322 Bt879 Video Capture NTSC
14f1 0422 Bt879 Video Capture NTSC
14f1 1122 Bt879 Video Capture PAL I
14f1 1222 Bt879 Video Capture PAL BG
14f1 1322 Bt879 Video Capture NTSC
14f1 1522 Bt879a Video Capture PAL I
14f1 1622 Bt879a Video Capture PAL BG
14f1 1722 Bt879a Video Capture NTSC
1851 1850 FlyVideo'98 - Video
1851 1851 FlyVideo II
1852 1852 FlyVideo'98 - Video (with FM Tuner)
0370 Bt880 Video Capture
1851 1850 FlyVideo'98
1851 1851 FlyVideo'98 EZ - video
1852 1852 FlyVideo'98 (with FM Tuner)
0878 Bt878 Audio Capture
0070 13eb WinTV Series
0070 ff01 Viewcast Osprey 200
0071 0101 DigiTV PCI
1002 0001 TV-Wonder
1002 0003 TV-Wonder/VE
11bd 0012 PCTV pro (TV + FM stereo receiver, audio section)
11bd 001c PCTV Sat (DBC receiver)
127a
0001 Bt878 Video Capture (Audio Section)
127a 0002 Bt878 Video Capture (Audio Section)
127a 0003 Bt878 Video Capture (Audio Section)
127a 0048 Bt878 Video Capture (Audio Section)
13e9 0070 Win/TV (Audio Section)
144f 3000 MagicTView CPH060 - Audio
1461 0002 Avermedia PCTV98 Audio Capture
1461 0003 UltraTV PCI 350
1461 0004 AVerTV WDM Audio Capture
1461 0761 AVerTV DVB-T
1461 0771 AverMedia AVerTV DVB-T 771

14f1 0001 Bt878 Video Capture (Audio Section)
14f1 0002 Bt878 Video Capture (Audio Section)
14f1 0003 Bt878 Video Capture (Audio Section)
14f1 0048 Bt878 Video Capture (Audio Section)
1822 0001 VisionPlus DVB Card
18ac d500 DViCO FusionHDTV5 Lite
270f fc00 Digitop DTT-1000
bd11 1200 PCTV pro (TV + FM stereo receiver, audio section)
0879 Bt879 Audio Capture
127a 0044 Bt879 Video Capture (Audio Section)
127a 0122 Bt879 Video Capture (Audio Section)
127a 0144 Bt879 Video Capture (Audio Section)
127a 0222 Bt879
Video Capture (Audio Section)
127a 0244 Bt879 Video Capture (Audio Section)
127a 0322 Bt879 Video Capture (Audio Section)
127a 0422 Bt879 Video Capture (Audio Section)
127a 1122 Bt879 Video Capture (Audio Section)
127a 1222 Bt879 Video Capture (Audio Section)
127a 1322 Bt879 Video Capture (Audio Section)
127a 1522 Bt879 Video Capture (Audio Section)
127a 1622 Bt879 Video Capture (Audio Section)
127a 1722 Bt879 Video Capture (Audio Section)
14f1 0044 Bt879 Video Capture (Audio Section)
14f1 0122 Bt879 Video Capture (Audio Section)
14f1 0144 Bt879 Video Capture (Audio Section)
14f1 0222 Bt879 Video Capture (Audio Section)
14f1 0244 Bt879 Video Capture (Audio Section)
14f1 0322 Bt879 Video Capture (Audio Section)
14f1 0422 Bt879 Video Capture (Audio Section)
14f1 1122 Bt879 Video Capture (Audio Section)
14f1 1222 Bt879 Video Capture (Audio Section)
14f1 1322 Bt879 Video Capture (Audio Section)
14f1 1522 Bt879 Video Capture (Audio
Section)
14f1 1622 Bt879 Video Capture (Audio Section)
14f1 1722 Bt879 Video Capture (Audio Section)
0880 Bt880 Audio Capture
2115 BtV 2115 Mediastream controller
2125 BtV 2125 Mediastream controller
2164 BtV 2164
2165 BtV 2165
8230 Bt8230 ATM Segment/Reassembly Ctrlr (SRC)
8472 Bt8472
8474 Bt8474
109f Trigem Computer Inc.
10a0 Meidensha Corporation
10a1 Juko Electronics Ind. Co. Ltd

10a2 Quantum Corporation
10a3 Everex Systems Inc
10a4 Globe Manufacturing Sales
10a5 Smart Link Ltd.
3052 SmartPCI562 56K Modem
5449 SmartPCI561 modem
10a6 Informtech Industrial Ltd.
10a7 Benchmarq Microelectronics
10a8 Sierra Semiconductor
0000 STB Horizon 64
10a9 Silicon Graphics, Inc.
0001 Crosstalk to PCI Bridge
0002 Linc I/O controller
0003 IOC3 I/O controller
0004 O2 MACE
0005 RAD Audio
0006 HPCEX
0007 RPCEX
0008 DiVO VIP
0009 AceNIC Gigabit Ethernet
10a9 8002 AceNIC Gigabit Ethernet
0010 AMP Video I/O
0011 GRIP
0012 SGH PSHAC GSN
1001
Magic Carpet
1002 Lithium
1003 Dual JPEG 1
1004 Dual JPEG 2
1005 Dual JPEG 3
1006 Dual JPEG 4
1007 Dual JPEG 5
1008 Cesium
100a IOC4 I/O controller
2001 Fibre Channel
2002 ASDE
4001 TIO-CE PCI Express Bridge
4002 TIO-CE PCI Express Port
8001 O2 1394
8002 G-net NT
8010 Broadcom e-net [SGI IO9/IO10 BaseIO]
8018 Broadcom e-net [SGI A330 Server BaseIO]
10aa ACC Microelectronics
0000 ACCM 2188
10ab Digicom
10ac Honeywell IAC
10ad Symphony Labs
0001 W83769F

0003 SL82C103
0005 SL82C105
0103 SL82c103
0105 SL82c105
0565 W83C553
10ae Cornerstone Technology
10af Micro Computer Systems Inc
10b0 CardExpert Technology
10b1 Cabletron Systems Inc
10b2 Raytheon Company
10b3 Databook Inc
3106 DB87144
b106 DB87144
10b4 STB Systems Inc
1b1d Velocity 128 3D
10b4 237e Velocity 4400
10b5 PLX Technology, Inc.
0001 i960 PCI bus interface
1042 Brandywine / jxi2, Inc. - PMC-SyncClock32, IRIG A & B, Nasa 36
1076 VScom 800 8 port serial
adaptor
1077 VScom 400 4 port serial adaptor
1078 VScom 210 2 port serial and 1 port parallel adaptor
1103 VScom 200 2 port serial adaptor
1146 VScom 010 1 port parallel adaptor
1147 VScom 020 2 port parallel adaptor
2540 IXXAT CAN-Interface PC-I 04/PCI
2724 Thales PCSM Security Card
6520 PCI6520 PCI-X to PCI-X bridge
6540 PCI6540/6466 PCI-PCI bridge (transparent mode)
1775 1100 CR11 Single Board Computer
4c53 10e0 PSL09 PrPMC
6541 PCI6540/6466 PCI-PCI bridge (non-transparent mode, primary side)
1775 1100 CR11 Single Board Computer
4c53 10e0 PSL09 PrPMC
6542 PCI6540/6466 PCI-PCI bridge (non-transparent mode, secondary side)
1775 1100 CR11 Single Board Computer
4c53 10e0 PSL09 PrPMC
8111 PEX 8111 PCI Express-to-PCI Bridge
8114 PEX 8114 PCI Express-to-PCI/PCI-X Bridge
8516 PEX 8516 Versatile PCI Express Switch
8532 PEX 8532 Versatile PCI Express Switch
9030 PCI <-> IOBus Bridge Hot Swap
10b5 2862 Alpermann+Velte PCL PCI LV (3V/5V):
Timecode Reader Board
10b5 2906 Alpermann+Velte PCI TS (3V/5V): Time Synchronisation Board
10b5 2940 Alpermann+Velte PCL PCI D (3V/5V): Timecode Reader Board
10b5 2977 IXXAT iPC-I XC16/PCI CAN Board

10b5 2978 SH ARC-PCIu SOHARD ARCNET card
10b5 3025 Alpermann+Velte PCL PCI L (3V/5V): Timecode Reader Board
10b5 3068 Alpermann+Velte PCL PCI HD (3V/5V): Timecode Reader Board
12fe 0111 CPCI-ASIO4 (ESD 4-port Serial Interface Board)
1397 3136 4xS0-ISDN PCI Adapter
1397 3137 S2M-E1-ISDN PCI Adapter
1518 0200 Kontron ThinkIO-C
15ed 1002 MCCS 8-port Serial Hot Swap
15ed 1003 MCCS 16-port Serial Hot Swap
9036 9036
9050 PCI <-> IOBus Bridge
10b5 1067 IXXAT CAN i165
10b5 1172 IK220 (Heidenhain)
10b5 2036 SatPak GPS
10b5 2221 Alpermann+Velte PCL PCI LV: Timecode Reader Board
10b5 2273 SH ARC-PCI SOHARD ARCNET card
10b5 2431 Alpermann+Velte PCL PCI D: Timecode Reader Board
10b5 2905 Alpermann+Velte PCI TS: Time Synchronisation Board
10b5
9050 PCI-I04 PCI Passive PC/CAN Interface
1498 0362 TPMC866 8 Channel Serial Card
1522 0001 RockForce 4 Port V.90 Data/Fax/Voice Modem
1522 0002 RockForce 2 Port V.90 Data/Fax/Voice Modem
1522 0003 RockForce 6 Port V.90 Data/Fax/Voice Modem
1522 0004 RockForce 8 Port V.90 Data/Fax/Voice Modem
1522 0010 RockForce2000 4 Port V.90 Data/Fax/Voice Modem
1522 0020 RockForce2000 2 Port V.90 Data/Fax/Voice Modem
15ed 1000 Macrolink MCCS 8-port Serial
15ed 1001 Macrolink MCCS 16-port Serial
15ed 1002 Macrolink MCCS 8-port Serial Hot Swap
15ed 1003 Macrolink MCCS 16-port Serial Hot Swap
5654 2036 OpenSwitch 6 Telephony card
5654 3132 OpenSwitch 12 Telephony card
5654 5634 OpenLine4 Telephony Card
d531 c002 PCIntelliCAN 2xSJA1000 CAN bus
d84d 4006 EX-4006 1P
d84d 4008 EX-4008 1P EPP/ECP
d84d 4014 EX-4014 2P
d84d 4018 EX-4018 3P EPP/ECP
d84d 4025 EX-4025 1S(16C550) RS-232
d84d 4027 EX-4027 1S(16C650) RS-232
d84d 4028 EX-4028 1S(16C850)
RS-232
d84d 4036 EX-4036 2S(16C650) RS-232
d84d 4037 EX-4037 2S(16C650) RS-232
d84d 4038 EX-4038 2S(16C850) RS-232
d84d 4052 EX-4052 1S(16C550) RS-422/485
d84d 4053 EX-4053 2S(16C550) RS-422/485

d84d 4055 EX-4055 4S(16C550) RS-232
d84d 4058 EX-4055 4S(16C650) RS-232
d84d 4065 EX-4065 8S(16C550) RS-232
d84d 4068 EX-4068 8S(16C650) RS-232
d84d 4078 EX-4078 2S(16C552) RS-232+1P
9054 PCI <-> IOBus Bridge
10b5 2455 Wessex Techology PHIL-PCI
10b5 2696 Innes Corp AM Radcap card
10b5 2717 Innes Corp Auricon card
10b5 2844 Innes Corp TVS Encoder card
12c7 4001 Intel Dialogic DM/V960-4T1 PCI
12d9 0002 PCI Prosody Card rev 1.5
14b4 d100 Dektec DTA-100
14b4 d114 Dektec DTA-120
16df 0011 PIKA PrimeNet MM PCI
16df 0012 PIKA PrimeNet MM cPCI 8
16df 0013 PIKA PrimeNet MM cPCI 8 (without CAS Signaling)
16df 0014 PIKA PrimeNet MM cPCI 4
16df 0015 PIKA Daytona MM
16df 0016 PIKA InLine MM
9056 9056 PCI I/O Accelerator
10b5
2979 CellinkBlade 11 - CPCI board VoATM AAL1
14b4 d140 Dektec DTA-140
9060 9060
906d 9060SD
125c 0640 Aries 16000P
906e 9060ES
9080 9080
103c 10eb (Agilent) E2777B 83K Series Optical Communication Interface
103c 10ec (Agilent) E6978-66442 PCI CIC
10b5 1123 Sectra KK631 encryption board
10b5 9080 9080 [real subsystem ID not set]
129d 0002 Aculab PCI Prosidy card
12d9 0002 PCI Prosody Card
12df 4422 4422PCI ["Do-All" Telemetry Data Aquisition System]
1517 000b ECSG-1R3ADC-PMC Clock synthesizer
9656 PCI <-> IOBus Bridge
1517 000f ECDR-GC314-PMC Receiver
1885 0700 Tsunami FPGA PMC with Altera Stratix S40
1885 0701 Tsunami FPGA PMC with Altera Stratix S30
bb04 B&B 3PCIOSD1A Isolated PCI Serial
c001 CronyxOmega-PCI (8-port RS232)
10b6 Madge Networks
0001 Smart 16/4 PCI Ringnode
0002 Smart 16/4 PCI Ringnode Mk2
10b6 0002 Smart 16/4 PCI Ringnode Mk2
10b6 0006 16/4 CardBus Adapter

0003 Smart 16/4 PCI Ringnode Mk3
 0e11 b0fd
 Compaq NC4621 PCI, 4/16, WOL
 10b6 0003 Smart 16/4 PCI Ringnode Mk3
 10b6 0007 Presto PCI Plus Adapter
0004 Smart 16/4 PCI Ringnode Mk1
0006 16/4 Cardbus Adapter
 10b6 0006 16/4 CardBus Adapter
0007 Presto PCI Adapter
 10b6 0007 Presto PCI
0009 Smart 100/16/4 PCI-HS Ringnode
 10b6 0009 Smart 100/16/4 PCI-HS Ringnode
000a Smart 100/16/4 PCI Ringnode
 10b6 000a Smart 100/16/4 PCI Ringnode
000b 16/4 CardBus Adapter Mk2
 10b6 0008 16/4 CardBus Adapter Mk2
 10b6 000b 16/4 Cardbus Adapter Mk2
000c RapidFire 3140V2 16/4 TR Adapter
 10b6 000c RapidFire 3140V2 16/4 TR Adapter
1000 Collage 25/155 ATM Client Adapter
1001 Collage 155 ATM Server Adapter
10b7 3Com Corporation
0001 3c985 1000BaseSX (SX/TX)
0013 AR5212 802.11abg NIC (3CRDAG675)
 10b7 2031 3CRDAG675 11a/b/g Wireless PCI Adapter
0910 3C910-A01
1006 MINI PCI type 3B Data Fax Modem
1007 Mini PCI 56k Winmodem
 10b7 615b Mini PCI 56K Modem
 10b7 615c Mini PCI 56K Modem
1201 3c982-TXM 10/100baseTX
Dual Port A [Hydra]
1202 3c982-TXM 10/100baseTX Dual Port B [Hydra]
1700 3c940 10/100/1000Base-T [Marvell]
 1043 80eb A7V600/P4P800/K8V motherboard
 10b7 0010 3C940 Gigabit LOM Ethernet Adapter
 10b7 0020 3C941 Gigabit LOM Ethernet Adapter
 147b 1407 KV8-MAX3 motherboard
3390 3c339 TokenLink Velocity
3590 3c359 TokenLink Velocity XL
 10b7 3590 TokenLink Velocity XL Adapter (3C359/359B)
4500 3c450 HomePNA [Tornado]
5055 3c555 Laptop Hurricane
5057 3c575 Megahertz 10/100 LAN CardBus [Boomerang]
 10b7 5a57 3C575 Megahertz 10/100 LAN Cardbus PC Card
5157 3cCFE575BT Megahertz 10/100 LAN CardBus [Cyclone]
 10b7 5b57 3C575 Megahertz 10/100 LAN Cardbus PC Card
5257 3cCFE575CT CardBus [Cyclone]

10b7 5c57 FE575C-3Com 10/100 LAN CardBus-Fast Ethernet
5900 3c590 10BaseT [Vortex]
5920 3c592 EISA 10mbps Demon/Vortex
5950 3c595 100BaseTX [Vortex]
5951 3c595 100BaseT4 [Vortex]
5952 3c595 100Base-MII [Vortex]
5970 3c597 EISA Fast Demon/Vortex
5b57
 3c595 Megahertz 10/100 LAN CardBus [Boomerang]
 10b7 5b57 3C575 Megahertz 10/100 LAN Cardbus PC Card
6000 3CRSHPW796 [OfficeConnect Wireless CardBus]
6001 3com 3CRWE154G72 [Office Connect Wireless LAN Adapter]
6055 3c556 Hurricane CardBus [Cyclone]
6056 3c556B CardBus [Tornado]
 10b7 6556 10/100 Mini PCI Ethernet Adapter
6560 3cCFE656 CardBus [Cyclone]
 10b7 656a 3CCFEM656 10/100 LAN+56K Modem CardBus
6561 3cCFEM656 10/100 LAN+56K Modem CardBus
 10b7 656b 3CCFEM656 10/100 LAN+56K Modem CardBus
6562 3cCFEM656B 10/100 LAN+Winmodem CardBus [Cyclone]
 10b7 656b 3CCFEM656B 10/100 LAN+56K Modem CardBus
6563 3cCFEM656B 10/100 LAN+56K Modem CardBus
 10b7 656b 3CCFEM656 10/100 LAN+56K Modem CardBus
6564 3cXFEM656C 10/100 LAN+Winmodem CardBus [Tornado]
7646 3cSOHO100-TX Hurricane
7770 3CRWE777 PCI(PLX) Wireless Adaptor [Airconnect]
7940 3c803 FDDILink UTP Controller
7980 3c804 FDDILink SAS Controller
7990 3c805 FDDILink DAS Controller
80eb 3c940B 10/100/1000Base-T
8811
 Token ring
9000 3c900 10BaseT [Boomerang]
9001 3c900 10Mbps Combo [Boomerang]
9004 3c900B-TPO Etherlink XL [Cyclone]
 10b7 9004 3C900B-TPO Etherlink XL TPO 10Mb
9005 3c900B-Combo Etherlink XL [Cyclone]
 10b7 9005 3C900B-Combo Etherlink XL Combo
9006 3c900B-TPC Etherlink XL [Cyclone]
900a 3c900B-FL 10base-FL [Cyclone]
9050 3c905 100BaseTX [Boomerang]
9051 3c905 100BaseT4 [Boomerang]
9054 3C905B-TX Fast Etherlink XL PCI
 10b7 9054 3C905B-TX Fast Etherlink XL PCI
9055 3c905B 100BaseTX [Cyclone]
 1028 0080 3C905B Fast Etherlink XL 10/100
 1028 0081 3C905B Fast Etherlink XL 10/100
 1028 0082 3C905B Fast Etherlink XL 10/100

1028 0083 3C905B Fast Etherlink XL 10/100
1028 0084 3C905B Fast Etherlink XL 10/100
1028 0085 3C905B Fast Etherlink XL 10/100
1028 0086 3C905B Fast Etherlink XL 10/100
1028 0087 3C905B Fast Etherlink XL 10/100
1028 0088 3C905B Fast Etherlink XL 10/100
1028 0089 3C905B Fast Etherlink XL 10/100
1028
0090 3C905B Fast Etherlink XL 10/100
1028 0091 3C905B Fast Etherlink XL 10/100
1028 0092 3C905B Fast Etherlink XL 10/100
1028 0093 3C905B Fast Etherlink XL 10/100
1028 0094 3C905B Fast Etherlink XL 10/100
1028 0095 3C905B Fast Etherlink XL 10/100
1028 0096 3C905B Fast Etherlink XL 10/100
1028 0097 3C905B Fast Etherlink XL 10/100
1028 0098 3C905B Fast Etherlink XL 10/100
1028 0099 3C905B Fast Etherlink XL 10/100
10b7 9055 3C905B Fast Etherlink XL 10/100
9056 3c905B-T4 Fast EtherLink XL [Cyclone]
9058 3c905B Deluxe Etherlink 10/100/BNC [Cyclone]
905a 3c905B-FX Fast Etherlink XL FX 100baseFx [Cyclone]
9200 3c905C-TX/TX-M [Tornado]
1028 0095 3C920 Integrated Fast Ethernet Controller
1028 0097 3C920 Integrated Fast Ethernet Controller
1028 00b4 OptiPlex GX110
1028 00fe Optiplex GX240
1028 012a 3C920 Integrated Fast Ethernet Controller [Latitude C640]
10b7 1000 3C905CX-TX/TX-M Fast Etherlink for PC Management NIC
10b7 7000 10/100
Mini PCI Ethernet Adapter
10f1 2466 Tiger MPX S2466 (3C920 Integrated Fast Ethernet Controller)
9201 3C920B-EMB Integrated Fast Ethernet Controller [Tornado]
1043 80ab A7N8X Deluxe onboard 3C920B-EMB Integrated Fast Ethernet Controller
9202 3Com 3C920B-EMB-WNM Integrated Fast Ethernet Controller
9210 3C920B-EMB-WNM Integrated Fast Ethernet Controller
9300 3CSOHO100B-TX 910-A01 [tulip]
9800 3c980-TX Fast Etherlink XL Server Adapter [Cyclone]
10b7 9800 3c980-TX Fast Etherlink XL Server Adapter
9805 3c980-C 10/100baseTX NIC [Python-T]
10b7 1201 EtherLink Server 10/100 Dual Port A
10b7 1202 EtherLink Server 10/100 Dual Port B
10b7 9805 3c980 10/100baseTX NIC [Python-T]
10f1 2462 Thunder K7 S2462
9900 3C990-TX [Typhoon]
9902 3CR990-TX-95 [Typhoon 56-bit]
9903 3CR990-TX-97 [Typhoon 168-bit]
9904 3C990B-TX-M/3C990BSVR [Typhoon2]

10b7 1000 3CR990B-TX-M [Typhoon2]
10b7 2000 3CR990BSVR [Typhoon2 Server]
9905 3CR990-FX-95/97/95 [Typhon Fiber]
10b7
1101 3CR990-FX-95 [Typhoon Fiber 56-bit]
10b7 1102 3CR990-FX-97 [Typhoon Fiber 168-bit]
10b7 2101 3CR990-FX-95 Server [Typhoon Fiber 56-bit]
10b7 2102 3CR990-FX-97 Server [Typhoon Fiber 168-bit]
9908 3CR990SVR95 [Typhoon Server 56-bit]
9909 3CR990SVR97 [Typhoon Server 168-bit]
990a 3C990SVR [Typhoon Server]
990b 3C990SVR [Typhoon Server]
10b8 Standard Microsystems Corp [SMC]
0005 83c170 EPIC/100 Fast Ethernet Adapter
1055 e000 LANEPIC 10/100 [EVB171Q-PCI]
1055 e002 LANEPIC 10/100 [EVB171G-PCI]
10b8 a011 EtherPower II 10/100
10b8 a014 EtherPower II 10/100
10b8 a015 EtherPower II 10/100
10b8 a016 EtherPower II 10/100
10b8 a017 EtherPower II 10/100
0006 83c175 EPIC/100 Fast Ethernet Adapter
1055 e100 LANEPIC Cardbus Fast Ethernet Adapter
1055 e102 LANEPIC Cardbus Fast Ethernet Adapter
1055 e300 LANEPIC Cardbus Fast Ethernet Adapter
1055 e302 LANEPIC Cardbus Fast Ethernet Adapter
10b8 a012 LANEPIC Cardbus Fast Ethernet Adapter
13a2
8002 LANEPIC Cardbus Fast Ethernet Adapter
13a2 8006 LANEPIC Cardbus Fast Ethernet Adapter
1000 FDC 37c665
1001 FDC 37C922
2802 SMC2802W [EZ Connect g]
a011 83C170QF
b106 SMC34C90
10b9 ALi Corporation
0101 CMI8338/C3DX PCI Audio Device
0111 C-Media CMI8738/C3DX Audio Device (OEM)
10b9 0111 C-Media CMI8738/C3DX Audio Device (OEM)
0780 Multi-IO Card
0782 Multi-IO Card
1435 M1435
1445 M1445
1449 M1449
1451 M1451
1461 M1461
1489 M1489
1511 M1511 [Aladdin]

1512 M1512 [Aladdin]
1513 M1513 [Aladdin]
1521 M1521 [Aladdin III]
 10b9 1521 ALI M1521 Aladdin III CPU Bridge
1523 M1523
 10b9 1523 ALI M1523 ISA Bridge
1531 M1531 [Aladdin IV]
1533 M1533/M1535 PCI to ISA Bridge [Aladdin IV/V/V+]
 1014 053b ThinkPad R40e (2684-HVG) PCI to ISA Bridge
 10b9 1533 ALi M1533 Aladdin IV/V ISA Bridge
1541 M1541
 10b9 1541 ALI M1541 Aladdin V/V+ AGP System Controller
1543 M1543
1563 M1563 HyperTransport South Bridge
1573 PCI to LPC Controller
1621
 M1621
1631 ALI M1631 PCI North Bridge Aladdin Pro III
1632 M1632M Northbridge+Trident
1641 ALI M1641 PCI North Bridge Aladdin Pro IV
1644 M1644/M1644T Northbridge+Trident
1646 M1646 Northbridge+Trident
1647 M1647 Northbridge [MAGiK 1 / MobileMAGiK 1]
1651 M1651/M1651T Northbridge [Aladdin-Pro 5/5M,Aladdin-Pro 5T/5TM]
1671 M1671 Super P4 Northbridge [AGP4X,PCI and SDR/DDR]
1672 M1672 Northbridge [CyberALADDiN-P4]
1681 M1681 P4 Northbridge [AGP8X,HyperTransport and SDR/DDR]
1687 M1687 K8 Northbridge [AGP8X and HyperTransport]
1689 M1689 K8 Northbridge [Super K8 Single Chip]
1695 M1695 K8 Northbridge [PCI Express and HyperTransport]
1697 M1697 HTT Host Bridge
3141 M3141
3143 M3143
3145 M3145
3147 M3147
3149 M3149
3151 M3151
3307 M3307
3309 M3309
3323 M3325 Video/Audio Decoder
5212 M4803
5215 MS4803
5217 M5217H
5219 M5219
5225 M5225
5228 M5228 ALi ATA/RAID Controller
5229 M5229 IDE
 1014 050f ThinkPad R30

1014 053d
ThinkPad R40e (2684-HVG) builtin IDE
103c 0024 Pavilion ze4400 builtin IDE
1043 8053 A7A266 Motherboard IDE
1849 5229 ASRock 939Dual-SATA2 Motherboard IDE (PATA)
5235 M5225
5237 USB 1.1 Controller
1014 0540 ThinkPad R40e (2684-HVG) builtin USB
103c 0024 Pavilion ze4400 builtin USB
104d 810f VAIO PCG-U1 USB/OHCI Revision 1.0
5239 USB 2.0 Controller
5243 M1541 PCI to AGP Controller
5246 AGP8X Controller
5247 PCI to AGP Controller
5249 M5249 HTT to PCI Bridge
524b PCI Express Root Port
524c PCI Express Root Port
524d PCI Express Root Port
524e PCI Express Root Port
5251 M5251 P1394 OHCI 1.0 Controller
5253 M5253 P1394 OHCI 1.1 Controller
5261 M5261 Ethernet Controller
5263 ULi 1689,1573 integrated ethernet.
5281 ALi M5281 Serial ATA / RAID Host Controller
5287 ULi 5287 SATA
5288 ULi M5288 SATA
5289 ULi 5289 SATA
5450 Lucent Technologies Soft Modem AMR
5451 M5451 PCI AC-Link Controller Audio Device
1014 0506 ThinkPad R30
1014
053e ThinkPad R40e (2684-HVG) builtin Audio
103c 0024 Pavilion ze4400 builtin Audio
10b9 5451 HP Compaq nc4010 (DY885AA#ABN)
5453 M5453 PCI AC-Link Controller Modem Device
5455 M5455 PCI AC-Link Controller Audio Device
5457 M5457 AC'97 Modem Controller
1014 0535 ThinkPad R40e (2684-HVG) builtin modem
103c 0024 Pavilion ze4400 builtin Modem Device
5459 SmartLink SmartPCI561 56K Modem
545a SmartLink SmartPCI563 56K Modem
5461 High Definition Audio/AC'97 Host Controller
5471 M5471 Memory Stick Controller
5473 M5473 SD-MMC Controller
7101 M7101 Power Management Controller [PMU]
1014 0510 ThinkPad R30
1014 053c ThinkPad R40e (2684-HVG) Power Management Controller
103c 0024 Pavilion ze4400

10ba Mitsubishi Electric Corp.
 0301 AccelGraphics AccelECLIPSE
 0304 AccelGALAXY A2100 [OEM Evans & Sutherland]
 0308 Tornado 3000 [OEM Evans & Sutherland]
 1002 VG500 [VolumePro Volume Rendering Accelerator]
10bb Dapha Electronics Corporation
10bc Advanced
 Logic Research
10bd Surecom Technology
 0e34 NE-34
10be Tseng Labs International Co.
10bf Most Inc
10c0 Boca Research Inc.
10c1 ICM Co., Ltd.
10c2 Auspex Systems Inc.
10c3 Samsung Semiconductors, Inc.
 1100 Smartether100 SC1100 LAN Adapter (i82557B)
10c4 Award Software International Inc.
10c5 Xerox Corporation
10c6 Rambus Inc.
10c7 Media Vision
10c8 Neomagic Corporation
 0001 NM2070 [MagicGraph 128]
 0002 NM2090 [MagicGraph 128V]
 0003 NM2093 [MagicGraph 128ZV]
 0004 NM2160 [MagicGraph 128XD]
  1014 00ba MagicGraph 128XD
  1025 1007 MagicGraph 128XD
  1028 0074 MagicGraph 128XD
  1028 0075 MagicGraph 128XD
  1028 007d MagicGraph 128XD
  1028 007e MagicGraph 128XD
  1033 802f MagicGraph 128XD
  104d 801b MagicGraph 128XD
  104d 802f MagicGraph 128XD
  104d 830b MagicGraph 128XD
  10ba 0e00 MagicGraph 128XD
  10c8 0004 MagicGraph 128XD
  10cf 1029 MagicGraph 128XD
  10f7 8308 MagicGraph 128XD
  10f7 8309 MagicGraph 128XD
  10f7 830b MagicGraph 128XD
  10f7
 830d MagicGraph 128XD
  10f7 8312 MagicGraph 128XD
 0005 NM2200 [MagicGraph 256AV]
  1014 00dd ThinkPad 570
  1028 0088 Latitude CPi A

0006 NM2360 [MagicMedia 256ZX]
0016 NM2380 [MagicMedia 256XL+]
10c8 0016 MagicMedia 256XL+
0025 NM2230 [MagicGraph 256AV+]
0083 NM2093 [MagicGraph 128ZV+]
8005 NM2200 [MagicMedia 256AV Audio]
0e11 b0d1 MagicMedia 256AV Audio Device on Discovery
0e11 b126 MagicMedia 256AV Audio Device on Durango
1014 00dd MagicMedia 256AV Audio Device on BlackTip Thinkpad
1025 1003 MagicMedia 256AV Audio Device on TravelMate 720
1028 0088 Latitude CPi A
1028 008f MagicMedia 256AV Audio Device on Colorado Inspiron
103c 0007 MagicMedia 256AV Audio Device on Voyager II
103c 0008 MagicMedia 256AV Audio Device on Voyager III
103c 000d MagicMedia 256AV Audio Device on Omnibook 900
10c8 8005 MagicMedia 256AV Audio Device on FireAnt
110a 8005 MagicMedia 256AV Audio Device
14c0 0004 MagicMedia 256AV Audio Device
8006
NM2360 [MagicMedia 256ZX Audio]
8016 NM2380 [MagicMedia 256XL+ Audio]
10c9 Dataexpert Corporation
10ca Fujitsu Microelectr., Inc.
10cb Omron Corporation
nee Mentor ARC Inc
10cc Mai Logic Incorporated
0660 Articia S Host Bridge
0661 Articia S PCI Bridge
10cd Advanced System Products, Inc
1100 ASC1100
1200 ASC1200 [(abp940) Fast SCSI-II]
1300 ABP940-U / ABP960-U
10cd 1310 ASC1300 SCSI Adapter
1195 1320 Ultra-SCSI CardBus PC Card REX CB31
2300 ABP940-UW
2500 ABP940-U2W
10ce Radius
nee Citicorp TTI
10cf Fujitsu Limited.
2001 mb86605
10d1 FuturePlus Systems Corp.
10d2 Molex Incorporated
10d3 Jabil Circuit Inc
10d4 Hualon Microelectronics
10d5 Autologic Inc.
10d6 Cetia
10d7 BCM Advanced Research
10d8 Advanced Peripherals Labs

10d9 Macronix, Inc. [MXIC]
0431 MX98715
0512 MX98713
0531 MX987x5
1186 1200 DFE-540TX ProFAST 10/100 Adapter
8625 MX86250
8626 Macronix MX86251 + 3Dfx Voodoo Rush
8888 MX86200
10da Compaq IPG-Austin
0508 TC4048
Token Ring 4/16
3390 Tl3c3x9
10db Rohm LSI Systems, Inc.
10dc CERN/ECP/EDU
0001 STAR/RD24 SCI-PCI (PMC)
0002 TAR/RD24 SCI-PCI (PMC)
0021 HIPPI destination
0022 HIPPI source
10dc ATT2C15-3 FPGA
10dd Evans & Sutherland
0100 Lightning 1200
10de nVidia Corporation
0008 NV1 [EDGE 3D]
0009 NV1 [EDGE 3D]
0010 NV2 [Mutara V08]
0020 NV4 [RIVA TNT]
1043 0200 V3400 TNT
1048 0c18 Erazor II SGRAM
1048 0c19 Erazor II
1048 0c1b Erazor II
1048 0c1c Erazor II
1092 0550 Viper V550
1092 0552 Viper V550
1092 4804 Viper V550
1092 4808 Viper V550
1092 4810 Viper V550
1092 4812 Viper V550
1092 4815 Viper V550
1092 4820 Viper V550 with TV out
1092 4822 Viper V550
1092 4904 Viper V550
1092 4914 Viper V550
1092 8225 Viper V550
10b4 273d Velocity 4400
10b4 273e Velocity 4400
10b4 2740 Velocity 4400
10de 0020 Riva TNT
1102 1015 Graphics Blaster CT6710

1102 1016 Graphics Blaster RIVA TNT
0028 NV5 [RIVA TNT2/TNT2 Pro]
1043
0200 AGP-V3800 SGRAM
1043 0201 AGP-V3800 SDRAM
1043 0205 PCI-V3800
1043 4000 AGP-V3800PRO
1048 0c21 Synergy II
1048 0c28 Erazor III
1048 0c29 Erazor III
1048 0c2a Erazor III
1048 0c2b Erazor III
1048 0c31 Erazor III Pro
1048 0c32 Erazor III Pro
1048 0c33 Erazor III Pro
1048 0c34 Erazor III Pro
107d 2134 WinFast 3D S320 II + TV-Out
1092 4804 Viper V770
1092 4a00 Viper V770
1092 4a02 Viper V770 Ultra
1092 5a00 RIVA TNT2/TNT2 Pro
1092 6a02 Viper V770 Ultra
1092 7a02 Viper V770 Ultra
10de 0005 RIVA TNT2 Pro
10de 000f Compaq NVIDIA TNT2 Pro
1102 1020 3D Blaster RIVA TNT2
1102 1026 3D Blaster RIVA TNT2 Digital
14af 5810 Maxi Gamer Xentor
0029 NV5 [RIVA TNT2 Ultra]
1043 0200 AGP-V3800 Deluxe
1043 0201 AGP-V3800 Ultra SDRAM
1043 0205 PCI-V3800 Ultra
1048 0c2e Erazor III Ultra
1048 0c2f Erazor III Ultra
1048 0c30 Erazor III Ultra
1102 1021 3D Blaster RIVA TNT2 Ultra
1102 1029 3D Blaster RIVA
TNT2 Ultra
1102 102f 3D Blaster RIVA TNT2 Ultra
14af 5820 Maxi Gamer Xentor 32
002a NV5 [Riva TNT2]
002b NV5 [Riva TNT2]
002c NV6 [Vanta/Vanta LT]
1043 0200 AGP-V3800 Combat SDRAM
1043 0201 AGP-V3800 Combat
1048 0c20 TNT2 Vanta
1048 0c21 TNT2 Vanta
1092 6820 Viper V730

1102 1031 CT6938 VANTA 8MB
1102 1034 CT6894 VANTA 16MB
14af 5008 Maxi Gamer Phoenix 2
002d NV5M64 [RIVA TNT2 Model 64/Model 64 Pro]
1043 0200 AGP-V3800M
1043 0201 AGP-V3800M
1048 0c3a Erazor III LT
1048 0c3b Erazor III LT
10de 001e M64 AGP4x
1102 1023 CT6892 RIVA TNT2 Value
1102 1024 CT6932 RIVA TNT2 Value 32Mb
1102 102c CT6931 RIVA TNT2 Value [Jumper]
1462 8808 MSI-8808
1554 1041 Pixelview RIVA TNT2 M64
1569 002d Palit Microsystems Daytona TNT2 M64
002e NV6 [Vanta]
002f NV6 [Vanta]
0034 MCP04 SMBus
0035 MCP04 IDE
0036 MCP04 Serial ATA Controller
0037 MCP04 Ethernet Controller
0038 MCP04 Ethernet Controller
003a MCP04 AC'97 Audio Controller
003b
MCP04 USB Controller
003c MCP04 USB Controller
003d MCP04 PCI Bridge
003e MCP04 Serial ATA Controller
0040 NV40 [GeForce 6800 Ultra]
0041 NV40 [GeForce 6800]
1043 817b V9999 Gamer Edition
0042 NV40.2 [GeForce 6800 LE]
0043 NV40.3 [GeForce 6800 XE]
0044 NV40 [GeForce 6800 XT]
0045 NV40 [GeForce 6800 GT]
0046 NV40 [GeForce 6800 GT]
0047 NV40 [GeForce 6800 GS]
1682 2109 GeForce 6800 GS
0048 NV40 [GeForce 6800 XT]
0049 NV40GL
004d NV40GL [Quadro FX 4000]
004e NV40GL [Quadro FX 4000]
0050 CK804 ISA Bridge
1043 815a K8N4-E or A8N-E Mainboard
1458 0c11 GA-K8N Ultra-9 Mainboard
1462 7100 MSI K8N Diamond
147b 1c1a KN8-Ultra Mainboard
0051 CK804 ISA Bridge

0052 CK804 SMBus
1043 815a K8N4-E or A8N-E Mainboard
1458 0c11 GA-K8N Ultra-9 Mainboard
1462 7100 MSI K8N Diamond
147b 1c1a KN8-Ultra Mainboard
0053 CK804 IDE
1043 815a K8N4-E or A8N-E Mainboard
1458 5002 GA-K8N Ultra-9 Mainboard
1462 7100 MSI K8N Diamond
147b
1c1a KN8-Ultra Mainboard
0054 CK804 Serial ATA Controller
1043 815a A8N-E Mainboard
1458 b003 GA-K8N Ultra-9 Mainboard
1462 7100 MSI K8N Diamond
147b 1c1a KN8-Ultra Mainboard
0055 CK804 Serial ATA Controller
1043 815a K8N4-E or A8N-E Mainboard
1458 b003 GA-K8N Ultra-9 Mainboard
147b 1c1a KN8-Ultra Mainboard
0056 CK804 Ethernet Controller
0057 CK804 Ethernet Controller
1043 8141 K8N4-E or A8N-E Mainboard
1458 e000 GA-K8N Ultra-9 Mainboard
1462 7100 MSI K8N Diamond
147b 1c1a KN8-Ultra Mainboard
0058 CK804 AC'97 Modem
0059 CK804 AC'97 Audio Controller
1043 812a K8N4-E or A8N-E Mainboard
147b 1c1a KN8-Ultra Mainboard
005a CK804 USB Controller
1043 815a K8N4-E or A8N-E Mainboard
1458 5004 GA-K8N Ultra-9 Mainboard
1462 7100 MSI K8N Diamond
147b 1c1a KN8-Ultra Mainboard
005b CK804 USB Controller
1043 815a K8N4-E or A8N-E Mainboard
1458 5004 GA-K8N Ultra-9 Mainboard
1462 7100 MSI K8N Diamond
147b 1c1a KN8-Ultra
Mainboard
005c CK804 PCI Bridge
005d CK804 PCIE Bridge
005e CK804 Memory Controller
1043 815a A8N-E Mainboard
10f1 2891 Thunder K8SRE Mainboard
1458 5000 GA-K8N Ultra-9 Mainboard
1462 7100 MSI K8N Diamond

147b 1c1a KN8-Ultra Mainboard
005f CK804 Memory Controller
0060 nForce2 ISA Bridge
1043 80ad A7N8X Mainboard
a0a0 03ba UK79G-1394 motherboard
0064 nForce2 SMBus (MCP)
a0a0 03bb UK79G-1394 motherboard
0065 nForce2 IDE
a0a0 03b2 UK79G-1394 motherboard
0066 nForce2 Ethernet Controller
1043 80a7 A7N8X Mainboard onboard nForce2 Ethernet
0067 nForce2 USB Controller
1043 0c11 A7N8X Mainboard
0068 nForce2 USB Controller
1043 0c11 A7N8X Mainboard
a0a0 03b4 UK79G-1394 motherboard
006a nForce2 AC97 Audio Controler (MCP)
1043 8095 nForce2 AC97 Audio Controler (MCP)
a0a0 0304 UK79G-1394 motherboard
006b nForce Audio Processing Unit
10de 006b nForce2 MCP Audio Processing Unit
006c nForce2 External PCI Bridge
006d nForce2
PCI Bridge
006e nForce2 FireWire (IEEE 1394) Controller
a0a0 0306 UK79G-1394 motherboard
0080 MCP2A ISA bridge
147b 1c09 NV7 Motherboard
0084 MCP2A SMBus
147b 1c09 NV7 Motherboard
0085 MCP2A IDE
147b 1c09 NV7 Motherboard
0086 MCP2A Ethernet Controller
0087 MCP2A USB Controller
147b 1c09 NV7 Motherboard
0088 MCP2A USB Controller
147b 1c09 NV7 Motherboard
008a MCP2S AC'97 Audio Controller
147b 1c09 NV7 Motherboard
008b MCP2A PCI Bridge
008c MCP2A Ethernet Controller
008e nForce2 Serial ATA Controller
0090 G70 [GeForce 7800 GTX]
0091 G70 [GeForce 7800 GTX]
0092 G70 [GeForce 7800 GT]
0093 G70 [GeForce 7800 GS]
0098 G70 [GeForce Go 7800]
0099 G70 [GeForce Go 7800 GTX]

009d G70GL [Quadro FX 4500]
00a0 NV5 [Aladdin TNT2]
 14af 5810 Maxi Gamer Xentor
00c0 NV41 [GeForce 6800 GS]
00c1 NV41.1 [GeForce 6800]
00c2 NV41.2 [GeForce 6800 LE]
00c3 NV42 [GeForce 6800 XT]
00c8 NV41.8 [GeForce Go 6800]
00c9 NV41.9 [GeForce Go
6800 Ultra]
00cc NV41 [Quadro FX Go1400]
00cd NV41 [Quadro FX 3450/4000 SDI]
 10de 029b wx4300 Workstation
00ce NV41GL [Quadro FX 1400]
00d0 nForce3 LPC Bridge
00d1 nForce3 Host Bridge
00d2 nForce3 AGP Bridge
00d3 CK804 Memory Controller
00d4 nForce3 SMBus
00d5 nForce3 IDE
00d6 nForce3 Ethernet
00d7 nForce3 USB 1.1
00d8 nForce3 USB 2.0
00d9 nForce3 Audio
00da nForce3 Audio
00dd nForce3 PCI Bridge
00df CK8S Ethernet Controller
 1043 80a7 K8N-E
 105b 0c43 Winfast NF3250K8AA
 147b 1c0b NF8 Mainboard
00e0 nForce3 250Gb LPC Bridge
 1043 813f K8N-E
 10de 0c11 Winfast NF3250K8AA
 1462 7030 K8N Neo-FSR v2.0
 147b 1c0b NF8 Mainboard
00e1 nForce3 250Gb Host Bridge
 1043 813f K8N-E
 1462 7030 K8N Neo-FSR v2.0
 147b 1c0b NF8 Mainboard
00e2 nForce3 250Gb AGP Host to PCI Bridge
00e3 CK8S Serial ATA Controller (v2.5)
 1043 813f K8N-E
 105b 0c43 Winfast NF3250K8AA
 147b 1c0b NF8 Mainboard
00e4 nForce 250Gb PCI System Management
 1043
813f K8N-E
 105b 0c43 Winfast NF3250K8AA

1462 7030 K8N Neo-FSR v2.0
147b 1c0b NF8 Mainboard
00e5 CK8S Parallel ATA Controller (v2.5)
1043 813f K8N-E
105b 0c43 Winfast NF3250K8AA
1462 7030 K8N Neo-FSR v2.0
147b 1c0b NF8 Mainboard
00e6 CK8S Ethernet Controller
00e7 CK8S USB Controller
1043 813f K8N-E
105b 0c43 Winfast NF3250K8AA
1462 7030 K8N Neo-FSR v2.0
147b 1c0b NF8 Mainboard
00e8 nForce3 EHCI USB 2.0 Controller
1043 813f K8N-E
105b 0c43 Winfast NF3250K8AA
1462 7030 K8N Neo-FSR v2.0
147b 1c0b NF8 Mainboard
00ea nForce3 250Gb AC'97 Audio Controller
1043 819d K8N-E
105b 0c43 Winfast NF3250K8AA
1462 b010 K8N Neo-FSR v2.0
147b 1c0b NF8 Mainboard
00ed nForce3 250Gb PCI-to-PCI Bridge
00ee CK8S Serial ATA Controller (v2.5)
00f0 NV40 [GeForce 6800 Ultra]
00f1 NV43 [GeForce 6600 GT]
1043 81a6 N6600GT TD 128M AGP
1458 3150 GV-N66T128VP
1682 2119 GeForce 6600 GT AGP 128MB DDR3 DUAL DVI TV
00f2 NV43 [GeForce
6600]
1682 211c GeForce 6600 256MB DDR DUAL DVI TV
00f3 NV43 [GeForce 6200]
00f4 NV43 [GeForce 6600 LE]
00f5 G70 [GeForce 7800 GS]
00f6 NV43 [GeForce 6800 GS]
1682 217e XFX GeForce 6800 XTreme 256MB DDR3 AGP
00f8 NV45GL [Quadro FX 3400/4400]
00f9 NV45 [GeForce 6800 GTO]
1682 2120 GEFORCE 6800 GT PCI-E
00fa NV36 [GeForce PCX 5750]
00fb NV35 [GeForce PCX 5900]
00fc NV37GL [Quadro FX 330/GeForce PCX 5300]
00fd NV37GL [Quadro PCI-E Series]
00fe NV38GL [Quadro FX 1300]
00ff NV18 [GeForce PCX 4300]
0100 NV10 [GeForce 256 SDR]

1043 0200 AGP-V6600 SGRAM
1043 0201 AGP-V6600 SDRAM
1043 4008 AGP-V6600 SGRAM
1043 4009 AGP-V6600 SDRAM
1048 0c41 Erazor X
1048 0c43 ERAZOR X PCI
1048 0c48 Synergy Force
1102 102d CT6941 GeForce 256
14af 5022 3D Prophet SE
0101 NV10DDR [GeForce 256 DDR]
1043 0202 AGP-V6800 DDR
1043 400a AGP-V6800 DDR SGRAM
1043 400b AGP-V6800 DDR SDRAM
1048 0c42 Erazor X
107d 2822 WinFast GeForce 256
1102 102e
CT6971 GeForce 256 DDR
14af 5021 3D Prophet DDR-DVI
0103 NV10GL [Quadro]
1048 0c40 GLoria II-64
1048 0c44 GLoria II
1048 0c45 GLoria II
1048 0c4a GLoria II-64 Pro
1048 0c4b GLoria II-64 Pro DVII
0110 NV11 [GeForce2 MX/MX 400]
1043 4015 AGP-V7100 Pro
1043 4021 V7100 Deluxe Combo
1043 4031 V7100 Pro with TV output
1048 0c60 Gladiac MX
1048 0c61 Gladiac 511PCI
1048 0c63 Gladiac 511TV-OUT 32MB
1048 0c64 Gladiac 511TV-OUT 64MB
1048 0c65 Gladiac 511TWIN
1048 0c66 Gladiac 311
10de 0091 Dell OEM GeForce 2 MX 400
10de 00a1 Apple OEM GeForce2 MX
1462 8817 MSI GeForce2 MX400 Pro32S [MS-8817]
14af 7102 3D Prophet II MX
14af 7103 3D Prophet II MX Dual-Display
0111 NV11DDR [GeForce2 MX200]
0112 NV11 [GeForce2 Go]
0113 NV11GL [Quadro2 MXR/EX/Go]
0140 NV43 [GeForce 6600 GT]
0141 NV43 [GeForce 6600]
1043 81b0 EN6600 Silencer
1458 3124 GV-NX66128DP Turbo Force Edition
0142 NV43 [GeForce 6600 LE]
0143 NV43 [GeForce 6600

VE]
0144 NV43 [GeForce Go 6600]
0145 NV43 [GeForce 6610 XL]
0146 NV43 [Geforce Go 6600TE/6200TE]
0147 GeForce 6700 XL
0148 NV43 [GeForce Go 6600]
0149 NV43 [GeForce Go 6600 GT]
014a Quadro NVS 440
014c Quadro FX 540 MXM
014d NV18GL [Quadro FX 550]
014e NV43GL [Quadro FX 540]
014f NV43 [GeForce 6200]
0150 NV15 [GeForce2 GTS/Pro]
1043 4016 V7700 AGP Video Card
1048 0c50 Gladiac
1048 0c52 Gladiac-64
107d 2840 WinFast GeForce2 GTS with TV output
107d 2842 WinFast GeForce 2 Pro
10de 002e GeForce2 GTS
1462 8831 Creative GeForce2 Pro
0151 NV15DDR [GeForce2 Ti]
1043 405f V7700Ti
1462 5506 Creative 3D Blaster Geforce2 Titanium
0152 NV15BR [GeForce2 Ultra, Bladerunner]
1048 0c56 GLADIAC Ultra
0153 NV15GL [Quadro2 Pro]
0160 GeForce 6500
0161 NV44 [GeForce 6200 TurboCache(TM)]
0162 NV44 [GeForce 6200SE TurboCache (TM)]
0163 NV44 [GeForce 6200 LE]
0164 NV44 [GeForce Go 6200]
0165 NV44 [Quadro NVS 285]
0166 NV43 [GeForce Go
6400]
0167 NV43 [GeForce Go 6200/6400]
0168 NV43 [GeForce Go 6200/6400]
0169 GeForce 6250
016a GeForce 7100 GS
0170 NV17 [GeForce4 MX 460]
0171 NV17 [GeForce4 MX 440]
10b0 0002 Gainward Pro/600 TV
10de 0008 Apple OEM GeForce4 MX 440
1462 8661 G4MX440-VTP
1462 8730 MX440SES-T (MS-8873)
1462 8852 GeForce4 MX440 PCI
147b 8f00 Abit Siluro GeForce4MX440
0172 NV17 [GeForce4 MX 420]
0173 NV17 [GeForce4 MX 440-SE]

0174 NV17 [GeForce4 440 Go]
0175 NV17 [GeForce4 420 Go]
0176 NV17 [GeForce4 420 Go 32M]
 103c 08b0 tc1100 tablet
 4c53 1090 Cx9 / Vx9 mainboard
0177 NV17 [GeForce4 460 Go]
0178 NV17GL [Quadro4 550 XGL]
0179 NV17 [GeForce4 440 Go 64M]
 10de 0179 GeForce4 MX (Mac)
017a NV17GL [Quadro NVS]
017b NV17GL [Quadro4 550 XGL]
017c NV17GL [Quadro4 500 GoGL]
017d NV17 [GeForce4 410 Go 16M]
0181 NV18 [GeForce4 MX 440 AGP 8x]
 1043 8063 GeForce4 MX 440 AGP 8X
 1043 806f V9180 Magic
 1462 8880 MS-StarForce GeForce4 MX 440 with AGP8X
 1462
8900 MS-8890 GeForce 4 MX440 AGP8X
 1462 9350 MSI Geforce4 MX T8X with AGP8X
 147b 8f0d Siluro GF4 MX-8X
0182 NV18 [GeForce4 MX 440SE AGP 8x]
0183 NV18 [GeForce4 MX 420 AGP 8x]
0184 NV18 [GeForce4 MX]
0185 NV18 [GeForce4 MX 4000]
0186 NV18M [GeForce4 448 Go]
0187 NV18M [GeForce4 488 Go]
0188 NV18GL [Quadro4 580 XGL]
018a NV18GL [Quadro NVS with AGP8X]
018b NV18GL [Quadro4 380 XGL]
018c NV18GL [Quadro NVS 50 PCI]
018d NV18M [GeForce4 448 Go]
0191 G80 [GeForce 8800 GTX]
0193 G80 [GeForce 8800 GTS]
019d G80 [Quadro FX 5600]
019e G80 [Quadro FX 4600]
01a0 NVCrush11 [GeForce2 MX Integrated Graphics]
01a4 nForce CPU bridge
01ab nForce 420 Memory Controller (DDR)
01ac nForce 220/420 Memory Controller
01ad nForce 220/420 Memory Controller
01b0 nForce Audio
01b1 nForce Audio
01b2 nForce ISA Bridge
01b4 nForce PCI System Management
01b7 nForce AGP to PCI Bridge
01b8 nForce PCI-to-PCI bridge
01bc nForce IDE

01c1 nForce AC'97
Modem Controller
01c2 nForce USB Controller
01c3 nForce Ethernet Controller
01d1 G72 [GeForce 7300 LE]
 1462 0345 7300LE PCI Express Graphics Adapter
01d3 G72 [GeForce 7300 SE]
01d6 GeForce Go 7200
01d7 G72M [Quadro NVS 110M/GeForce Go 7300]
01d8 G72M [GeForce Go 7400]
01da G72M [Quadro NVS 110M]
01dc G72GL [Quadro FX 350M]
01dd G72 [GeForce 7500 LE]
01de G72GL [Quadro FX 350]
 10de 01dc Quadro FX Go350M
01df G71 [GeForce 7300 GS]
01e0 nForce2 AGP (different version?)
 147b 1c09 NV7 Motherboard
01e8 nForce2 AGP
01ea nForce2 Memory Controller 0
 a0a0 03b9 UK79G-1394 motherboard
01eb nForce2 Memory Controller 1
 a0a0 03b9 UK79G-1394 motherboard
01ec nForce2 Memory Controller 2
 a0a0 03b9 UK79G-1394 motherboard
01ed nForce2 Memory Controller 3
 a0a0 03b9 UK79G-1394 motherboard
01ee nForce2 Memory Controller 4
 a0a0 03b9 UK79G-1394 motherboard
01ef nForce2 Memory Controller 5
 a0a0 03b9 UK79G-1394 motherboard
01f0 NV18 [GeForce4
MX - nForce GPU]
 a0a0 03b5 UK79G-1394 motherboard
0200 NV20 [GeForce3]
 1043 402f AGP-V8200 DDR
 1048 0c70 GLADIAC 920
0201 NV20 [GeForce3 Ti 200]
0202 NV20 [GeForce3 Ti 500]
 1043 405b V8200 T5
 1545 002f Xtasy 6964
0203 NV20DCC [Quadro DCC]
0211 NV40 [GeForce 6800]
0212 NV40 [GeForce 6800 LE]
0215 NV40 [GeForce 6800 GT]
0218 NV40 [GeForce 6800 XT]
0221 NV44A [GeForce 6200]
 3842 a341 256A8N341DX

0222 GeForce 6200 A-LE
0240 C51PV [GeForce 6150]
 1043 81cd A8N-VM CSM
 1462 7207 K8NGM2 series
0241 C51 [GeForce 6150 LE]
0242 C51G [GeForce 6100]
0243 C51 PCI Express Bridge
0244 C51 [Geforce 6150 Go]
 10de 0244 C51 [Geforce 6150 Go]
0245 C51 [Quadro NVS 210S/GeForce 6150LE]
0246 C51 PCI Express Bridge
0247 MCP51 PCI-X GeForce Go 6100
 1043 1382 MCP51 PCI-X GeForce Go 6100
0248 C51 PCI Express Bridge
0249 C51 PCI Express Bridge
024a C51 PCI Express Bridge
024b C51 PCI Express Bridge
024c C51 PCI Express Bridge
024d C51 PCI
Express Bridge
024e C51 PCI Express Bridge
024f C51 PCI Express Bridge
0250 NV25 [GeForce4 Ti 4600]
0251 NV25 [GeForce4 Ti 4400]
 1043 8023 v8440 GeForce 4 Ti4400
0252 NV25 [GeForce4 Ti]
0253 NV25 [GeForce4 Ti 4200]
 107d 2896 WinFast A250 LE TD (Dual VGA/TV-out/DVI)
 147b 8f09 Siluro (Dual VGA/TV-out/DVI)
0258 NV25GL [Quadro4 900 XGL]
0259 NV25GL [Quadro4 750 XGL]
025b NV25GL [Quadro4 700 XGL]
0260 MCP51 LPC Bridge
 1043 81bc A8N-VM CSM Mainboard
 1458 5001 GA-M55plus-S3G
 1462 7207 K8NGM2 series
0261 MCP51 LPC Bridge
0262 MCP51 LPC Bridge
0263 MCP51 LPC Bridge
0264 MCP51 SMBus
 1043 81bc A8N-VM CSM Mainboard
 1462 7207 K8NGM2 series
0265 MCP51 IDE
 1043 81bc A8N-VM CSM Mainboard
 1462 7207 K8NGM2 series
0266 MCP51 Serial ATA Controller
 1043 81bc A8N-VM CSM Mainboard
 1462 7207 K8NGM2 series

0267 MCP51 Serial ATA Controller
1043 81bc A8N-VM CSM Mainboard
1462 7207 K8NGM2 series
0268 MCP51 Ethernet Controller
0269 MCP51
Ethernet Controller
1043 8141 A8N-VM CSM Mainboard
1462 7207 K8NGM2 series
026a MCP51 MCI
026b MCP51 AC97 Audio Controller
026c MCP51 High Definition Audio
10de cb84 A8N-VM CSM Mainboard
1462 7207 K8NGM2 series
026d MCP51 USB Controller
1043 81bc A8N-VM CSM Mainboard
1462 7207 K8NGM2 series
026e MCP51 USB Controller
1043 81bc A8N-VM CSM Mainboard
1462 7207 K8NGM2 series
026f MCP51 PCI Bridge
0270 MCP51 Host Bridge
1043 81bc A8N-VM CSM Mainboard
1458 5001 GA-M55plus-S3G
1462 7207 K8NGM2 series
0271 MCP51 PMU
0272 MCP51 Memory Controller 0
027e C51 Memory Controller 2
1043 81cd A8N-VM CSM Mainboard
1458 5000 GA-M55plus-S3G
1462 7207 K8NGM2 series
027f C51 Memory Controller 3
1043 81cd A8N-VM CSM Mainboard
1458 5000 GA-M55plus-S3G
1462 7207 K8NGM2 series
0280 NV28 [GeForce4 Ti 4800]
0281 NV28 [GeForce4 Ti 4200 AGP 8x]
0282 NV28 [GeForce4 Ti 4800 SE]
0286 NV28 [GeForce4 Ti 4200 Go AGP 8x]
0288 NV28GL [Quadro4
980 XGL]
0289 NV28GL [Quadro4 780 XGL]
028c NV28GLM [Quadro4 Go700]
0290 G71 [GeForce 7900 GTX]
0291 G71 [GeForce 7900 GT/GTO]
10de 042b NX7900GTO-T2D512E [7900 GTO]
0292 G71 [GeForce 7900 GS]
0293 G71 [GeForce 7900 GX2]
0294 G71 [GeForce 7950 GX2]

0295 G71 [GeForce 7950 GT]
 107d 2a68 WinFast PX7950GT TDH
0297 GeForce Go 7950 GTX
0298 GeForce Go 7900 GS
0299 GeForce Go 7900 GTX
029a G71 [Quadro FX 2500M]
029b G71 [Quadro FX 1500M]
029c G71 [Quadro FX 5500]
029d G71GL [Quadro FX 3500]
029e G71 [Quadro FX 1500]
029f G70 [Quadro FX 4500 X2]
Xbox Graphics Processing Unit (Integrated). GeForce3 derivative (NV20 < NV2A < NV25).
02a0 NV2A [XGPU]
02e0 GeForce 7600 GT
02e1 G73 [GeForce 7600 GS]
02e2 GeForce 7300 GT
02f0 C51 Host Bridge
 1043 81cd A8N-VM CSM Mainboard
 1462 7207 K8NGM2 series
02f1 C51 Host Bridge
 1458 5000 GA-M55plus-S3G
02f2 C51 Host Bridge
02f3 C51 Host Bridge
02f4 C51 Host Bridge
02f5 C51 Host Bridge
02f6
 C51 Host Bridge
02f7 C51 Host Bridge
02f8 C51 Memory Controller 5
 1043 81cd A8N-VM CSM Mainboard
 1458 5000 GA-M55plus-S3G
 1462 7207 K8NGM2 series
02f9 C51 Memory Controller 4
 1043 81cd A8N-VM CSM Mainboard
 1458 5000 GA-M55plus-S3G
 1462 7207 K8NGM2 series
02fa C51 Memory Controller 0
 1043 81cd A8N-VM CSM Mainboard
 1458 5000 GA-M55plus-S3G
 1462 7207 K8NGM2 series
02fb C51 PCI Express Bridge
02fc C51 PCI Express Bridge
02fd C51 PCI Express Bridge
02fe C51 Memory Controller 1
 1043 81cd A8N-VM CSM Mainboard
 1458 5000 GA-M55plus-S3G
 1462 7207 K8NGM2 series
02ff C51 Host Bridge

1043 81cd A8N-VM CSM Mainboard
1458 5000 GA-M55plus-S3G
1462 7207 K8NGM2 series
0300 NV30 [GeForce FX]
0301 NV30 [GeForce FX 5800 Ultra]
0302 NV30 [GeForce FX 5800]
0308 NV30GL [Quadro FX 2000]
0309 NV30GL [Quadro FX 1000]
0311 NV31 [GeForce FX 5600 Ultra]
0312 NV31 [GeForce FX 5600]
0313 NV31
0314 NV31 [GeForce FX 5600XT]
1043 814a
V9560XT/TD
0316 NV31M
0317 NV31M Pro
031a NV31M [GeForce FX Go5600]
031b NV31M [GeForce FX Go5650]
031c Quadro FX Go700
031d NV31GLM
031e NV31GLM Pro
031f NV31GLM Pro
0320 NV34 [GeForce FX 5200]
0321 NV34 [GeForce FX 5200 Ultra]
0322 NV34 [GeForce FX 5200]
1043 02fb V9250 Magic
1462 9171 MS-8917 (FX5200-T128)
1462 9360 MS-8936 (FX5200-T128)
0323 NV34 [GeForce FX 5200LE]
0324 NV34M [GeForce FX Go5200 64M]
1028 0196 Inspiron 5160
1071 8160 MIM2000
0325 NV34M [GeForce FX Go5250]
0326 NV34 [GeForce FX 5500]
0327 NV34 [GeForce FX 5100]
0328 NV34M [GeForce FX Go5200 32M/64M]
0329 NV34M [GeForce FX Go5200]
032a NV34GL [Quadro NVS 280 PCI]
032b NV34GL [Quadro FX 500/600 PCI]
032c NV34GLM [GeForce FX Go 5300]
032d NV34 [GeForce FX Go5100]
032f NV34GL
0330 NV35 [GeForce FX 5900 Ultra]
0331 NV35 [GeForce FX 5900]
1043 8145 V9950GE
0332 NV35 [GeForce FX 5900XT]
0333 NV38 [GeForce FX 5950 Ultra]
0334 NV35 [GeForce FX 5900ZT]

0338
 NV35GL [Quadro FX 3000]
033f NV35GL [Quadro FX 700]
0341 NV36.1 [GeForce FX 5700 Ultra]
 1462 9380 MS-8938 (FX5700U-TD128)
0342 NV36.2 [GeForce FX 5700]
0343 NV36 [GeForce FX 5700LE]
0344 NV36.4 [GeForce FX 5700VE]
0345 NV36.5
0347 NV36 [GeForce FX Go5700]
 103c 006a NX9500
0348 NV36 [GeForce FX Go5700]
0349 NV36M Pro
034b NV36MAP
034c NV36 [Quadro FX Go1000]
034e NV36GL [Quadro FX 1100]
034f NV36GL
0360 MCP55 LPC Bridge
0361 MCP55 LPC Bridge
0362 MCP55 LPC Bridge
0363 MCP55 LPC Bridge
0364 MCP55 LPC Bridge
0365 MCP55 LPC Bridge
0366 MCP55 LPC Bridge
0367 MCP55 LPC Bridge
0368 MCP55 SMBus
0369 MCP55 Memory Controller
036a MCP55 Memory Controller
036b MCP55 SMU
036c MCP55 USB Controller
036d MCP55 USB Controller
036e MCP55 IDE
0370 MCP55 PCI bridge
0371 MCP55 High Definition Audio
0372 MCP55 Ethernet
0373 MCP55 Ethernet
0374 MCP55 PCI Express bridge
0375 MCP55 PCI Express bridge
0376 MCP55 PCI Express bridge
0377
 MCP55 PCI Express bridge
0378 MCP55 PCI Express bridge
037a MCP55 Memory Controller
037c G70 [GeForce 7800 GS] (rev a2)
037e MCP55 SATA Controller
037f MCP55 SATA Controller
0390 GeForce 7650 GS
0391 G70 [GeForce 7600 GT]

1458 3427 GV-NX76T128D-RH
0392 G70 [GeForce 7600 GS]
1462 0622 NX7600GS-T2D256EH
0393 G70 [GeForce 7300 GT]
0394 G70 [GeForce 7600 LE]
0395 G70 [GeForce 7300 GT]
0397 GeForce Go 7700
0398 G70 [GeForce Go 7600]
#
\n Subsystem:
1025 006c Acer 9814 WKMI
039b GeForce Go 7900 SE
039c Quadro FX 550M
039e G73GL [Quadro FX 560]
03a0 C55 Host Bridge
03a1 C55 Host Bridge
03a2 C55 Host Bridge
03a3 C55 Host Bridge
03a4 C55 Host Bridge
03a5 C55 Host Bridge
03a6 C55 Host Bridge
03a7 C55 Host Bridge
03a8 C55 Memory Controller
03a9 C55 Memory Controller
03aa C55 Memory Controller
03ab C55 Memory Controller
03ac C55 Memory Controller
03ad C55 Memory Controller
03ae C55 Memory Controller
03af C55
Memory Controller
03b0 C55 Memory Controller
03b1 C55 Memory Controller
03b2 C55 Memory Controller
03b3 C55 Memory Controller
03b4 C55 Memory Controller
03b5 C55 Memory Controller
03b6 C55 Memory Controller
03b7 C55 PCI Express bridge
03b8 C55 PCI Express bridge
03b9 C55 PCI Express bridge
03ba C55 Memory Controller
03bb C55 PCI Express bridge
03d0 GeForce 6100 nForce 430
03d1 GeForce 6100 nForce 405
03d2 GeForce 6100 nForce 400
03d5 GeForce 6100 nForce 420
03e0 MCP61 LPC Bridge

03e1 MCP61 LPC Bridge
03e2 MCP61 LPC Bridge
03e3 MCP61 LPC Bridge
03e4 MCP61 High Definition Audio
03e5 MCP61 Ethernet
03e6 MCP61 Ethernet
03e7 MCP61 SATA Controller
03e8 MCP61 PCI Express bridge
03e9 MCP61 PCI Express bridge
03ea MCP61 Memory Controller
03eb MCP61 SMBus
03ec MCP61 IDE
03ee MCP61 Ethernet
03ef MCP61 Ethernet
03f0 MCP61 High Definition Audio
03f1 MCP61 USB Controller
03f2 MCP61 USB Controller
03f3 MCP61 PCI bridge
03f4 MCP61
SMU
03f5 MCP61 Memory Controller
03f6 MCP61 SATA Controller
03f7 MCP61 SATA Controller
0440 MCP65 LPC Bridge
0441 MCP65 LPC Bridge
0442 MCP65 LPC Bridge
0443 MCP65 LPC Bridge
0444 MCP65 Memory Controller
0445 MCP65 Memory Controller
0446 MCP65 SMBus
0447 MCP65 SMU
0448 MCP65 IDE
0449 MCP65 PCI bridge
044a MCP65 High Definition Audio
044b MCP65 High Definition Audio
044c MCP65 AHCI Controller
044d MCP65 AHCI Controller
044e MCP65 AHCI Controller
044f MCP65 AHCI Controller
0450 MCP65 Ethernet
0451 MCP65 Ethernet
0452 MCP65 Ethernet
0453 MCP65 Ethernet
0454 MCP65 USB Controller
0455 MCP65 USB Controller
0456 MCP65 USB Controller
0457 MCP65 USB Controller
0458 MCP65 PCI Express bridge

0459 MCP65 PCI Express bridge
045a MCP65 PCI Express bridge
045c MCP65 SATA Controller
045d MCP65 SATA Controller
045e MCP65 SATA Controller
045f MCP65 SATA Controller
055c MCP67 High Definition Audio
055d MCP67 High Definition Audio
c615
G70 [GeForce 7600 GT]
10df Emulex Corporation
1ae5 LP6000 Fibre Channel Host Adapter
f011 Saturn: LightPulse Fibre Channel Host Adapter
f015 Saturn: LightPulse Fibre Channel Host Adapter
f085 LP850 Fibre Channel Host Adapter
f095 LP952 Fibre Channel Host Adapter
f098 LP982 Fibre Channel Host Adapter
f0a1 Thor LightPulse Fibre Channel Host Adapter
f0a5 Thor LightPulse Fibre Channel Host Adapter
f0b5 Viper LightPulse Fibre Channel Host Adapter
f0d1 Helios LightPulse Fibre Channel Host Adapter
f0d5 Helios LightPulse Fibre Channel Host Adapter
f0e1 Zephyr LightPulse Fibre Channel Host Adapter
f0e5 Zephyr LightPulse Fibre Channel Host Adapter
f0f5 Neptune LightPulse Fibre Channel Host Adapter
f100 Saturn-X: LightPulse Fibre Channel Host Adapter
f700 LP7000 Fibre Channel Host Adapter
f701 LP7000 Fibre Channel Host Adapter Alternate ID (JX1:2-3, JX2:1-2)
f800 LP8000 Fibre Channel Host Adapter
f801 LP8000 Fibre Channel Host Adapter Alternate ID (JX1:2-3,
JX2:1-2)
f900 LP9000 Fibre Channel Host Adapter
f901 LP9000 Fibre Channel Host Adapter Alternate ID (JX1:2-3, JX2:1-2)
f980 LP9802 Fibre Channel Host Adapter
f981 LP9802 Fibre Channel Host Adapter Alternate ID
f982 LP9802 Fibre Channel Host Adapter Alternate ID
fa00 Thor-X LightPulse Fibre Channel Host Adapter
fb00 Viper LightPulse Fibre Channel Host Adapter
fc00 Thor-X LightPulse Fibre Channel Host Adapter
fc10 Helios-X LightPulse Fibre Channel Host Adapter
fc20 Zephyr-X LightPulse Fibre Channel Host Adapter
fc40 Saturn-X: LightPulse Fibre Channel Host Adapter
fd00 Helios-X LightPulse Fibre Channel Host Adapter
fe00 Zephyr-X LightPulse Fibre Channel Host Adapter
ff00 Neptune LightPulse Fibre Channel Host Adapter
10e0 Integrated Micro Solutions Inc.
5026 IMS5026/27/28
5027 IMS5027

5028 IMS5028
8849 IMS8849
8853 IMS8853
9128 IMS9128 [Twin turbo 128]
10e1 Tekram Technology Co.,Ltd.
0391 TRM-S1040
 10e1 0391 DC-315U SCSI-3 Host Adapter
690c
 DC-690c
dc29 DC-290
10e2 Aptix Corporation
10e3 Tundra Semiconductor Corp.
0000 CA91C042 [Universe]
0108 Tsi108 Host Bridge for Single PowerPC
0148 Tsi148 [Tempe]
 1775 1100 VR11 Single Board Computer
0860 CA91C860 [QSpan]
0862 CA91C862A [QSpan-II]
8260 CA91L8200B [Dual PCI PowerSpan II]
8261 CA91L8260B [Single PCI PowerSpan II]
a108 Tsi109 Host Bridge for Dual PowerPC
10e4 Tandem Computers
8029 Realtek 8029 Network Card
10e5 Micro Industries Corporation
10e6 Gainbery Computer Products Inc.
10e7 Vadem
10e8 Applied Micro Circuits Corp.
1072 INES GPIB-PCI (AMCC5920 based)
2011 Q-Motion Video Capture/Edit board
4750 S5930 [Matchmaker]
5920 S5920
8043 LANai4.x [Myrinet LANai interface chip]
8062 S5933_PARASTATION
807d S5933 [Matchmaker]
8088 Kongsberg Spacetec Format Synchronizer
8089 Kongsberg Spacetec Serial Output Board
809c S5933_HEPC3
80d7 PCI-9112
80d9 PCI-9118
80da PCI-9812
80fc APCI1500 Signal processing controller (16
dig. inputs + 16 dig. outputs)
811a PCI-IEEE1355-DS-DE Interface
814c Fastcom ESCC-PCI (Commtech, Inc.)
8170 S5933 [Matchmaker] (Chipset Development Tool)
81e6 Multimedia video controller
828d APCI3001 Signal processing controller (up to 16 analog inputs)
8291 Fastcom 232/8-PCI (Commtech, Inc.)

82c4 Fastcom 422/4-PCI (Commtech, Inc.)
82c5 Fastcom 422/2-PCI (Commtech, Inc.)
82c6 Fastcom IG422/1-PCI (Commtech, Inc.)
82c7 Fastcom IG232/2-PCI (Commtech, Inc.)
82ca Fastcom 232/4-PCI (Commtech, Inc.)
82db AJA HDNTV HD SDI Framestore
82e2 Fastcom DIO24H-PCI (Commtech, Inc.)
8406 PCIcanx/PCIcan CAN interface [Kvaser AB]
8407 PCIcan II CAN interface (A1021, PCB-07, PCB-08) [Kvaser AB]
8851 S5933 on Innes Corp FM Radio Capture card
10e9 Alps Electric Co., Ltd.
10ea Intergraphics Systems
1680 IGA-1680
1682 IGA-1682
1683 IGA-1683
2000 CyberPro 2000
2010 CyberPro 2000A
5000 CyberPro 5000
5050 CyberPro 5050
5202 CyberPro 5202
CyberPro5202 Audio Function
5252
CyberPro5252
10eb Artists Graphics
0101 3GA
8111 Twist3 Frame Grabber
10ec Realtek Semiconductor Co., Ltd.
0139 Zonet Zen3200
0260 Realtek 260 High Definition Audio
0261 Realtek 261 High Definition Audio
0280 Realtek 280 High Definition Audio
0861 Realtek 861 High Definition Audio
0862 Realtek 862 High Definition Audio
0880 Realtek 880 High Definition Audio
0883 Realtek 883 High Definition Audio
1025 1605 TravelMate 5600 series
0888 Realtek 888 High Definition Audio
8029 RTL-8029(AS)
10b8 2011 EZ-Card (SMC1208)
10ec 8029 RTL-8029(AS)
1113 1208 EN1208
1186 0300 DE-528
1259 2400 AT-2400
8129 RTL-8129
10ec 8129 RT8129 Fast Ethernet Adapter
8136 RTL8101E PCI Express Fast Ethernet controller
8138 RT8139 (B/C) Cardbus Fast Ethernet Adapter
10ec 8138 RT8139 (B/C) Fast Ethernet Adapter

8139 RTL-8139/8139C/8139C+
 0357 000a TTP-Monitoring Card V2.0
 1025 005a TravelMate 290
 1025 8920 ALN-325
 1025 8921 ALN-325
 103c
006a NX9500
 1043 1045 L8400B or L3C/S notebook
 1043 8109 P5P800-MX Mainboard
 1071 8160 MIM2000
 10bd 0320 EP-320X-R
 10ec 8139 RT8139
 10f7 8338 Panasonic CF-Y5 laptop
 1113 ec01 FNC-0107TX
 1186 1300 DFE-538TX
 1186 1320 SN5200
 1186 8139 DRN-32TX
 11f6 8139 FN22-3(A) LinxPRO Ethernet Adapter
 1259 2500 AT-2500TX
 1259 2503 AT-2500TX/ACPI
 1429 d010 ND010
 1432 9130 EN-9130TX
 1436 8139 RT8139
 144d c00c P30/P35 notebook
 1458 e000 GA-7VM400M/7VT600 Motherboard
 1462 788c 865PE Neo2-V Mainboard
 146c 1439 FE-1439TX
 1489 6001 GF100TXRII
 1489 6002 GF100TXRA
 149c 139a LFE-8139ATX
 149c 8139 LFE-8139TX
 14cb 0200 LNR-100 Family 10/100 Base-TX Ethernet
 1565 2300 P4TSV Onboard LAN (RTL8100B)
 1695 9001 Onboard RTL8101L 10/100 MBit
 1799 5000 F5D5000 PCI Card/Desktop Network PCI Card
 1904 8139 RTL8139D Fast Ethernet Adapter
 2646 0001 EtheRx
 8e2e 7000 KF-230TX
 8e2e 7100 KF-230TX/2
 a0a0 0007 ALN-325C
8167 RTL-8110SC/8169SC
Gigabit Ethernet
 1462 235c P965 Neo MS-7235 mainboard
8168 RTL8111/8168B PCI Express Gigabit Ethernet controller
8169 RTL-8169 Gigabit Ethernet
 1025 0079 Aspire 5024WLMi
 1259 c107 CG-LAPCIGT
 1371 434e ProG-2000L

1458 e000 GA-8I915ME-G Mainboard
1462 030c K8N Neo-FSR v2.0 mainboard
1462 702c K8T NEO 2 motherboard
1462 7094 K8T Neo2-F V2.0
1734 1091 D2030-A1
a0a0 0449 AK86-L motherboard
8180 RTL8180L 802.11b MAC
8185 RTL-8185 IEEE 802.11a/b/g Wireless LAN Controller
8197 SmartLAN56 56K Modem
10ed Ascii Corporation
7310 V7310
10ee Xilinx Corporation
0205 Wildcard TE205P
0210 Wildcard TE210P
0314 Wildcard TE405P/TE410P (1st Gen)
0405 Wildcard TE405P (2nd Gen)
0410 Wildcard TE410P (2nd Gen)
3fc0 RME Digi96
3fc1 RME Digi96/8
3fc2 RME Digi96/8 Pro
3fc3 RME Digi96/8 Pad
3fc4 RME Digi9652 (Hammerfall)
3fc5 RME Hammerfall DSP
3fc6 RME Hammerfall DSP MADI
8380 Ellips ProfiXpress Profibus Master
8381 Ellips Santos
Frame Grabber
d154 Copley Controls CAN card (PCI-CAN-02)
10ef Racore Computer Products, Inc.
8154 M815x Token Ring Adapter
10f0 Peritek Corporation
10f1 Tyan Computer
2865 Tyan Thunder K8E S2865
10f2 Achme Computer, Inc.
10f3 Alaris, Inc.
10f4 S-MOS Systems, Inc.
10f5 NKK Corporation
a001 NDR4000 [NR4600 Bridge]
10f6 Creative Electronic Systems SA
10f7 Matsushita Electric Industrial Co., Ltd.
10f8 Altos India Ltd
10f9 PC Direct
10fa Truevision
000c TARGA 1000
10fb Thesys Gesellschaft fuer Mikroelektronik mbH
186f TH 6255
10fc I-O Data Device, Inc.
What's in the cardbus end of a Sony ACR-A01 card, comes with newer Vaio CD-RW drives

0003 Cardbus IDE Controller
0005 Cardbus SCSI CBSC II
10fd Soyo Computer, Inc
10fe Fast Multimedia AG
10ff NCube
1100 Jazz Multimedia
1101 Initio Corporation
1060 INI-A100U2W
1622 INI-1623 PCI SATA-II Controller
9100 INI-9100/9100W
9400 INI-940
9401 INI-950
9500 360P
9502 Initio INI-9100UW Ultra Wide SCSI Controller
INIC-950P chip
1102 Creative Labs
0002 SB Live! EMU10k1
1102 0020 CT4850 SBLive! Value
1102 0021 CT4620 SBLive!
1102 002f SBLive! mainboard implementation
1102 100a SB Live! 5.1 Digital OEM [SB0220]
1102 4001 E-mu APS
1102 8022 CT4780 SBLive! Value
1102 8023 CT4790 SoundBlaster PCI512
1102 8024 CT4760 SBLive!
1102 8025 SBLive! Mainboard Implementation
1102 8026 CT4830 SBLive! Value
1102 8027 CT4832 SBLive! Value
1102 8028 CT4760 SBLive! OEM version
1102 8031 CT4831 SBLive! Value
1102 8040 CT4760 SBLive!
1102 8051 CT4850 SBLive! Value
1102 8061 SBLive! Player 5.1
1102 8064 SBLive! 5.1 Model SB0100
1102 8065 SBLive! 5.1 Digital Model SB0220
1102 8067 SBLive! 5.1 eMicro 28028
0004 SB Audigy
1102 0051 SB0090 Audigy Player
1102 0053 SB0090 Audigy Player/OEM
1102 0058 SB0090 Audigy Player/OEM
1102 1002 SB Audigy2 ZS
1102 1007 SB0240 Audigy 2 Platinum 6.1
1102 2002 SB Audigy 2 ZS (SB0350)
1102 4001 E-MU
1010
0005 SB X-Fi
1102 0021 X-Fi Platinum
1102 1003 X-Fi XtremeMusic

0006 [SB Live! Value] EMU10k1X
0007 SB Audigy LS
1102 0007 SBLive! 24bit
1102 1001 SB0310 Audigy LS
1102 1002 SB0312 Audigy LS
1102 1006 SB0410 SBLive! 24-bit
1462 1009 K8N Diamond
0008 SB0400 Audigy2 Value
1102 0008 EMU0404 Digital Audio System
4001 SB Audigy FireWire Port
1102 0010 SB Audigy FireWire Port
7002 SB Live! Game Port
1102 0020 Gameport Joystick
7003 SB Audigy Game Port
1102 0040 SB Audigy MIDI/Game Port
7004 [SB Live! Value] Input device controller
7005 SB Audigy LS Game Port
1102 1001 SB0310 Audigy LS MIDI/Game port
1102 1002 SB0312 Audigy LS MIDI/Game port
8064 SB0100 [SBLive! 5.1 OEM]
8938 Ectiva EV1938
1033 80e5 SlimTower-Jim (NEC)
1071 7150 Mitac 7150
110a 5938 Siemens Scenic Mobile 510PIII
13bd 100c Ceres-C (Sharp, Intel BX)
13bd 100d Sharp, Intel Banister
13bd 100e TwinHead P09S/P09S3 (Sharp)
13bd f6f1 Marlin (Sharp)
14ff
0e70 P88TE (TWINHEAD INTERNATIONAL Corp)
14ff c401 Notebook 9100/9200/2000 (TWINHEAD INTERNATIONAL Corp)
156d b400 G400 - Geo (AlphaTop (Taiwan))
156d b550 G560 (AlphaTop (Taiwan))
156d b560 G560 (AlphaTop (Taiwan))
156d b700 G700/U700 (AlphaTop (Taiwan))
156d b795 G795 (AlphaTop (Taiwan))
156d b797 G797 (AlphaTop (Taiwan))
1103 Triones Technologies, Inc.
0003 HPT343/345/346/363
0004 HPT366/368/370/370A/372/372N
1103 0001 HPT370A
1103 0003 HPT343 / HPT345 / HPT363 UDMA33
1103 0004 HPT366 UDMA66 (r1) / HPT368 UDMA66 (r2) / HPT370 UDMA100 (r3) / HPT370 UDMA100 RAID (r4)
1103 0005 HPT370 UDMA100
1103 0006 HPT302/302N
0005 HPT372A/372N
0006 HPT302/302N

0007 HPT371/371N
0008 HPT374
0009 HPT372N
2340 RocketRAID 2340 16 Port SATA-II Controller
1104 RasterOps Corp.
1105 Sigma Designs, Inc.
1105 REALmagic Xcard MPEG 1/2/3/4 DVD Decoder
8300 REALmagic Hollywood Plus DVD Decoder
8400 EM840x REALmagic DVD/MPEG-2 Audio/Video Decoder
8401 EM8401 REALmagic DVD/MPEG-2 A/V Decoder
8470 EM8470 REALmagic DVD/MPEG-4 A/V Decoder
8471 EM8471 REALmagic DVD/MPEG-4 A/V Decoder
8475 EM8475 REALmagic DVD/MPEG-4 A/V Decoder
1105 0001 REALmagic X-Card
8476 EM8476 REALmagic DVD/MPEG-4 A/V Decoder
127d 0000 CineView II
8485 EM8485 REALmagic DVD/MPEG-4 A/V Decoder
8486 EM8486 REALmagic DVD/MPEG-4 A/V Decoder
1106 VIA Technologies, Inc.
0102 Embedded VIA Ethernet Controller
0130 VT6305 1394.A Controller
0198 P4X600 Host Bridge
0204 K8M800 Host Bridge
0208 PT890 Host Bridge
0238 K8T890 Host Bridge
0258 PT880 Host Bridge
0259 CN400/PM880 Host Bridge
0269 KT880 Host Bridge
0282 K8T800Pro Host Bridge
1043 80a3 A8V Deluxe
0290 K8M890 Host Bridge
0293 PM896 Host Bridge
0296 P4M800 Host Bridge
0305 VT8363/8365 [KT133/KM133]
1019 0987 K7VZA Mainboard
1043 8033 A7V Mainboard
1043 803e A7V-E Mainboard
1043 8042 A7V133/A7V133-C Mainboard
147b a401 KT7/KT7-RAID/KT7A/KT7A-RAID Mainboard
0308 PT894 Host Bridge
0314 CN700/VN800/P4M800CE/Pro Host Bridge
0324 CX700 Host Bridge
0327 P4M890 Host Bridge
0336 K8M890CE Host Bridge
0340 PT900 Host Bridge
0351 VT3351 Host Bridge

0364 P4M900 Host Bridge
 1043 81ce P5VD2-VM mothervoard
0391 VT8371 [KX133]
0501 VT8501 [Apollo MVP4]
0505 VT82C505
Shares chip with :0576. The VT82C576M has :1571 instead of :0561.
0561 VT82C576MV
0571 VT82C586A/B/VT82C686/A/B/VT823x/A/C PIPC Bus Master IDE
 1019 0985 P6VXA Motherboard
 1019 0a81 L7VTA v1.0 Motherboard (KT400-8235)
 1043 8052 VT8233A Bus Master ATA100/66/33 IDE
 1043 808c A7V8X / A7V333 motherboard
 1043 80a1 A7V8X-X motherboard rev. 1.01
 1043 80ed A7V600/K8V-X/A8V Deluxe motherboard
 1106 0571 VT82C586/B/VT82C686/A/B/VT8233/A/C/VT8235 PIPC Bus Master IDE
 1179 0001 Magnia Z310
 1297 f641 FX41 motherboard
 1458 5002 GA-7VAX Mainboard
 1462 7020 K8T NEO 2 motherboard
 1462 7094 K8T Neo2-F V2.0
 1462 7181 K8MM3-V mainboard
 147b
1407 KV8-MAX3 motherboard
 1849 0571 K7VT2/K7VT6 motherboard
0576 VT82C576 3V [Apollo Master]
0585 VT82C585VP [Apollo VP1/VPX]
0586 VT82C586/A/B PCI-to-ISA [Apollo VP]
 1106 0000 MVP3 ISA Bridge
0591 VT8237A SATA 2-Port Controller
0595 VT82C595 [Apollo VP2]
0596 VT82C596 ISA [Mobile South]
 1106 0000 VT82C596/A/B PCI to ISA Bridge
 1458 0596 VT82C596/A/B PCI to ISA Bridge
0597 VT82C597 [Apollo VP3]
0598 VT82C598 [Apollo MVP3]
0601 VT8601 [Apollo ProMedia]
0605 VT8605 [ProSavage PM133]
 1043 802c CUV4X mainboard
0680 VT82C680 [Apollo P6]
0686 VT82C686 [Apollo Super South]
 1019 0985 P6VXA Motherboard
 1043 802c CUV4X mainboard
 1043 8033 A7V Mainboard
 1043 803e A7V-E Mainboard
 1043 8040 A7M266 Mainboard
 1043 8042 A7V133/A7V133-C Mainboard
 1106 0000 VT82C686/A PCI to ISA Bridge
 1106 0686 VT82C686/A PCI to ISA Bridge

1179 0001 Magnia Z310
147b a702 KG7-Lite Mainboard
0691 VT82C693A/694x [Apollo PRO133x]
1019
0985 P6VXA Motherboard
1179 0001 Magnia Z310
1458 0691 VT82C691 Apollo Pro System Controller
0693 VT82C693 [Apollo Pro Plus]
0698 VT82C693A [Apollo Pro133 AGP]
0926 VT82C926 [Amazon]
1000 VT82C570MV
1106 VT82C570MV
1204 K8M800 Host Bridge
1208 PT890 Host Bridge
1238 K8T890 Host Bridge
1258 PT880 Host Bridge
1259 CN400/PM880 Host Bridge
1269 KT880 Host Bridge
1282 K8T800Pro Host Bridge
1290 K8M890 Host Bridge
1293 PM896 Host Bridge
1296 P4M800 Host Bridge
1308 PT894 Host Bridge
1314 CN700/VN800/P4M800CE/Pro Host Bridge
1324 CX700 Host Bridge
1327 P4M890 Host Bridge
1336 K8M890CE Host Bridge
1340 PT900 Host Bridge
1351 VT3351 Host Bridge
1364 P4M900 Host Bridge
1571 VT82C576M/VT82C586
1595 VT82C595/97 [Apollo VP2/97]
2106 VIA Rhine Family Fast Ethernet Adapter (VT6105)
2204 K8M800 Host Bridge
2208 PT890 Host Bridge
2238 K8T890 Host Bridge
2258 PT880 Host Bridge
2259 CN400/PM880 Host Bridge
2269 KT880 Host Bridge
2282
K8T800Pro Host Bridge
2290 K8M890 Host Bridge
2293 PM896 Host Bridge
2296 P4M800 Host Bridge
2308 PT894 Host Bridge
2314 CN700/VN800/P4M800CE/Pro Host Bridge
2324 CX700 Host Bridge
2327 P4M890 Host Bridge

2336 K8M890CE Host Bridge
2340 PT900 Host Bridge
2351 VT3351 Host Bridge
2364 P4M900 Host Bridge
287a VT8251 PCI to PCI Bridge
287b VT8251 Host Bridge
287c VT8251 PCIE Root Port
287d VT8251 PCIE Root Port
287e VT8251 Ultra VLINK Controller
3022 CLE266
3038 VT82xxxxx UHCI USB 1.1 Controller
 0925 1234 USB Controller
 1019 0985 P6VXA Motherboard
 1019 0a81 L7VTA v1.0 Motherboard (KT400-8235)
 1043 8080 A7V333 motherboard
 1043 808c VT6202 USB2.0 4 port controller
 1043 80a1 A7V8X-X motherboard
 1043 80ed A7V600/K8V-X/A8V Deluxe motherboard
 1179 0001 Magnia Z310
 1458 5004 GA-7VAX Mainboard
 1462 7020 K8T NEO 2 motherboard
 1462 7094 K8T Neo2-F V2.0
 1462 7181 K8MM3-V mainboard
 147b 1407 KV8-MAX3 motherboard
 182d 201d
CN-029 USB2.0 4 port PCI Card
 1849 3038 K7VT6
3040 VT82C586B ACPI
3043 VT86C100A [Rhine]
 10bd 0000 VT86C100A Fast Ethernet Adapter
 1106 0100 VT86C100A Fast Ethernet Adapter
 1186 1400 DFE-530TX rev A
3044 IEEE 1394 Host Controller
 1025 005a TravelMate 290
 1043 808a A8V Deluxe or A8N-VM CSM Mainboard
 1458 1000 GA-7VT600-1394 Motherboard
 1462 207d K8NGM2 series motherboard
 1462 702d K8T NEO 2 motherboard
 1462 971d MS-6917
3050 VT82C596 Power Management
3051 VT82C596 Power Management
3053 VT6105M [Rhine-III]
3057 VT82C686 [Apollo Super ACPI]
 1019 0985 P6VXA Motherboard
 1019 0987 K7VZA Motherboard
 1043 8033 A7V Mainboard
 1043 803e A7V-E Mainboard
 1043 8040 A7M266 Mainboard

1043 8042 A7V133/A7V133-C Mainboard
1179 0001 Magnia Z310
3058 VT82C686 AC97 Audio Controller
0e11 0097 SoundMax Digital Integrated Audio
0e11 b194 Soundmax integrated digital audio
1019 0985 P6VXA Motherboard
1019 0987 K7VZA Motherboard
1043
1106 A7V133/A7V133-C Mainboard
1106 4511 Onboard Audio on EP7KXA
1458 7600 Onboard Audio
1462 3091 MS-6309 Onboard Audio
1462 3300 MS-6330 Onboard Audio
15dd 7609 Onboard Audio
3059 VT8233/A/8235/8237 AC97 Audio Controller
1019 0a81 L7VTA v1.0 Motherboard (KT400-8235)
1043 8095 A7V8X Motherboard (Realtek ALC650 codec)
1043 80a1 A7V8X-X Motherboard
1043 80b0 A7V600/K8V-X/K8V Deluxe motherboard (ADI AD1980 codec [SoundMAX])
1043 812a A8V Deluxe motherboard (Realtek ALC850 codec)
10ec 8168 High Definition Audio
1106 3059 L7VMM2 Motherboard
1106 4161 K7VT2 motherboard
1106 4170 PCPartner P4M800-8237R Motherboard
1106 4552 Soyo KT-600 Dragon Plus (Realtek ALC 650)
1297 c160 FX41 motherboard (Realtek ALC650 codec)
1413 147b KV8 Pro motherboard onboard audio
1458 a002 GA-7VAX Onboard Audio (Realtek ALC650)
1462 0080 K8T NEO 2 motherboard
1462 3800 KT266 onboard audio
1462 7181 K8MM3-V mainboard
147b 1407 KV8-MAX3 motherboard
1849
0850 ASRock 775Dual-880 Pro onboard audio (Realtek ALC850)
1849 9761 K7VT6 motherboard
4005 4710 MSI K7T266 Pro2-RU (MSI-6380 v2) onboard audio (Realtek/ALC 200/200P)
a0a0 01b6 AK77-8XN onboard audio
a0a0 0342 AK86-L motherboard
3065 VT6102 [Rhine-II]
1043 80a1 A7V8X-X Motherboard
1106 0102 VT6102 [Rhine II] Embeded Ethernet Controller on VT8235
1186 1400 DFE-530TX rev A
1186 1401 DFE-530TX rev B
13b9 1421 LD-10/100AL PCI Fast Ethernet Adapter (rev.B)
1462 7181 K8MM3-V mainboard
147b 1c09 NV7 Motherboard
1695 3005 VT6103
1695 300c Realtek ALC655 sound chip

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	1849 3065  K7VT6 motherboard
# This hosts more than just the Intel 537 codec, it also hosts PCtel (SIL33) and SmartLink (SIL34) codecs
	3068  AC'97 Modem Controller
	1462 309e  MS-6309 Saturn Motherboard
	3074  VT8233 PCI to ISA Bridge
	1043 8052  VT8233A
	3091  VT8633 [Apollo Pro266]
	3099  VT8366/A/7 [Apollo KT266/A/333]
	1043 8064  A7V266-E Mainboard
	1043 807f  A7V333 Mainboard
	1849
	3099  K7VT2 motherboard
	3101  VT8653 Host Bridge
	3102  VT8662 Host Bridge
	3103  VT8615 Host Bridge
	3104  USB 2.0
	1019 0a81  L7VTA v1.0 Motherboard (KT400-8235)
	1043 808c  A7V8X motherboard
	1043 80a1  A7V8X-X motherboard rev 1.01
	1043 80ed  A7V600/K8V-X/A8V Deluxe motherboard
	1297 f641  FX41 motherboard
	1458 5004  GA-7VAX Mainboard
	1462 7020  K8T NEO 2 motherboard
	1462 7094  K8T Neo2-F V2.0
	1462 7181  K8MM3-V mainboard
	147b 1407  KV8-MAX3 motherboard
	182d 201d  CN-029 USB 2.0 4 port PCI Card
	1849 3104  K7VT6 motherboard
	3106  VT6105 [Rhine-III]
	1186 1403  DFE-530TX rev C
	3108  S3 Unichrome Pro VGA Adapter
	3109  VT8233C PCI to ISA Bridge
	3112  VT8361 [KLE133] Host Bridge
	3113  VPX/VPX2 PCI to PCI Bridge Controller
	3116  VT8375 [KM266/KL266] Host Bridge
	1297 f641  FX41 motherboard
	3118  S3 Unichrome Pro VGA Adapter
	3119  VT6120/VT6121/VT6122 Gigabit Ethernet Adapter
	3122  VT8623 [Apollo CLE266] integrated CastleRock graphics
	3123  VT8623
[Apollo CLE266]
	3128  VT8753 [P4X266 AGP]
	3133  VT3133 Host Bridge
	3147  VT8233A ISA Bridge
	1043 808c  A7V333 motherboard
	3148  P4M266 Host Bridge
	3149  VIA VT6420 SATA RAID Controller
	1043 80ed  A7V600/K8V Deluxe/K8V-X/A8V Deluxe motherboard
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1458 b003 GA-7VM400AM(F) Motherboard
1462 7020 K8T Neo 2 Motherboard
1462 7094 K8T Neo2-F V2.0
147b 1407 KV8-MAX3 motherboard
147b 1408 KV7
1849 3149 K7VT6 motherboard
a0a0 04ad AK86-L motherboard
3156 P/KN266 Host Bridge
3157 CX700M2 UniChrome PRO II Graphics
3164 VT6410 ATA133 RAID controller
1043 80f4 P4P800 Mainboard Deluxe ATX
1462 7028 915P/G Neo2
3168 VT8374 P4X400 Host Controller/AGP Bridge
3177 VT8235 ISA Bridge
1019 0a81 L7VTA v1.0 Motherboard (KT400-8235)
1043 808c A7V8X motherboard
1043 80a1 A7V8X-X motherboard
1297 f641 FX41 motherboard
1458 5001 GA-7VAX Mainboard
1849 3177 K7VT2 motherboard
3178 ProSavageDDR P4N333 Host Bridge
3188 VT8385 [K8T800 AGP] Host Bridge
1043
80a3 K8V Deluxe/K8V-X motherboard
147b 1407 KV8-MAX3 motherboard
3189 VT8377 [KT400/KT600 AGP] Host Bridge
1043 807f A7V8X motherboard
1458 5000 GA-7VAX Mainboard
1849 3189 K7VT6 motherboard
3204 K8M800 Host Bridge
3205 VT8378 [KM400/A] Chipset Host Bridge
1458 5000 GA-7VM400M Motherboard
3208 PT890 Host Bridge
3213 VPX/VPX2 PCI to PCI Bridge Controller
3218 K8T800M Host Bridge
3227 VT8237 ISA bridge [KT600/K8T800/K8T890 South]
1043 80ed A7V600/K8V-X/A8V Deluxe motherboard
1106 3227 DFI KT600-AL / Soltek SL-B9D-FGR Motherboard
1458 5001 GA-7VT600 Motherboard
147b 1407 KV8-MAX3 motherboard
1849 3227 K7VT4 motherboard
3230 K8M890 [Chrome9] Integrated Video
3238 K8T890 Host Bridge
3249 VT6421 IDE RAID Controller
324a CX700 PCI to PCI Bridge
324b CX700 Host Bridge
324e CX700 Internal Module Bus
3258 PT880 Host Bridge

3259 CN400/PM880 Host Bridge
3260 VIA Chrome9 HC IGP
3269 KT880 Host Bridge
3282 K8T800Pro Host Bridge
3287
VT8251 PCI to ISA Bridge
3288 VIA High Definition Audio Controller
3290 K8M890 Host Bridge
3296 P4M800 Host Bridge
3324 CX700 Host Bridge
3327 P4M890 Host Bridge
3336 K8M890CE Host Bridge
3337 VT8237A PCI to ISA Bridge
3340 PT900 Host Bridge
3343 UniChrome Pro IGP [VIA P4M890 Chipset]
3344 UniChrome Pro IGP
3349 VT8251 AHCI/SATA 4-Port Controller
3351 VT3351 Host Bridge
3364 P4M900 Host Bridge
3371 Chrome9 HC IGP
3372 VT8237S PCI to ISA Bridge
337a VT8237A PCI to PCI Bridge
337b VT8237A Host Bridge
4149 VIA VT6420 (ATA133) Controller
4204 K8M800 Host Bridge
4208 PT890 Host Bridge
4238 K8T890 Host Bridge
4258 PT880 Host Bridge
4259 CN400/PM880 Host Bridge
4269 KT880 Host Bridge
4282 K8T800Pro Host Bridge
4290 K8M890 Host Bridge
4293 PM896 Host Bridge
4296 P4M800 Host Bridge
4308 PT894 Host Bridge
4314 CN700/VN800/P4M800CE/Pro Host Bridge
4324 CX700 Host Bridge
4327 P4M890 Host Bridge
4336 K8M890CE Host Bridge
4340
PT900 Host Bridge
4351 VT3351 Host Bridge
4364 P4M900 Host Bridge
5030 VT82C596 ACPI [Apollo PRO]
5208 PT890 I/O APIC Interrupt Controller
5238 K8T890 I/O APIC Interrupt Controller
5290 K8M890 I/O APIC Interrupt Controller
5308 PT894 I/O APIC Interrupt Controller

5324 CX700M2 IDE
5327 P4M890 I/O APIC Interrupt Controller
5336 K8M890CE I/O APIC Interrupt Controller
5340 PT900 I/O APIC Interrupt Controller
5351 VT3351 I/O APIC Interrupt Controller
5364 P4M900 I/O APIC Interrupt Controller
6100 VT85C100A [Rhine II]
6287 SATA RAID Controller
6327 P4M890 Security Device
6364 P4M900 Security Device
7204 K8M800 Host Bridge
7205 VT8378 [S3 UniChrome] Integrated Video
1458 d000 Gigabyte GA-7VM400(A)M(F) Motherboard
7208 PT890 Host Bridge
7238 K8T890 Host Bridge
7258 PT880 Host Bridge
7259 CN400/PM880 Host Bridge
7269 KT880 Host Bridge
7282 K8T800Pro Host Bridge
7290 K8M890 Host Bridge
7293 PM896 Host Bridge
7296 P4M800 Host Bridge
7308
PT894 Host Bridge
7314 CN700/VN800/P4M800CE/Pro Host Bridge
7324 CX700 Host Bridge
7327 P4M890 Host Bridge
7336 K8M890CE Host Bridge
7340 PT900 Host Bridge
7351 VT3351 Host Bridge
7364 P4M900 Host Bridge
8231 VT8231 [PCI-to-ISA Bridge]
8235 VT8235 ACPI
8305 VT8363/8365 [KT133/KM133 AGP]
8324 CX700 PCI to ISA Bridge
8391 VT8371 [KX133 AGP]
8501 VT8501 [Apollo MVP4 AGP]
8596 VT82C596 [Apollo PRO AGP]
8597 VT82C597 [Apollo VP3 AGP]
8598 VT82C598/694x [Apollo MVP3/Pro133x AGP]
1019 0985 P6VXA Motherboard
8601 VT8601 [Apollo ProMedia AGP]
8605 VT8605 [PM133 AGP]
8691 VT82C691 [Apollo Pro]
8693 VT82C693 [Apollo Pro Plus] PCI Bridge
a208 PT890 PCI to PCI Bridge Controller
a238 K8T890 PCI to PCI Bridge Controller
a327 P4M890 PCI to PCI Bridge Controller

a364 P4M900 PCI to PCI Bridge Controller
b091 VT8633 [Apollo Pro266 AGP]
b099 VT8366/A/7 [Apollo KT266/A/333 AGP]
b101 VT8653 AGP Bridge
b102 VT8362 AGP Bridge
b103 VT8615 AGP Bridge
b112
VT8361 [KLE133] AGP Bridge
b113 VPX/VPX2 I/O APIC Interrupt Controller
b115 VT8363/8365 [KT133/KM133] PCI Bridge
b168 VT8235 PCI Bridge
b188 VT8237 PCI bridge [K8T800/K8T890 South]
147b 1407 KV8-MAX3 motherboard
b198 VT8237 PCI Bridge
b213 VPX/VPX2 I/O APIC Interrupt Controller
b999 [K8T890 North / VT8237 South] PCI Bridge
c208 PT890 PCI to PCI Bridge Controller
c238 K8T890 PCI to PCI Bridge Controller
c327 P4M890 PCI to PCI Bridge Controller
c340 PT900 PCI to PCI Bridge Controller
c364 P4M900 PCI to PCI Bridge Controller
d104 VT8237 Integrated Fast Ethernet Controller
d208 PT890 PCI to PCI Bridge Controller
d213 VPX/VPX2 PCI to PCI Bridge Controller
d238 K8T890 PCI to PCI Bridge Controller
d340 PT900 PCI to PCI Bridge Controller
e208 PT890 PCI to PCI Bridge Controller
e238 K8T890 PCI to PCI Bridge Controller
e340 PT900 PCI to PCI Bridge Controller
f208 PT890 PCI to PCI Bridge Controller
f238 K8T890 PCI to PCI Bridge Controller
f340
PT900 PCI to PCI Bridge Controller
1107 Stratus Computers
0576 VIA VT82C570MV [Apollo] (Wrong vendor ID!)
1108 Proteon, Inc.
0100 p1690plus_AA
0101 p1690plus_AB
0105 P1690Plus
0108 P1690Plus
0138 P1690Plus
0139 P1690Plus
013c P1690Plus
013d P1690Plus
1109 Cogent Data Technologies, Inc.
1400 EM110TX [EX110TX]
110a Siemens Nixdorf AG
0002 Pirahna 2-port

0005 Tulip controller, power management, switch extender
0006 FSC PINC (I/O-APIC)
0015 FSC Multiprocessor Interrupt Controller
001d FSC Copernicus Management Controller
007b FSC Remote Service Controller, mailbox device
007c FSC Remote Service Controller, shared memory device
007d FSC Remote Service Controller, SMIC device
2101 HST SAPHIR V Primary PCI (ISDN/PMx)
Superfastcom-PCI (Commtech, Inc.) or DSCC4 WAN Adapter
2102 DSCC4 PEB/PEF 20534 DMA Supported Serial Communication Controller with 4 Channels
2104 Eicon Diva 2.02 compatible passive ISDN card
3142 SIMATIC NET CP 5613A1 (Profibus
Adapter)
4021 SIMATIC NET CP 5512 (Profibus and MPI Cardbus Adapter)
4029 SIMATIC NET CP 5613A2 (Profibus Adapter)
4942 FPGA I-Bus Tracer for MBD
6120 SZB6120
110b Chromatic Research Inc.
0001 Mpact Media Processor
0004 Mpact 2
110c Mini-Max Technology, Inc.
110d Znyx Advanced Systems
110e CPU Technology
110f Ross Technology
1110 Powerhouse Systems
6037 Firepower Powerized SMP I/O ASIC
6073 Firepower Powerized SMP I/O ASIC
1111 Santa Cruz Operation
Also claimed to be RNS or Rockwell International, current PCISIG records list Osicom
1112 Osicom Technologies Inc
2200 FDDI Adapter
2300 Fast Ethernet Adapter
2340 4 Port Fast Ethernet Adapter
2400 ATM Adapter
1113 Accton Technology Corporation
1211 SMC2-1211TX
103c 1207 EN-1207D Fast Ethernet Adapter
1113 1211 EN-1207D Fast Ethernet Adapter
1216 EN-1216 Ethernet Adapter
1113 2242 EN2242 10/100 Ethernet Mini-PCI Card
111a 1020 SpeedStream 1020 PCI 10/100 Ethernet Adaptor [EN-1207F-TX
?]
1217 EN-1217 Ethernet Adapter
5105 10Mbps Network card
9211 EN-1207D Fast Ethernet Adapter
1113 9211 EN-1207D Fast Ethernet Adapter
9511 21x4x DEC-Tulip compatible Fast Ethernet
d301 CPWNA100 (Philips wireless PCMCIA)

ec02 SMC 1244TX v3
1114 Atmel Corporation
0506 at76c506 802.11b Wireless Network Adaptor
1115 3D Labs
1116 Data Translation
0022 DT3001
0023 DT3002
0024 DT3003
0025 DT3004
0026 DT3005
0027 DT3001-PGL
0028 DT3003-PGL
1117 Datacube, Inc
9500 Max-1C SVGA card
9501 Max-1C image processing
1118 Berg Electronics
1119 ICP Vortex Computersysteme GmbH
0000 GDT 6000/6020/6050
0001 GDT 6000B/6010
0002 GDT 6110/6510
0003 GDT 6120/6520
0004 GDT 6530
0005 GDT 6550
0006 GDT 6117/6517
0007 GDT 6127/6527
0008 GDT 6537
0009 GDT 6557/6557-ECC
000a GDT 6115/6515
000b GDT 6125/6525
000c GDT 6535
000d GDT 6555/6555-ECC
0100 GDT 6117RP/6517RP
0101 GDT 6127RP/6527RP
0102 GDT 6537RP
0103 GDT 6557RP
0104 GDT 6111RP/6511RP
0105
GDT 6121RP/6521RP
0110 GDT 6117RD/6517RD
0111 GDT 6127RD/6527RD
0112 GDT 6537RD
0113 GDT 6557RD
0114 GDT 6111RD/6511RD
0115 GDT 6121RD/6521RD
0118 GDT 6118RD/6518RD/6618RD
0119 GDT 6128RD/6528RD/6628RD
011a GDT 6538RD/6638RD
011b GDT 6558RD/6658RD

0120 GDT 6117RP2/6517RP2
0121 GDT 6127RP2/6527RP2
0122 GDT 6537RP2
0123 GDT 6557RP2
0124 GDT 6111RP2/6511RP2
0125 GDT 6121RP2/6521RP2
0136 GDT 6113RS/6513RS
0137 GDT 6123RS/6523RS
0138 GDT 6118RS/6518RS/6618RS
0139 GDT 6128RS/6528RS/6628RS
013a GDT 6538RS/6638RS
013b GDT 6558RS/6658RS
013c GDT 6533RS/6633RS
013d GDT 6543RS/6643RS
013e GDT 6553RS/6653RS
013f GDT 6563RS/6663RS
0166 GDT 7113RN/7513RN/7613RN
0167 GDT 7123RN/7523RN/7623RN
0168 GDT 7118RN/7518RN/7518RN
0169 GDT 7128RN/7528RN/7628RN
016a GDT 7538RN/7638RN
016b GDT 7558RN/7658RN
016c GDT 7533RN/7633RN
016d GDT 7543RN/7643RN
016e GDT 7553RN/7653RN
016f GDT 7563RN/7663RN
01d6 GDT 4x13RZ
01d7 GDT 4x23RZ
01f6
GDT 8x13RZ
01f7 GDT 8x23RZ
01fc GDT 8x33RZ
01fd GDT 8x43RZ
01fe GDT 8x53RZ
01ff GDT 8x63RZ
0210 GDT 6519RD/6619RD
0211 GDT 6529RD/6629RD
0260 GDT 7519RN/7619RN
0261 GDT 7529RN/7629RN
02ff GDT MAXRP
0300 GDT NEWRX
0301 GDT NEWRX2
111a Efficient Networks, Inc
0000 155P-MF1 (FPGA)
0002 155P-MF1 (ASIC)
0003 ENI-25P ATM
111a 0000 ENI-25p Miniport ATM Adapter
0005 SpeedStream (LANAI)

111a 0001 ENI-3010 ATM
111a 0009 ENI-3060 ADSL (VPI=0)
111a 0101 ENI-3010 ATM
111a 0109 ENI-3060CO ADSL (VPI=0)
111a 0809 ENI-3060 ADSL (VPI=0 or 8)
111a 0909 ENI-3060CO ADSL (VPI=0 or 8)
111a 0a09 ENI-3060 ADSL (VPI=<0..15>)
0007 SpeedStream ADSL
111a 1001 ENI-3061 ADSL [ASIC]
1203 SpeedStream 1023 Wireless PCI Adapter
111b Teledyne Electronic Systems
111c Tricord Systems Inc.
0001 Powerbis Bridge
111d Integrated Device Technology, Inc.
0001 IDT77201/77211 155Mbps ATM SAR Controller [NICStAR]
0003 IDT77222/77252 155Mbps ATM MICRO
ABR SAR Controller
0004 IDT77V252 155Mbps ATM MICRO ABR SAR Controller
0005 IDT77V222 155Mbps ATM MICRO ABR SAR Controller
111e Eldec
111f Precision Digital Images
4a47 Precision MX Video engine interface
5243 Frame capture bus interface
1120 EMC Corporation
1121 Zilog
1122 Multi-tech Systems, Inc.
1123 Excellent Design, Inc.
1124 Leutron Vision AG
2581 Picport Monochrome
1125 Eurocore
1126 Vigra
1127 FORE Systems Inc
0200 ForeRunner PCA-200 ATM
0210 PCA-200PC
0250 ATM
0300 ForeRunner PCA-200EPC ATM
0310 ATM
0400 ForeRunnerHE ATM Adapter
1127 0400 ForeRunnerHE ATM
1129 Firmworks
112a Hermes Electronics Company, Ltd.
112b Linotype - Hell AG
112c Zenith Data Systems
112d Ravicad
112e Infomedia Microelectronics Inc.
112f Imaging Technology Inc
0000 MVC IC-PCI
0001 MVC IM-PCI Video frame grabber/processor

0008 PC-CamLink PCI framegrabber
1130 Computervision
1131 Philips Semiconductors
1561 USB 1.1 Host Controller
1775 c200 C2K onboard
USB 1.1 host controller
1562 USB 2.0 Host Controller
1775 c200 C2K onboard USB 2.0 host controller
3400 SmartPCI56(UCB1500) 56K Modem
5400 TriMedia TM1000/1100
5402 TriMedia TM-1300
1244 0f00 Fritz!Card DSL
5405 TriMedia TM1500
5406 TriMedia TM1700
7130 SAA7130 Video Broadcast Decoder
102b 48d0 Matrox CronosPlus
1048 226b ELSA EX-VISION 300TV
1131 2001 10MOONS PCI TV CAPTURE CARD
1131 2005 Techcom (India) TV Tuner Card (SSD-TV-670)
1461 050c Nagase Sangyo TransGear 3000TV
1461 10ff AVerMedia DVD EZMaker
1461 2108 AverMedia AverTV/305
1461 2115 AverMedia AverTV Studio 305
153b 1152 Terratec Cinergy 200 TV
185b c100 Compro VideoMate TV PVR/FM
185b c901 Videomate DVB-T200
5168 0138 LifeView FlyVIDEO2000
7133 SAA7133/SAA7135 Video Broadcast Decoder
0000 4091 Beholder BeholdTV 409 FM
1019 4cb5 Elitegroup ECS TVP3XP FM1236 Tuner Card (NTSC,FM)
1043 0210 FlyTV mini Asus Digimatrix
1043 4843 ASUS TV-FM 7133
1043 4845
TV-FM 7135
1043 4862 P7131 Dual
1131 0000 KWorld V-Stream Studio TV Terminator
1131 2001 Proteus Pro [philips reference design]
1131 2018 Tiger reference design
1131 4ee9 MonsterTV Mobile
11bd 002b PCTV Stereo
11bd 002e PCTV 110i (saa7133)
12ab 0800 PURPLE TV
1421 0335 Instant TV DVB-T Cardbus
1421 1370 Instant TV (saa7135)
1435 7330 VFG7330
1435 7350 VFG7350
1461 1044 AVerTVHD MCE A180
1461 a14b AVerTV Studio 509

1461 f31f Avermedia AVerTV GO 007 FM
1462 6231 TV@Anywhere plus
1489 0214 LifeView FlyTV Platinum FM
14c0 1212 LifeView FlyTV Platinum Mini2
153b 1160 Cinergy 250 PCI TV
153b 1162 Terratec Cinergy 400 mobile
17de 7350 ATSC 110 Digital / Analog HDTV Tuner
185b c100 VideoMate TV
185b c900 VideoMate T750
5168 0306 LifeView FlyDVB-T DUO
5168 0319 LifeView FlyDVB Trio
5168 0502 LifeView FlyDVB-T Duo CardBus
5168 0520 LifeView FlyDVB Trio CardBus
5168 1502 LifeView FlyTV CardBus
5168 2502 LifeView
FlyDVB-T CardBus
5168 2520 LifeView FlyDVB-S Duo CardBus
5168 3502 LifeView FlyDVB-T Hybrid CardBus
5168 3520 LifeView FlyDVB Trio N CardBus
7134 SAA7134/SAA7135HL Video Broadcast Decoder
1019 4cb4 Elitegroup ECS TVP3XP FM1216 Tuner Card(PAL-BG,FM)
1043 0210 Digimatrix TV
1043 4840 ASUS TV-FM 7134
1043 4842 TV-FM 7134
1131 2004 EUROPA V3 reference design
1131 4e85 SKNet Monster TV
1131 6752 EMPRESS
11bd 002b PCTV Stereo
11bd 002d PCTV 300i DVB-T + PAL
1461 2c00 AverTV Hybrid+FM PCI
1461 9715 AVerTV Studio 307
1461 a70a Avermedia AVerTV 307
1461 a70b AverMedia M156 / Medion 2819
1461 d6ee Cardbus TV/Radio (E500)
1471 b7e9 AVerTV Cardbus plus
153b 1142 Terratec Cinergy 400 TV
153b 1143 Terratec Cinergy 600 TV
153b 1158 Terratec Cinergy 600 TV MK3
1540 9524 ProVideo PV952
16be 0003 Medion 7134
185b c200 Compro VideoMate Gold+ Pal
185b c900 Videomate DVB-T300
1894 a006 KNC One TV-Station DVR
1894 fe01 KNC
One TV-Station RDS / Typhoon TV Tuner RDS
7145 SAA7145
7146 SAA7146
110a 0000 Fujitsu/Siemens DVB-C card rev1.5

110a ffff Fujitsu/Siemens DVB-C card rev1.5
1131 4f56 KNC1 DVB-S Budget
1131 4f60 Fujitsu-Siemens Activy DVB-S Budget Rev AL
1131 4f61 Activy DVB-S Budget Rev GR
1131 5f61 Activy DVB-T Budget
114b 2003 DVRaptor Video Edit/Capture Card
11bd 0006 DV500 Overlay
11bd 000a DV500 Overlay
11bd 000f DV500 Overlay
13c2 0000 Siemens/Technotrend/Hauppauge DVB card rev1.3 or rev1.5
13c2 0001 Technotrend/Hauppauge DVB card rev1.3 or rev1.6
13c2 0002 Technotrend/Hauppauge DVB card rev2.1
13c2 0003 Technotrend/Hauppauge DVB card rev2.1
13c2 0004 Technotrend/Hauppauge DVB card rev2.1
13c2 0006 Technotrend/Hauppauge DVB card rev1.3 or rev1.6
13c2 0008 Technotrend/Hauppauge DVB-T
13c2 000a Octal/Technotrend DVB-C for iTV
13c2 1003 Technotrend-Budget/Hauppauge WinTV-NOVA-S DVB card
13c2 1004 Technotrend-Budget/Hauppauge WinTV-NOVA-C
DVB card
13c2 1005 Technotrend-Budget/Hauppauge WinTV-NOVA-T DVB card
13c2 100c Technotrend-Budget/Hauppauge WinTV-NOVA-CI DVB card
13c2 100f Technotrend-Budget/Hauppauge WinTV-NOVA-CI DVB card
13c2 1011 Technotrend-Budget/Hauppauge WinTV-NOVA-T DVB card
13c2 1012 DVB T-1500
13c2 1013 SATELCO Multimedia DVB
13c2 1016 WinTV-NOVA-SE DVB card
13c2 1018 DVB S-1401
13c2 1019 S2-3200
13c2 1102 Technotrend/Hauppauge DVB card rev2.1
153b 1156 Terratec Cynergy 1200C
1894 0020 KNC One DVB-C V1.0
9730 SAA9730 Integrated Multimedia and Peripheral Controller
1131 0000 Integrated Multimedia and Peripheral Controller
1132 Mitel Corp.
1133 Eicon Networks Corporation
7901 EiconCard S90
7902 EiconCard S90
7911 EiconCard S91
7912 EiconCard S91
7941 EiconCard S94
7942 EiconCard S94
7943 EiconCard S94
7944 EiconCard S94
b921 EiconCard P92
b922 EiconCard P92
b923 EiconCard P92
e001 Diva Pro 2.0 S/T

e002 Diva 2.0 S/T PCI
e003 Diva Pro 2.0
U
e004 Diva 2.0 U PCI
e005 Diva 2.01 S/T PCI
e006 Diva CT S/T PCI
e007 Diva CT U PCI
e008 Diva CT Lite S/T PCI
e009 Diva CT Lite U PCI
e00a Diva ISDN+V.90 PCI
e00b Diva 2.02 PCI S/T
e00c Diva 2.02 PCI U
e00d Diva ISDN Pro 3.0 PCI
e00e Diva ISDN+CT S/T PCI Rev 2
e010 Diva Server BRI-2M PCI
 110a 0021 Fujitsu Siemens ISDN S0
e011 Diva Server BRI S/T Rev 2
e012 Diva Server 4BRI-8M PCI
e013 Diva Server 4BRI Rev 2
 1133 1300 Diva Server V-4BRI-8
 1133 e013 Diva Server 4BRI-8M 2.0 PCI
e014 Diva Server PRI-30M PCI
e015 DIVA Server PRI Rev 2
 1133 e015 Diva Server PRI 2.0 PCI
e016 Diva Server Voice 4BRI PCI
e017 Diva Server Voice 4BRI Rev 2
 1133 e017 Diva Server Voice 4BRI-8M 2.0 PCI
e018 Diva Server BRI-2M 2.0 PCI
 1133 1800 Diva Server V-BRI-2
 1133 e018 Diva Server BRI-2M 2.0 PCI
e019 Diva Server Voice PRI Rev 2
 1133 e019 Diva Server Voice PRI 2.0 PCI
e01a Diva Server 2FX
e01b Diva Server Voice BRI-2M 2.0 PCI
 1133 e01b Diva
Server Voice BRI-2M 2.0 PCI
e01c Diva Server PRI Rev 3
 1133 1c01 Diva Server PRI/E1/T1-8
 1133 1c02 Diva Server PRI/T1-24
 1133 1c03 Diva Server PRI/E1-30
 1133 1c04 Diva Server PRI/E1/T1
 1133 1c05 Diva Server V-PRI/T1-24
 1133 1c06 Diva Server V-PRI/E1-30
 1133 1c07 Diva Server PRI/E1/T1-8 Cornet NQ
 1133 1c08 Diva Server PRI/T1-24 Cornet NQ
 1133 1c09 Diva Server PRI/E1-30 Cornet NQ
 1133 1c0a Diva Server PRI/E1/T1 Cornet NQ
 1133 1c0b Diva Server V-PRI/T1-24 Cornet NQ

1133 1c0c Diva Server V-PRI/E1-30 Cornet NQ
e01e Diva Server 2PRI
e020 Diva Server 4PRI
e022 Diva Server Analog-2P
e024 Diva Server Analog-4P
1133 2400 Diva Server V-Analog-4P
1133 e024 Diva Server Analog-4P
e028 Diva Server Analog-8P
1133 2800 Diva Server V-Analog-8P
1133 e028 Diva Server Analog-8P
e02a Diva Server IPM-300
e02c Diva Server IPM-600
e032 Diva BRI-2 PCIe r1
1134 Mercury Computer Systems
0001 Raceway Bridge
0002 Dual PCI to RapidIO Bridge
1135
Fuji Xerox Co Ltd
0001 Printer controller
1136 Momentum Data Systems
1137 Cisco Systems Inc
1138 Ziatech Corporation
8905 8905 [STD 32 Bridge]
1139 Dynamic Pictures, Inc
0001 VGA Compatable 3D Graphics
113a FWB Inc
113b Network Computing Devices
113c Cyclone Microsystems, Inc.
0000 PCI-9060 i960 Bridge
0001 PCI-SDK [PCI i960 Evaluation Platform]
0911 PCI-911 [i960Jx-based Intelligent I/O Controller]
0912 PCI-912 [i960CF-based Intelligent I/O Controller]
0913 PCI-913
0914 PCI-914 [I/O Controller w/ secondary PCI bus]
113d Leading Edge Products Inc
113e Sanyo Electric Co - Computer Engineering Dept
113f Equinox Systems, Inc.
0808 SST-64P Adapter
1010 SST-128P Adapter
80c0 SST-16P DB Adapter
80c4 SST-16P RJ Adapter
80c8 SST-16P Adapter
8888 SST-4P Adapter
9090 SST-8P Adapter
1140 Intervoice Inc
1141 Crest Microsystem Inc
1142 Alliance Semiconductor Corporation
3210 AP6410

6422 ProVideo 6422
6424 ProVideo 6424
6425 ProMotion AT25
643d
 ProMotion AT3D
1143 NetPower, Inc
1144 Cincinnati Milacron
0001 Noservo controller
1145 Workbit Corporation
8007 NinjaSCSI-32 Workbit
f007 NinjaSCSI-32 KME
f010 NinjaSCSI-32 Workbit
f012 NinjaSCSI-32 Logitec
f013 NinjaSCSI-32 Logitec
f015 NinjaSCSI-32 Melco
f020 NinjaSCSI-32 Sony PCGA-DVD51
1146 Force Computers
1147 Interface Corp
Nee Schneider & Koch
1148 SysKonnect
4000 FDDI Adapter
 0e11 b03b Netelligent 100 FDDI DAS Fibre SC
 0e11 b03c Netelligent 100 FDDI SAS Fibre SC
 0e11 b03d Netelligent 100 FDDI DAS UTP
 0e11 b03e Netelligent 100 FDDI SAS UTP
 0e11 b03f Netelligent 100 FDDI SAS Fibre MIC
 1148 5521 FDDI SK-5521 (SK-NET FDDI-UP)
 1148 5522 FDDI SK-5522 (SK-NET FDDI-UP DAS)
 1148 5541 FDDI SK-5541 (SK-NET FDDI-FP)
 1148 5543 FDDI SK-5543 (SK-NET FDDI-LP)
 1148 5544 FDDI SK-5544 (SK-NET FDDI-LP DAS)
 1148 5821 FDDI SK-5821 (SK-NET FDDI-UP64)
 1148 5822 FDDI SK-5822 (SK-NET FDDI-UP64 DAS)
 1148 5841 FDDI SK-5841 (SK-NET FDDI-FP64)
 1148
5843 FDDI SK-5843 (SK-NET FDDI-LP64)
 1148 5844 FDDI SK-5844 (SK-NET FDDI-LP64 DAS)
4200 Token Ring adapter
4300 SK-9872 Gigabit Ethernet Server Adapter (SK-NET GE-ZX dual link)
 1148 9821 SK-9821 Gigabit Ethernet Server Adapter (SK-NET GE-T)
 1148 9822 SK-9822 Gigabit Ethernet Server Adapter (SK-NET GE-T dual link)
 1148 9841 SK-9841 Gigabit Ethernet Server Adapter (SK-NET GE-LX)
 1148 9842 SK-9842 Gigabit Ethernet Server Adapter (SK-NET GE-LX dual link)
 1148 9843 SK-9843 Gigabit Ethernet Server Adapter (SK-NET GE-SX)
 1148 9844 SK-9844 Gigabit Ethernet Server Adapter (SK-NET GE-SX dual link)
 1148 9861 SK-9861 Gigabit Ethernet Server Adapter (SK-NET GE-SX Volition)
 1148 9862 SK-9862 Gigabit Ethernet Server Adapter (SK-NET GE-SX Volition dual link)
 1148 9871 SK-9871 Gigabit Ethernet Server Adapter (SK-NET GE-ZX)

1148 9872 SK-9872 Gigabit Ethernet Server Adapter (SK-NET GE-ZX dual link)
1259 2970 AT-2970SX Gigabit Ethernet Adapter
1259 2971
AT-2970LX Gigabit Ethernet Adapter
1259 2972 AT-2970TX Gigabit Ethernet Adapter
1259 2973 AT-2971SX Gigabit Ethernet Adapter
1259 2974 AT-2971T Gigabit Ethernet Adapter
1259 2975 AT-2970SX/2SC Gigabit Ethernet Adapter
1259 2976 AT-2970LX/2SC Gigabit Ethernet Adapter
1259 2977 AT-2970TX/2TX Gigabit Ethernet Adapter
4320 SK-9871 V2.0 Gigabit Ethernet 1000Base-ZX Adapter, PCI64, Fiber ZX/SC
1148 0121 Marvell RDK-8001 Adapter
1148 0221 Marvell RDK-8002 Adapter
1148 0321 Marvell RDK-8003 Adapter
1148 0421 Marvell RDK-8004 Adapter
1148 0621 Marvell RDK-8006 Adapter
1148 0721 Marvell RDK-8007 Adapter
1148 0821 Marvell RDK-8008 Adapter
1148 0921 Marvell RDK-8009 Adapter
1148 1121 Marvell RDK-8011 Adapter
1148 1221 Marvell RDK-8012 Adapter
1148 3221 SK-9521 V2.0 10/100/1000Base-T Adapter
1148 5021 SK-9821 V2.0 Gigabit Ethernet 10/100/1000Base-T Adapter
1148 5041 SK-9841 V2.0 Gigabit Ethernet 1000Base-LX Adapter
1148 5043 SK-9843
V2.0 Gigabit Ethernet 1000Base-SX Adapter
1148 5051 SK-9851 V2.0 Gigabit Ethernet 1000Base-SX Adapter
1148 5061 SK-9861 V2.0 Gigabit Ethernet 1000Base-SX Adapter
1148 5071 SK-9871 V2.0 Gigabit Ethernet 1000Base-ZX Adapter
1148 9521 SK-9521 10/100/1000Base-T Adapter
4400 SK-9Dxx Gigabit Ethernet Adapter
4500 SK-9Mxx Gigabit Ethernet Adapter
9000 SK-9S21 10/100/1000Base-T Server Adapter, PCI-X, Copper RJ-45
9843 [Fujitsu] Gigabit Ethernet
9e00 SK-9E21D 10/100/1000Base-T Adapter, Copper RJ-45
1148 2100 SK-9E21 Server Adapter
1148 21d0 SK-9E21D 10/100/1000Base-T Adapter
1148 2200 SK-9E22 Server Adapter
1148 8100 SK-9E81 Server Adapter
1148 8200 SK-9E82 Server Adapter
1148 9100 SK-9E91 Server Adapter
1148 9200 SK-9E92 Server Adapter
1149 Win System Corporation
114a VMIC
5579 VMIPCI-5579 (Reflective Memory Card)
5587 VMIPCI-5587 (Reflective Memory Card)
6504 VMIC PCI 7755 FPGA
7587 VMIVME-7587

114b Canopus Co., Ltd
114c Annabooks
114d
IC Corporation
114e Nikon Systems Inc
114f Digi International
0002 AccelePort EPC
0003 RightSwitch SE-6
0004 AccelePort Xem
0005 AccelePort Xr
0006 AccelePort Xr,C/X
0009 AccelePort Xr/J
000a AccelePort EPC/J
000c DataFirePRIme T1 (1-port)
000d SyncPort 2-Port (x.25/FR)
0011 AccelePort 8r EIA-232 (IBM)
0012 AccelePort 8r EIA-422
0013 AccelePort Xr
0014 AccelePort 8r EIA-422
0015 AccelePort Xem
0016 AccelePort EPC/X
0017 AccelePort C/X
001a DataFirePRIme E1 (1-port)
001b AccelePort C/X (IBM)
001d DataFire RAS T1/E1/PRI
114f 0050 DataFire RAS E1 Adapter
114f 0051 DataFire RAS Dual E1 Adapter
114f 0052 DataFire RAS T1 Adapter
114f 0053 DataFire RAS Dual T1 Adapter
0023 AccelePort RAS
0024 DataFire RAS B4 ST/U
114f 0030 DataFire RAS BRI U Adapter
114f 0031 DataFire RAS BRI S/T Adapter
0026 AccelePort 4r 920
0027 AccelePort Xr 920
0028 ClassicBoard 4
0029 ClassicBoard 8
0034 AccelePort 2r 920
0035 DataFire DSP T1/E1/PRI
cPCI
0040 AccelePort Xp
0042 AccelePort 2p
0043 AccelePort 4p
0044 AccelePort 8p
0045 AccelePort 16p
004e AccelePort 32p
0070 Datafire Micro V IOM2 (Europe)
0071 Datafire Micro V (Europe)

0072 Datafire Micro V IOM2 (North America)
0073 Datafire Micro V (North America)
00b0 Digi Neo 4
00b1 Digi Neo 8
00c8 Digi Neo 2 DB9
00c9 Digi Neo 2 DB9 PRI
00ca Digi Neo 2 RJ45
00cb Digi Neo 2 RJ45 PRI
00d0 ClassicBoard 4 422
00d1 ClassicBoard 8 422
6001 Avanstar
1150 Thinking Machines Corp
1151 JAE Electronics Inc.
1152 Megatek
1153 Land Win Electronic Corp
1154 Melco Inc
1155 Pine Technology Ltd
1156 Periscope Engineering
1157 Avsys Corporation
1158 Voarx R & D Inc
3011 Tokenet/vg 1001/10m anylan
9050 Lanfleet/Truevalue
9051 Lanfleet/Truevalue
1159 Mutech Corp
0001 MV-1000
115a Harlequin Ltd
115b Parallax Graphics
115c Photron Ltd.
115d Xircom
0003 Cardbus Ethernet 10/100
1014 0181 10/100 EtherJet Cardbus Adapter
1014 1181 10/100
EtherJet Cardbus Adapter
1014 8181 10/100 EtherJet Cardbus Adapter
1014 9181 10/100 EtherJet Cardbus Adapter
115d 0181 Cardbus Ethernet 10/100
115d 0182 RealPort2 CardBus Ethernet 10/100 (R2BE-100)
115d 1181 Cardbus Ethernet 10/100
1179 0181 Cardbus Ethernet 10/100
8086 8181 EtherExpress PRO/100 Mobile CardBus 32 Adapter
8086 9181 EtherExpress PRO/100 Mobile CardBus 32 Adapter
0005 Cardbus Ethernet 10/100
1014 0182 10/100 EtherJet Cardbus Adapter
1014 1182 10/100 EtherJet Cardbus Adapter
115d 0182 Cardbus Ethernet 10/100
115d 1182 Cardbus Ethernet 10/100
0007 Cardbus Ethernet 10/100
1014 0182 10/100 EtherJet Cardbus Adapter

1014 1182 10/100 EtherJet Cardbus Adapter
115d 0182 Cardbus Ethernet 10/100
115d 1182 Cardbus Ethernet 10/100
000b Cardbus Ethernet 10/100
1014 0183 10/100 EtherJet Cardbus Adapter
115d 0183 Cardbus Ethernet 10/100
000c Mini-PCI V.90 56k Modem
000f Cardbus Ethernet 10/100
1014 0183 10/100 EtherJet
Cardbus Adapter
115d 0183 Cardbus Ethernet 10/100
00d4 Mini-PCI K56Flex Modem
0101 Cardbus 56k modem
115d 1081 Cardbus 56k Modem
0103 Cardbus Ethernet + 56k Modem
1014 9181 Cardbus 56k Modem
1115 1181 Cardbus Ethernet 100 + 56k Modem
115d 1181 CBEM56G-100 Ethernet + 56k Modem
8086 9181 PRO/100 LAN + Modem56 CardBus
115e Peer Protocols Inc
115f Maxtor Corporation
1160 Megasoft Inc
1161 PFU Limited
1162 OA Laboratory Co Ltd
1163 Rendition
0001 Verite 1000
2000 Verite V2000/V2100/V2200
1092 2000 Stealth II S220
1164 Advanced Peripherals Technologies
1165 Imagraph Corporation
0001 Motion TPEG Recorder/Player with audio
nee ServerWorks
1166 Broadcom
0000 CMIC-LE
0005 CNB20-LE Host Bridge
0006 CNB20HE Host Bridge
0007 CNB20-LE Host Bridge
0008 CNB20HE Host Bridge
0009 CNB20LE Host Bridge
0010 CIOB30
0011 CMIC-HE
0012 CMIC-WS Host Bridge (GC-LE chipset)
0013 CNB20-HE Host Bridge
0014 CMIC-LE Host Bridge (GC-LE chipset)
0015 CMIC-GC
Host Bridge
0016 CMIC-GC Host Bridge
0017 GCNB-LE Host Bridge

0036 BCM5785 [HT1000] PCI/PCI-X Bridge
0101 CIOB-X2 PCI-X I/O Bridge
0103 EPB PCI-Express to PCI-X Bridge
0104 BCM5785 [HT1000] PCI/PCI-X Bridge
0110 CIOB-E I/O Bridge with Gigabit Ethernet
0130 BCM5780 [HT2000] PCI-X bridge
0132 BCM5780 [HT2000] PCI-Express Bridge
 1166 0132 HT2000 PCI-Express bridge
0140 HT2100 PCI-Express Bridge
0141 HT2100 PCI-Express Bridge
0142 HT2100 PCI-Express Bridge
0144 HT2100 PCI-Express Bridge
0200 OSB4 South Bridge
0201 CSB5 South Bridge
 4c53 1080 CT8 mainboard
0203 CSB6 South Bridge
 1734 1012 Primergy RX300
0205 BCM5785 [HT1000] Legacy South Bridge
0211 OSB4 IDE Controller
0212 CSB5 IDE Controller
 1028 810b PowerEdge 2550
 4c53 1080 CT8 mainboard
0213 CSB6 RAID/IDE Controller
 1028 4134 PowerEdge 600SC
 1028 c134 Poweredge SC600
 1734 1012 Primergy RX300
0214 BCM5785 [HT1000] IDE
0217 CSB6 IDE Controller
 1028 4134 Poweredge
SC600
0220 OSB4/CSB5 OHCI USB Controller
 4c53 1080 CT8 mainboard
0221 CSB6 OHCI USB Controller
 1734 1012 Primergy RX300
0223 BCM5785 [HT1000] USB
0225 CSB5 LPC bridge
0227 GCLE-2 Host Bridge
 1734 1012 Primergy RX300
0230 CSB5 LPC bridge
 4c53 1080 CT8 mainboard
0234 BCM5785 [HT1000] LPC
0235 BCM5785 [HT1000] XIOAPIC0-2
0238 BCM5785 [HT1000] WDTimer
0240 K2 SATA
0241 RAIDCore RC4000
0242 RAIDCore BC4000
024a BCM5785 [HT1000] SATA (Native SATA Mode)
The device starts as 024A, and changes to 024B if set to PATA mode in BIOS

024b BCM5785 [HT1000] SATA (PATA/IDE Mode)
1167 Mutoh Industries Inc
1168 Thine Electronics Inc
1169 Centre for Development of Advanced Computing
116a Polaris Communications
6100 Bus/Tag Channel
6800 Escon Channel
7100 Bus/Tag Channel
7800 Escon Channel
116b Connectware Inc
116c Intelligent Resources Integrated Systems
116d Martin-Marietta
116e Electronics for Imaging
116f Workstation Technology
1170 Inventec
Corporation
1171 Loughborough Sound Images Plc
1172 Altera Corporation
1173 Adobe Systems, Inc
1174 Bridgeport Machines
1175 Mitron Computer Inc.
1176 SBE Incorporated
1177 Silicon Engineering
1178 Alfa, Inc.
afa1 Fast Ethernet Adapter
1179 Toshiba America Info Systems
0102 Extended IDE Controller
0103 EX-IDE Type-B
0404 DVD Decoder card
0406 Tecra Video Capture device
0407 DVD Decoder card (Version 2)
0601 CPU to PCI bridge
1179 0001 Satellite Pro
0603 ToPIC95 PCI to CardBus Bridge for Notebooks
060a ToPIC95
1179 0001 Satellite Pro
060f ToPIC97
0617 ToPIC100 PCI to Cardbus Bridge with ZV Support
0618 CPU to PCI and PCI to ISA bridge
Claimed to be Lucent DSP1645 [Mars], but that's apparently incorrect. Does anyone know the correct ID?
0701 FIR Port
0804 TC6371AF SmartMedia Controller
0805 SD TypA Controller
0d01 FIR Port Type-DO
1179 0001 FIR Port Type-DO
117a A-Trend Technology
117b L G Electronics, Inc.
117c Atto Technology

0030
 Ultra320 SCSI Host Adapter
 117c 8013 ExpressPCI UL4D
 117c 8014 ExpressPCI UL4S
117d Becton & Dickinson
117e T/R Systems
117f Integrated Circuit Systems
1180 Ricoh Co Ltd
 0465 RL5c465
 0466 RL5c466
 0475 RL5c475
 144d c006 vpr Matrix 170B4 CardBus bridge
 0476 RL5c476 II
 1014 0185 ThinkPad A/T/X Series
 1028 014f Latitude X300 laptop
 1028 0188 Inspiron 6000 laptop
 1043 1967 V6800V
 1043 1987 Asus A4K and Z81K notebooks, possibly others (mid-2005 machines)
 104d 80df Vaio PCG-FX403
 104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
 104d 814e VAIO GRZ390Z
 10f7 8338 Panasonic CF-Y5 laptop
 144d c00c P30/P35 notebook
 14ef 0220 PCD-RP-220S
 17aa 201c Thinkpad X60s
 0477 RL5c477
 0478 RL5c478
 1014 0184 ThinkPad A30p (2653-64G)
 0511 R5C511
 0522 R5C522 IEEE 1394 Controller
 1014 01cf ThinkPad A30p (2653-64G)
 1043 1967 V6800V
 0551 R5C551 IEEE 1394 Controller
 144d c006 vpr Matrix 170B4
 0552 R5C552 IEEE 1394 Controller
 1014
 0511 ThinkPad A/T/X Series
 1028 014f Latitude X300 laptop
 1028 0188 Inspiron 6000 laptop
 144d c00c P30/P35 notebook
 17aa 201e Thinkpad X60s
 0554 R5C554
 0575 R5C575 SD Bus Host Adapter
 0576 R5C576 SD Bus Host Adapter
 0592 R5C592 Memory Stick Bus Host Adapter
 1043 1967 V6800V
 144d c018 X20 IV
 0811 R5C811

0822 R5C822 SD/SDIO/MMC/MS/MSPro Host Adapter
 1014 0556 Thinkpad X40
 1014 0598 Thinkpad Z60m
 1028 0188 Inspiron 6000 laptop
 1028 01a2 Inspiron 9200
 1043 1967 ASUS V6800V
 10f7 8338 Panasonic CF-Y5 laptop
 144d c018 X20 IV
 17aa 201d Thinkpad X60s
0832 R5C832 IEEE 1394 Controller
0841 R5C841 CardBus/SD/SDIO/MMC/MS/MSPro/xD/IEEE1394
0852 xD-Picture Card Controller
 1043 1967 V6800V
1181 Telmatics International
1183 Fujikura Ltd
1184 Forks Inc
1185 Dataworld International Ltd
1186 D-Link System Inc
0100 DC21041
1002 DL10050 Sundance Ethernet
 1186 1002 DFE-550TX/FX
 1186 1012 DFE-580TX
1025 AirPlus Xtreme
G DWL-G650 Adapter
1026 AirXpert DWL-AG650 Wireless Cardbus Adapter
1043 AirXpert DWL-AG650 Wireless Cardbus Adapter
1300 RTL8139 Ethernet
 1186 1300 DFE-538TX 10/100 Ethernet Adapter
 1186 1301 DFE-530TX+ 10/100 Ethernet Adapter
 1186 1303 DFE-528TX 10/100 Fast Ethernet PCI Adapter
1340 DFE-690TXD CardBus PC Card
1405 DFE-520TX Fast Ethernet PCI Adapter
1541 DFE-680TXD CardBus PC Card
1561 DRP-32TXD Cardbus PC Card
2027 AirPlus Xtreme G DWL-G520 Adapter
3203 AirPlus Xtreme G DWL-G520 Adapter
3300 DWL-510 2.4GHz Wireless PCI Adapter
3a03 AirPro DWL-A650 Wireless Cardbus Adapter(rev.B)
3a04 AirPro DWL-AB650 Multimode Wireless Cardbus Adapter
3a05 AirPro DWL-AB520 Multimode Wireless PCI Adapter
3a07 AirXpert DWL-AG650 Wireless Cardbus Adapter
3a08 AirXpert DWL-AG520 Wireless PCI Adapter
3a10 AirXpert DWL-AG650 Wireless Cardbus Adapter(rev.B)
3a11 AirXpert DWL-AG520 Wireless PCI Adapter(rev.B)
3a12 AirPlus DWL-G650 Wireless Cardbus Adapter(rev.C)
3a13
 AirPlus DWL-G520 Wireless PCI Adapter(rev.B)
3a14 AirPremier DWL-AG530 Wireless PCI Adapter

3a63 AirXpert DWL-AG660 Wireless Cardbus Adapter
4000 DL2000-based Gigabit Ethernet
4300 DGE-528T Gigabit Ethernet Adapter
There are at least 3 revisions of this adapter; 4800 is board revision A1 as far as I can tell, revision B1 is 4c00.
4800 DGE-530T Gigabit Ethernet Adapter (rev 11)
4b01 DGE-530T Gigabit Ethernet Adapter (rev 11)
4c00 Gigabit Ethernet Adapter
1186 4c00 DGE-530T Gigabit Ethernet Adapter
8400 D-Link DWL-650+ CardBus PC Card
1187 Advanced Technology Laboratories, Inc.
1188 Shima Seiki Manufacturing Ltd.
1189 Matsushita Electronics Co Ltd
118a Hilevel Technology
118b Hypertec Pty Limited
118c Corollary, Inc
0014 PCIB [C-bus II to PCI bus host bridge chip]
1117 Intel 8-way XEON Profusion Chipset [Cache Coherency Filter]
118d BitFlow Inc
0001 Raptor-PCI framegrabber
0012 Model 12 Road Runner Frame Grabber
0014 Model 14 Road Runner Frame
Grabber
0024 Model 24 Road Runner Frame Grabber
0044 Model 44 Road Runner Frame Grabber
0112 Model 12 Road Runner Frame Grabber
0114 Model 14 Road Runner Frame Grabber
0124 Model 24 Road Runner Frame Grabber
0144 Model 44 Road Runner Frame Grabber
0212 Model 12 Road Runner Frame Grabber
0214 Model 14 Road Runner Frame Grabber
0224 Model 24 Road Runner Frame Grabber
0244 Model 44 Road Runner Frame Grabber
0312 Model 12 Road Runner Frame Grabber
0314 Model 14 Road Runner Frame Grabber
0324 Model 24 Road Runner Frame Grabber
0344 Model 44 Road Runner Frame Grabber
118e Hermstedt GmbH
118f Green Logic
1190 Tripace
c731 TP-910/920/940 PCI Ultra(Wide) SCSI Adapter
1191 Artop Electronic Corp
0003 SCSI Cache Host Adapter
0004 ATP8400
0005 ATP850UF
0006 ATP860 NO-BIOS
0007 ATP860
0008 ATP865 NO-ROM
0009 ATP865

8002 AEC6710 SCSI-2 Host Adapter
8010 AEC6712UW SCSI
8020 AEC6712U SCSI
8030 AEC6712S SCSI
8040 AEC6712D SCSI
8050 AEC6712SUW
SCSI
8060 AEC6712 SCSI
8080 AEC67160 SCSI
8081 AEC67160S SCSI
808a AEC67162 2-ch. LVD SCSI
1192 Densan Company Ltd
1193 Zeitnet Inc.
0001 1221
0002 1225
1194 Toucan Technology
1195 Ratoc System Inc
1196 Hytec Electronics Ltd
1197 Gage Applied Sciences, Inc.
010c CompuScope 82G 8bit 2GS/s Analog Input Card
1198 Lambda Systems Inc
1199 Attachmate Corporation
119a Mind Share, Inc.
119b Omega Micro Inc.
1221 82C092G
119c Information Technology Inst.
119d Bug, Inc. Sapporo Japan
119e Fujitsu Microelectronics Ltd.
0001 FireStream 155
0003 FireStream 50
119f Bull HN Information Systems
11a0 Convex Computer Corporation
11a1 Hamamatsu Photonics K.K.
11a2 Sierra Research and Technology
11a3 Deuretzbacher GmbH & Co. Eng. KG
11a4 Barco Graphics NV
11a5 Microunity Systems Eng. Inc
11a6 Pure Data Ltd.
11a7 Power Computing Corp.
11a8 Systech Corp.
11a9 InnoSys Inc.
4240 AMCC S933Q Intelligent Serial Card
11aa Actel
Nee Galileo Technology, Inc.
11ab Marvell
Technology Group Ltd.
0146 GT-64010/64010A System Controller
0f53 88E6318 Link Street network controller

11ab MV88SE614x SATA II PCI-E controller
138f W8300 802.11 Adapter (rev 07)
1fa6 Marvell W8300 802.11 Adapter
1fa7 88W8310 and 88W8000G [Libertas] 802.11g client chipset
1faa 88w8335 [Libertas] 802.11b/g Wireless
 1385 4e00 WG511 v2 54MBit/ Wireless PC-Card
2a01 88W8335 [Libertas] 802.11b/g Wireless
4320 88E8001 Gigabit Ethernet Controller
 1019 0f38 Marvell 88E8001 Gigabit Ethernet Controller (ECS)
 1019 8001 Marvell 88E8001 Gigabit Ethernet Controller (ECS)
 1043 173c Marvell 88E8001 Gigabit Ethernet Controller (Asus)
 1043 811a Marvell 88E8001 Gigabit Ethernet Controller (Asus)
 105b 0c19 Marvell 88E8001 Gigabit Ethernet Controller (Foxconn)
 10b8 b452 EZ Card 1000 (SMC9452TXV.2)
 11ab 0121 Marvell RDK-8001
 11ab 0321 Marvell RDK-8003
 11ab 1021 Marvell RDK-8010
 11ab 4320 Marvell Yukon Gigabit Ethernet 10/100/1000Baset-T Constroller
(Asus)
 11ab 5021 Marvell Yukon Gigabit Ethernet 10/100/1000Base-T Controller (64 bit)
 11ab 9521 Marvell Yukon Gigabit Ethernet 10/100/1000Base-T Controller (32 bit)
 1458 e000 Marvell 88E8001 Gigabit Ethernet Controller (Gigabyte)
 147b 1406 Marvell 88E8001 Gigabit Ethernet Controller (Abit)
 15d4 0047 Marvell 88E8001 Gigabit Ethernet Controller (Iwill)
 1695 9025 Marvell 88E8001 Gigabit Ethernet Controller (Epox)
 17f2 1c03 Marvell 88E8001 Gigabit Ethernet Controller (Albatron)
 270f 2803 Marvell 88E8001 Gigabit Ethernet Controller (Chaintech)
4340 88E8021 PCI-X IPMI Gigabit Ethernet Controller
4341 88E8022 PCI-X IPMI Gigabit Ethernet Controller
4342 88E8061 PCI-E IPMI Gigabit Ethernet Controller
4343 88E8062 PCI-E IPMI Gigabit Ethernet Controller
4344 88E8021 PCI-X IPMI Gigabit Ethernet Controller
4345 88E8022 PCI-X IPMI Gigabit Ethernet Controller
4346 88E8061 PCI-E IPMI Gigabit Ethernet Controller
4347 88E8062 PCI-E IPMI Gigabit Ethernet Controller
 4c53
10d0 Telum ASLP10 PrAMC Gigabit Ethernet
4350 88E8035 PCI-E Fast Ethernet Controller
 1179 0001 Marvell 88E8035 Fast Ethernet Controller (Toshiba)
 11ab 3521 Marvell RDK-8035
 1854 000d Marvell 88E8035 Fast Ethernet Controller (LGE)
 1854 000e Marvell 88E8035 Fast Ethernet Controller (LGE)
 1854 000f Marvell 88E8035 Fast Ethernet Controller (LGE)
 1854 0011 Marvell 88E8035 Fast Ethernet Controller (LGE)
 1854 0012 Marvell 88E8035 Fast Ethernet Controller (LGE)
 1854 0016 Marvell 88E8035 Fast Ethernet Controller (LGE)
 1854 0017 Marvell 88E8035 Fast Ethernet Controller (LGE)
 1854 0018 Marvell 88E8035 Fast Ethernet Controller (LGE)

1854 0019 Marvell 88E8035 Fast Ethernet Controller (LGE)
1854 001c Marvell 88E8035 Fast Ethernet Controller (LGE)
1854 001e Marvell 88E8035 Fast Ethernet Controller (LGE)
1854 0020 Marvell 88E8035 Fast Ethernet Controller (LGE)
4351 88E8036 PCI-E Fast Ethernet Controller
107b 4009 Marvell 88E8036 Fast Ethernet Controller
(Wistron)
10f7 8338 Marvell 88E8036 Fast Ethernet Controller (Panasonic)
1179 0001 Marvell 88E8036 Fast Ethernet Controller (Toshiba)
1179 ff00 Marvell 88E8036 Fast Ethernet Controller (Compal)
1179 ff10 Marvell 88E8036 Fast Ethernet Controller (Inventec)
11ab 3621 Marvell RDK-8036
13d1 ac12 Abocom EFE3K - 10/100 Ethernet Expresscard
161f 203d Marvell 88E8036 Fast Ethernet Controller (Arima)
1854 000d Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 000e Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 000f Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0011 Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0012 Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0016 Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0017 Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0018 Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0019 Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 001c Marvell 88E8036 Fast
Ethernet Controller (LGE)
1854 001e Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0020 Marvell 88E8036 Fast Ethernet Controller (LGE)
4352 88E8038 PCI-E Fast Ethernet Controller
4360 88E8052 PCI-E ASF Gigabit Ethernet Controller
1043 8134 Marvell 88E8052 Gigabit Ethernet Controller (Asus)
107b 4009 Marvell 88E8052 Gigabit Ethernet Controller (Wistron)
11ab 5221 Marvell RDK-8052
1458 e000 Marvell 88E8052 Gigabit Ethernet Controller (Gigabyte)
1462 052c Marvell 88E8052 Gigabit Ethernet Controller (MSI)
1849 8052 Marvell 88E8052 Gigabit Ethernet Controller (ASRock)
a0a0 0509 Marvell 88E8052 Gigabit Ethernet Controller (Aopen)
4361 88E8050 PCI-E ASF Gigabit Ethernet Controller
107b 3015 Marvell 88E8050 Gigabit Ethernet Controller (Gateway)
11ab 5021 Marvell 88E8050 Gigabit Ethernet Controller (Intel)
8086 3063 D925XCVLK mainboard
8086 3439 Marvell 88E8050 Gigabit Ethernet Controller (Intel)
4362 88E8053 PCI-E Gigabit Ethernet Controller
103c
2a0d Marvell 88E8053 Gigabit Ethernet Controller (Asus)
1043 8142 Marvell 88E8053 Gigabit Ethernet controller PCIe (Asus)
109f 3197 Marvell 88E8053 Gigabit Ethernet Controller (Trigem)
10f7 8338 Marvell 88E8053 Gigabit Ethernet Controller (Panasonic)
10fd a430 Marvell 88E8053 Gigabit Ethernet Controller (SOYO)

1179 0001 Marvell 88E8053 Gigabit Ethernet Controller (Toshiba)
1179 ff00 Marvell 88E8053 Gigabit Ethernet Controller (Compal)
1179 ff10 Marvell 88E8053 Gigabit Ethernet Controller (Inventec)
11ab 5321 Marvell RDK-8053
1297 c240 Marvell 88E8053 Gigabit Ethernet Controller (Shuttle)
1297 c241 Marvell 88E8053 Gigabit Ethernet Controller (Shuttle)
1297 c242 Marvell 88E8053 Gigabit Ethernet Controller (Shuttle)
1297 c243 Marvell 88E8053 Gigabit Ethernet Controller (Shuttle)
1297 c244 Marvell 88E8053 Gigabit Ethernet Controller (Shuttle)
13d1 ac11 EGE5K - Giga Ethernet Expresscard
1458 e000 Marvell 88E8053 Gigabit Ethernet Controller
(Gigabyte)
1462 058c Marvell 88E8053 Gigabit Ethernet Controller (MSI)
14c0 0012 Marvell 88E8053 Gigabit Ethernet Controller (Compal)
1558 04a0 Marvell 88E8053 Gigabit Ethernet Controller (Clevo)
15bd 1003 Marvell 88E8053 Gigabit Ethernet Controller (DFI)
161f 203c Marvell 88E8053 Gigabit Ethernet Controller (Arima)
161f 203d Marvell 88E8053 Gigabit Ethernet Controller (Arima)
1695 9029 Marvell 88E8053 Gigabit Ethernet Controller (Epox)
17f2 2c08 Marvell 88E8053 Gigabit Ethernet Controller (Albatron)
17ff 0585 Marvell 88E8053 Gigabit Ethernet Controller (Quanta)
1849 8053 Marvell 88E8053 Gigabit Ethernet Controller (ASRock)
1854 000b Marvell 88E8053 Gigabit Ethernet Controller (LGE)
1854 000c Marvell 88E8053 Gigabit Ethernet Controller (LGE)
1854 0010 Marvell 88E8053 Gigabit Ethernet Controller (LGE)
1854 0013 Marvell 88E8053 Gigabit Ethernet Controller (LGE)
1854 0014 Marvell 88E8053 Gigabit Ethernet Controller (LGE)
1854 0015 Marvell
88E8053 Gigabit Ethernet Controller (LGE)
1854 001a Marvell 88E8053 Gigabit Ethernet Controller (LGE)
1854 001b Marvell 88E8053 Gigabit Ethernet Controller (LGE)
1854 001d Marvell 88E8053 Gigabit Ethernet Controller (LGE)
1854 001f Marvell 88E8053 Gigabit Ethernet Controller (LGE)
1854 0021 Marvell 88E8053 Gigabit Ethernet Controller (LGE)
1854 0022 Marvell 88E8053 Gigabit Ethernet Controller (LGE)
270f 2801 Marvell 88E8053 Gigabit Ethernet Controller (Chaintech)
a0a0 0506 Marvell 88E8053 Gigabit Ethernet Controller (Aopen)
4363 88E8055 PCI-E Gigabit Ethernet Controller
4364 88E8056 PCI-E Gigabit Ethernet Controller
4611 GT-64115 System Controller
4620 GT-64120/64120A/64121A System Controller
4801 GT-48001
5005 Belkin F5D5005 Gigabit Desktop Network PCI Card
5040 MV88SX5040 4-port SATA I PCI-X Controller
5041 MV88SX5041 4-port SATA I PCI-X Controller
5080 MV88SX5080 8-port SATA I PCI-X Controller
5081 MV88SX5081 8-port SATA I PCI-X Controller
6041

MV88SX6041 4-port SATA II PCI-X Controller
6081 MV88SX6081 8-port SATA II PCI-X Controller
6101 88SE6101 single-port PATA133 interface
6141 88SE614x SATA II PCI-E controller
6145 88SE6145 SATA II PCI-E controller
6450 64560 System Controller
6460 MV64360/64361/64362 System Controller
6480 MV64460/64461/64462 System Controller
1775 c200 C2K CompactPCI single board computer
6485 MV64460/64461/64462 System Controller, Revision B
f003 GT-64010 Primary Image Piranha Image Generator
11ac Canon Information Systems Research Aust.
11ad Lite-On Communications Inc
0002 LNE100TX
11ad 0002 LNE100TX
11ad 0003 LNE100TX
11ad f003 LNE100TX
11ad ffff LNE100TX
1385 f004 FA310TX
c115 LNE100TX [Linksys EtherFast 10/100]
11ad c001 LNE100TX [ver 2.0]
11ae Aztech System Ltd
11af Avid Technology Inc.
0001 Cinema
ee40 Digidesign Audiomedia III
11b0 V3 Semiconductor Inc.
0002 V300PSC
0292 V292PBC [Am29030/40 Bridge]
0960 V96xPBC
c960 V96DPC
11b1
Apricot Computers
11b2 Eastman Kodak
11b3 Barr Systems Inc.
11b4 Leitch Technology International
11b5 Radstone Technology Plc
11b6 United Video Corp
11b7 Motorola
11b8 XPoint Technologies, Inc
0001 Quad PeerMaster
11b9 Pathlight Technology Inc.
c0ed SSA Controller
11ba Videotron Corp
11bb Pyramid Technology
11bc Network Peripherals Inc
0001 NP-PCI
11bd Pinnacle Systems Inc.
002e PCTV 40i

0040 Royal TS Function 1
11bd 0044 PCTV 2000i Dual DVB-T Pro PCI Tuner 1
0041 RoyalTS Function 2
11bd 0044 PCTV 2000i Dual DVB-T Pro PCI Tuner 2
0042 Royal TS Function 3
11bd 0044 PCTV 2000i Dual DVB-T Pro PCI Common
bede AV/DV Studio Capture Card
11be International Microcircuits Inc
11bf Astrodesign, Inc.
11c0 Hewlett Packard
Nee Lucent Microelectronics
11c1 Agere Systems
0440 56k WinModem
1033 8015 LT WinModem 56k Data+Fax+Voice+Dsvd
1033 8047 LT WinModem 56k Data+Fax+Voice+Dsvd
1033 804f LT WinModem 56k Data+Fax+Voice+Dsvd
10cf 102c LB LT Modem
V.90 56k
10cf 104a BIBLO LT Modem 56k
10cf 105f LB2 LT Modem V.90 56k
1179 0001 Internal V.90 Modem
11c1 0440 LT WinModem 56k Data+Fax+Voice+Dsvd
122d 4101 MDP7800-U Modem
122d 4102 MDP7800SP-U Modem
13e0 0040 LT WinModem 56k Data+Fax+Voice+Dsvd
13e0 0440 LT WinModem 56k Data+Fax+Voice+Dsvd
13e0 0441 LT WinModem 56k Data+Fax+Voice+Dsvd
13e0 0450 LT WinModem 56k Data+Fax+Voice+Dsvd
13e0 f100 LT WinModem 56k Data+Fax+Voice+Dsvd
13e0 f101 LT WinModem 56k Data+Fax+Voice+Dsvd
144d 2101 LT56PV Modem
149f 0440 LT WinModem 56k Data+Fax+Voice+Dsvd
0441 56k WinModem
1033 804d LT WinModem 56k Data+Fax
1033 8065 LT WinModem 56k Data+Fax
1092 0440 Supra 56i
1179 0001 Internal V.90 Modem
11c1 0440 LT WinModem 56k Data+Fax
11c1 0441 LT WinModem 56k Data+Fax
122d 4100 MDP7800-U Modem
13e0 0040 LT WinModem 56k Data+Fax
13e0 0100 LT WinModem 56k Data+Fax
13e0 0410 LT WinModem 56k Data+Fax
13e0 0420 TelePath Internet 56k WinModem
13e0
0440 LT WinModem 56k Data+Fax
13e0 0443 LT WinModem 56k Data+Fax
13e0 f102 LT WinModem 56k Data+Fax

1416 9804 CommWave 56k Modem
141d 0440 LT WinModem 56k Data+Fax
144f 0441 Lucent 56k V.90 DF Modem
144f 0449 Lucent 56k V.90 DF Modem
144f 110d Lucent Win Modem
1468 0441 Presario 56k V.90 DF Modem
1668 0440 Lucent Win Modem
0442 56k WinModem
11c1 0440 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
11c1 0442 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
13e0 0412 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
13e0 0442 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
13fc 2471 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
144d 2104 LT56PT Modem
144f 1104 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
149f 0440 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
1668 0440 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
0443 LT WinModem
0444 LT WinModem
0445 LT WinModem
8086 2203 PRO/100+ MiniPCI (probably an Ambit U98.003.C.00
combo card)
8086 2204 PRO/100+ MiniPCI on Armada E500
0446 LT WinModem
0447 LT WinModem
0448 WinModem 56k
1014 0131 Lucent Win Modem
1033 8066 LT WinModem 56k Data+Fax+Voice+Dsvd
13e0 0030 56k Voice Modem
13e0 0040 LT WinModem 56k Data+Fax+Voice+Dsvd
Actiontech eth+modem card as used by Dell &c.
1668 2400 LT WinModem 56k (MiniPCI Ethernet+Modem)
0449 WinModem 56k
0e11 b14d 56k V.90 Modem
13e0 0020 LT WinModem 56k Data+Fax
13e0 0041 TelePath Internet 56k WinModem
1436 0440 Lucent Win Modem
144f 0449 Lucent 56k V.90 DFi Modem
1468 0410 IBM ThinkPad T23 (2647-4MG)
1468 0440 Lucent Win Modem
1468 0449 Presario 56k V.90 DFi Modem
044a F-1156IV WinModem (V90, 56KFlex)
10cf 1072 LB Global LT Modem
13e0 0012 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
13e0 0042 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
144f 1005 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
044b LT WinModem
044c LT WinModem

044d LT WinModem
044e
 LT WinModem
044f V90 WildWire Modem
0450 LT WinModem
 1033 80a8 Versa Note Vxi
 144f 4005 Magnia SG20
 1468 0450 Evo N600c
 4005 144f LifeBook C Series
0451 LT WinModem
0452 LT WinModem
0453 LT WinModem
0454 LT WinModem
0455 LT WinModem
0456 LT WinModem
0457 LT WinModem
0458 LT WinModem
0459 LT WinModem
045a LT WinModem
045c LT WinModem
0461 V90 WildWire Modem
0462 V90 WildWire Modem
0480 Venus Modem (V90, 56KFlex)
048c V.92 56K WinModem
InPorte Home Internal 56k Modem/fax/answering machine/SMS Features
048f V.92 56k WinModem
1040 HDA softmodem
2600 StarPro26XX family (SP2601, SP2603, SP2612) DSP
5801 USB
5802 USS-312 USB Controller
5803 USS-344S USB Controller
5811 FW323
 8086 524c D865PERL mainboard
 dead 0800 FireWire Host Bus Adapter
8110 T8110 H.100/H.110 TDM switch
 12d9 000c E1/T1 PMXc cPCI carrier card
ab10 WL60010 Wireless LAN MAC
ab11 WL60040 Multimode Wireles LAN MAC
 11c1 ab12 WaveLAN 11abg Cardbus card
(Model 1102)
 11c1 ab13 WaveLAN 11abg MiniPCI card (Model 0512)
 11c1 ab15 WaveLAN 11abg Cardbus card (Model 1106)
 11c1 ab16 WaveLAN 11abg MiniPCI card (Model 0516)
ab20 ORiNOCO PCI Adapter
ab21 Agere Wireless PCI Adapter
ab30 Hermes2 Mini-PCI WaveLAN a/b/g
 14cd 2012 Hermes2 Mini-PCI WaveLAN a/b/g
ed00 ET-131x PCI-E Ethernet Controller

ed01 ET-131x PCI-E Ethernet Controller
11c2 Sand Microelectronics
11c3 NEC Corporation
11c4 Document Technologies, Inc
11c5 Shiva Corporation
11c6 Dainippon Screen Mfg. Co. Ltd
11c7 D.C.M. Data Systems
11c8 Dolphin Interconnect Solutions AS
0658 PSB32 SCI-Adapter D31x
d665 PSB64 SCI-Adapter D32x
d667 PSB66 SCI-Adapter D33x
11c9 Magma
0010 16-line serial port w/- DMA
0011 4-line serial port w/- DMA
11ca LSI Systems, Inc
11cb Specialix Research Ltd.
2000 PCI_9050
11cb 0200 SX
11cb b008 I/O8+
4000 SUPI_1
8000 T225
11cc Michels & Kleberhoff Computer GmbH
11cd HAL Computer Systems, Inc.
11ce Netaccess
11cf
Pioneer Electronic Corporation
11d0 Lockheed Martin Federal Systems-Manassas
11d1 Auravision
01f7 VxP524
11d2 Intercom Inc.
11d3 Trancell Systems Inc
11d4 Analog Devices
0078 AD1986HD sound chip
1535 Blackfin BF535 processor
1805 SM56 PCI modem
1889 AD1889 sound chip
1981 AD1981HD sound chip
1983 AD1983HD sound chip
1986 AD1986A sound chip
11d4 1986 Lenovo N100 B9G
198b AD1988B Sound Chip
5340 AD1881 sound chip
11d5 Ikon Corporation
0115 10115
0117 10117
11d6 Tekelec Telecom
11d7 Trenton Technology, Inc.
11d8 Image Technologies Development

11d9 TEC Corporation
11da Novell
11db Sega Enterprises Ltd
11dc Questra Corporation
11dd Crosfield Electronics Limited
11de Zoran Corporation
 6057 ZR36057PQC Video cutting chipset
  1031 7efe DC10 Plus
  1031 fc00 MiroVIDEO DC50, Motion JPEG Capture/CODEC Board
  12f8 8a02 Tekram Video Kit
  13ca 4231 JPEG/TV Card
 6120 ZR36120
  1328 f001 Cinemaster C DVD Decoder
  13c2 0000 MediaFocus Satellite
 TV Card
  1de1 9fff Video Kit C210
11df New Wave PDG
11e0 Cray Communications A/S
11e1 GEC Plessey Semi Inc.
11e2 Samsung Information Systems America
11e3 Quicklogic Corporation
 0001 COM-ON-AIR Dosch&Amand DECT
 5030 PC Watchdog
11e4 Second Wave Inc
11e5 IIX Consulting
11e6 Mitsui-Zosen System Research
11e7 Toshiba America, Elec. Company
11e8 Digital Processing Systems Inc.
11e9 Highwater Designs Ltd.
11ea Elsag Bailey
11eb Formation Inc.
11ec Coreco Inc
11ed Mediamatics
11ee Dome Imaging Systems Inc
11ef Nicolet Technologies B.V.
11f0 Compu-Shack
 4231 FDDI
 4232 FASTline UTP Quattro
 4233 FASTline FO
 4234 FASTline UTP
 4235 FASTline-II UTP
 4236 FASTline-II FO
 4731 GIGAline
11f1 Symbios Logic Inc
11f2 Picture Tel Japan K.K.
11f3 Keithley Metrabyte
11f4 Kinetic Systems Corporation
 2915 CAMAC controller

11f5 Computing Devices International
11f6 Compex
0112 ENet100VG4
0113 FreedomLine 100
1401 ReadyLink 2000
2011 RL100-ATX 10/100
11f6 2011
RL100-ATX
2201 ReadyLink 100TX (Winbond W89C840)
11f6 2011 ReadyLink 100TX
9881 RL100TX Fast Ethernet
11f7 Scientific Atlanta
11f8 PMC-Sierra Inc.
7375 PM7375 [LASAR-155 ATM SAR]
11f9 I-Cube Inc
11fa Kasan Electronics Company, Ltd.
11fb Datel Inc
11fc Silicon Magic
11fd High Street Consultants
11fe Comtrol Corporation
0001 RocketPort 32 port w/external I/F
0002 RocketPort 8 port w/external I/F
0003 RocketPort 16 port w/external I/F
0004 RocketPort 4 port w/quad cable
0005 RocketPort 8 port w/octa cable
0006 RocketPort 8 port w/RJ11 connectors
0007 RocketPort 4 port w/RJ11 connectors
0008 RocketPort 8 port w/ DB78 SNI (Siemens) connector
0009 RocketPort 16 port w/ DB78 SNI (Siemens) connector
000a RocketPort Plus 4 port
000b RocketPort Plus 8 port
000c RocketModem 6 port
000d RocketModem 4-port
000e RocketPort Plus 2 port RS232
000f RocketPort Plus 2 port RS422
0801 RocketPort UPCI 32 port w/external I/F
0802 RocketPort UPCI 8 port
w/external I/F
0803 RocketPort UPCI 16 port w/external I/F
0805 RocketPort UPCI 8 port w/octa cable
080c RocketModem III 8 port
080d RocketModem III 4 port
0812 RocketPort UPCI Plus 8 port RS422
0903 RocketPort Compact PCI 16 port w/external I/F
8015 RocketPort 4-port UART 16954
11ff Scion Corporation
0003 AG-5
1200 CSS Corporation

1201 Vista Controls Corp
1202 Network General Corp.
4300 Gigabit Ethernet Adapter
1202 9841 SK-9841 LX
1202 9842 SK-9841 LX dual link
1202 9843 SK-9843 SX
1202 9844 SK-9843 SX dual link
1203 Bayer Corporation, Agfa Division
1204 Lattice Semiconductor Corporation
1205 Array Corporation
1206 Amdahl Corporation
1208 Parsytec GmbH
4853 HS-Link Device
1209 SCI Systems Inc
120a Synaptel
120b Adaptive Solutions
120c Technical Corp.
120d Compression Labs, Inc.
120e Cyclades Corporation
0100 Cyclom-Y below first megabyte
0101 Cyclom-Y above first megabyte
0102 Cyclom-4Y below first megabyte
0103 Cyclom-4Y above
first megabyte
0104 Cyclom-8Y below first megabyte
0105 Cyclom-8Y above first megabyte
0200 Cyclades-Z below first megabyte
0201 Cyclades-Z above first megabyte
0300 PC300/RSV or /X21 (2 ports)
0301 PC300/RSV or /X21 (1 port)
0310 PC300/TE (2 ports)
0311 PC300/TE (1 port)
0320 PC300/TE-M (2 ports)
0321 PC300/TE-M (1 port)
0400 PC400
120f Essential Communications
0001 Roadrunner serial HIPPI
1210 Hyperparallel Technologies
1211 Braintech Inc
1212 Kingston Technology Corp.
1213 Applied Intelligent Systems, Inc.
1214 Performance Technologies, Inc.
1215 Interware Co., Ltd
1216 Purup Prepress A/S
1217 O2 Micro, Inc.
00f7 Firewire (IEEE 1394)
6729 OZ6729
673a OZ6730

6832 OZ6832/6833 CardBus Controller
6836 OZ6836/6860 CardBus Controller
6872 OZ6812 CardBus Controller
6925 OZ6922 CardBus Controller
6933 OZ6933/711E1 CardBus/SmartCardBus Controller
 1025 1016 Travelmate 612 TX
6972 OZ601/6912/711E0 CardBus/SmartCardBus Controller
 1014 020c
 ThinkPad R30
 1179 0001 Magnia Z310
7110 OZ711Mx 4-in-1 MemoryCardBus Accelerator
 103c 088c NC8000 laptop
 103c 0890 NC6000 laptop
 1734 106c Amilo A1645
7112 OZ711EC1/M1 SmartCardBus/MemoryCardBus Controller
7113 OZ711EC1 SmartCardBus Controller
7114 OZ711M1/MC1 4-in-1 MemoryCardBus Controller
7120 Integrated MMC/SD Controller
7130 Integrated MS/xD Controller
7134 OZ711MP1/MS1 MemoryCardBus Controller
7135 Cardbus bridge
71e2 OZ711E2 SmartCardBus Controller
7212 OZ711M2 4-in-1 MemoryCardBus Controller
7213 OZ6933E CardBus Controller
7223 OZ711M3/MC3 4-in-1 MemoryCardBus Controller
 103c 088c NC8000 laptop
 103c 0890 NC6000 laptop
 10cf 11c4 Lifebook P5020D Laptop
7233 OZ711MP3/MS3 4-in-1 MemoryCardBus Controller
1218 Hybricon Corp.
1219 First Virtual Corporation
121a 3Dfx Interactive, Inc.
0001 Voodoo
0002 Voodoo 2
0003 Voodoo Banshee
 1092 0003 Monster Fusion
 1092 4000 Monster Fusion
 1092 4002 Monster Fusion
 1092 4801 Monster
Fusion AGP
 1092 4803 Monster Fusion AGP
 1092 8030 Monster Fusion
 1092 8035 Monster Fusion AGP
 10b0 0001 Dragon 4000
 1102 1018 3D Blaster Banshee VE
 121a 0001 Voodoo Banshee AGP
 121a 0003 Voodoo Banshee AGP SGRAM
 121a 0004 Voodoo Banshee

139c 0016 Raven
139c 0017 Raven
14af 0002 Maxi Gamer Phoenix
0004 Voodoo Banshee [Velocity 100]
0005 Voodoo 3
121a 0004 Voodoo3 AGP
121a 0030 Voodoo3 AGP
121a 0031 Voodoo3 AGP
121a 0034 Voodoo3 AGP
121a 0036 Voodoo3 2000 PCI
121a 0037 Voodoo3 AGP
121a 0038 Voodoo3 AGP
121a 003a Voodoo3 AGP
121a 0044 Voodoo3
121a 004b Velocity 100
121a 004c Velocity 200
121a 004d Voodoo3 AGP
121a 004e Voodoo3 AGP
121a 0051 Voodoo3 AGP
121a 0052 Voodoo3 AGP
121a 0057 Voodoo3 3000 PCI
121a 0060 Voodoo3 3500 TV (NTSC)
121a 0061 Voodoo3 3500 TV (PAL)
121a 0062 Voodoo3 3500 TV (SECAM)
0009 Voodoo 4 / Voodoo 5
121a 0003 Voodoo5 PCI 5500
121a 0009 Voodoo5 AGP 5500/6000
0057
Voodoo 3/3000 [Avenger]
121b Advanced Telecommunications Modules
121c Nippon Texaco., Ltd
121d Lippert Automationstechnik GmbH
121e CSPI
0201 Myrinet 2000 Scalable Cluster Interconnect
121f Arcus Technology, Inc.
1220 Ariel Corporation
1220 AMCC 5933 TMS320C80 DSP/Imaging board
1221 Contec Co., Ltd
1222 Ancor Communications, Inc.
1223 Artesyn Communication Products
0003 PM/Link
0004 PM/T1
0005 PM/E1
0008 PM/SLS
0009 BajaSpan Resource Target
000a BajaSpan Section 0
000b BajaSpan Section 1
000c BajaSpan Section 2

000d BajaSpan Section 3
000e PM/PPC
1224 Interactive Images
1225 Power I/O, Inc.
1227 Tech-Source
0006 Raptor GFX 8P
0023 Raptor GFX [1100T]
1228 Norsk Elektro Optikk A/S
1229 Data Kinesis Inc.
122a Integrated Telecom
122b LG Industrial Systems Co., Ltd
122c Sican GmbH
122d Aztech System Ltd
1206 368DSP
1400 Trident PCI288-Q3DII (NX)
50dc 3328 Audio
 122d 0001 3328 Audio
80da 3328 Audio
 122d 0001 3328 Audio
122e Xyratex
122f
 Andrew Corporation
1230 Fishcamp Engineering
1231 Woodward McCoach, Inc.
1232 GPT Limited
1233 Bus-Tech, Inc.
Also Bochs uses this for virtual VGA...
1234 Technical Corp.
1235 Risq Modular Systems, Inc.
1236 Sigma Designs Corporation
0000 RealMagic64/GX
6401 REALmagic 64/GX (SD 6425)
1237 Alta Technology Corporation
1238 Adtran
1239 3DO Company
123a Visicom Laboratories, Inc.
123b Seeq Technology, Inc.
123c Century Systems, Inc.
123d Engineering Design Team, Inc.
0000 EasyConnect 8/32
0002 EasyConnect 8/64
0003 EasyIO
123e Simutech, Inc.
123f C-Cube Microsystems
00e4 MPEG
8120 E4?
 11bd 0006 DV500 E4
 11bd 000a DV500 E4

11bd 000f DV500 E4
1809 0016 Emuzed MAUI-III PCI PVR FM TV
8888 Cinemaster C 3.0 DVD Decoder
1002 0001 Cinemaster C 3.0 DVD Decoder
1002 0002 Cinemaster C 3.0 DVD Decoder
1328 0001 Cinemaster C 3.0 DVD Decoder
1240 Marathon Technologies Corp.
1241 DSC Communications
Formerly Jaycor Networks, Inc.
1242
JNI Corporation
1560 JNIC-1560 PCI-X Fibre Channel Controller
1242 6562 FCX2-6562 Dual Channel PCI-X Fibre Channel Adapter
1242 656a FCX-6562 PCI-X Fibre Channel Adapter
4643 FCI-1063 Fibre Channel Adapter
6562 FCX2-6562 Dual Channel PCI-X Fibre Channel Adapter
656a FCX-6562 PCI-X Fibre Channel Adapter
1243 Delphax
1244 AVM Audiovisuelles MKTG & Computer System GmbH
0700 B1 ISDN
0800 C4 ISDN
0a00 A1 ISDN [Fritz]
1244 0a00 FRITZ!Card ISDN Controller
0e00 Fritz!PCI v2.0 ISDN
1100 C2 ISDN
1200 T1 ISDN
2700 Fritz!Card DSL SL
2900 Fritz!Card DSL v2.0
1245 A.P.D., S.A.
1246 Dipix Technologies, Inc.
1247 Xylon Research, Inc.
1248 Central Data Corporation
1249 Samsung Electronics Co., Ltd.
124a AEG Electrocom GmbH
124b SBS/Greenspring Modular I/O
0040 PCI-40A or cPCI-200 Quad IndustryPack carrier
124b 9080 PCI9080 Bridge
124c Solitron Technologies, Inc.
124d Stallion Technologies, Inc.
0000 EasyConnection 8/32
0002 EasyConnection 8/64
0003
EasyIO
0004 EasyConnection/RA
124e Cylink
124f Infortrend Technology, Inc.
0041 IFT-2000 Series RAID Controller
1250 Hitachi Microcomputer System Ltd

1251 VLSI Solutions Oy
1253 Guzik Technical Enterprises
1254 Linear Systems Ltd.
1255 Optibase Ltd
 1110 MPEG Forge
 1210 MPEG Fusion
 2110 VideoPlex
 2120 VideoPlex CC
 2130 VideoQuest
1256 Perceptive Solutions, Inc.
 4201 PCI-2220I
 4401 PCI-2240I
 5201 PCI-2000
1257 Vertex Networks, Inc.
1258 Gilbarco, Inc.
1259 Allied Telesyn International
 2560 AT-2560 Fast Ethernet Adapter (i82557B)
 a117 RTL81xx Fast Ethernet
 a11e RTL81xx Fast Ethernet
 a120 21x4x DEC-Tulip compatible 10/100 Ethernet
125a ABB Power Systems
125b Asix Electronics Corporation
 1400 ALFA GFC2204 Fast Ethernet
  1186 1100 AX8814X Based PCI Fast Ethernet Adapter
125c Aurora Technologies, Inc.
 0101 Saturn 4520P
 0640 Aries 16000P
125d ESS Technology
 0000 ES336H Fax Modem (Early Model)
 1948 Solo?
 1968 ES1968 Maestro 2
  1028 0085
  ES1968 Maestro-2 PCI
  1033 8051 ES1968 Maestro-2 Audiodrive
 1969 ES1969 Solo-1 Audiodrive
  1014 0166 ES1969 SOLO-1 AudioDrive on IBM Aptiva Mainboard
  125d 8888 Solo-1 Audio Adapter
  153b 111b Terratec 128i PCI
 1978 ES1978 Maestro 2E
  0e11 b112 Armada M700/E500
  1033 803c ES1978 Maestro-2E Audiodrive
  1033 8058 ES1978 Maestro-2E Audiodrive
  1092 4000 Monster Sound MX400
  1179 0001 ES1978 Maestro-2E Audiodrive
 1988 ES1988 Allegro-1
  0e11 0098 Evo N600c
  1092 4100 Sonic Impact S100
  125d 1988 ESS Allegro-1 Audiodrive

1989 ESS Modem
125d 1989 ESS Modem
1998 ES1983S Maestro-3i PCI Audio Accelerator
1028 00b1 Latitude C600
1028 00e6 ES1983S Maestro-3i (Dell Inspiron 8100)
1999 ES1983S Maestro-3i PCI Modem Accelerator
199a ES1983S Maestro-3i PCI Audio Accelerator
199b ES1983S Maestro-3i PCI Modem Accelerator
2808 ES336H Fax Modem (Later Model)
2838 ES2838/2839 SuperLink Modem
2898 ES2898 Modem
125d 0424 ES56-PI Data Fax Modem
125d
0425 ES56T-PI Data Fax Modem
125d 0426 ES56V-PI Data Fax Modem
125d 0427 VW-PI Data Fax Modem
125d 0428 ES56ST-PI Data Fax Modem
125d 0429 ES56SV-PI Data Fax Modem
147a c001 ES56-PI Data Fax Modem
148d 1030 HCF WV-PI56 [ESS ES56-PI Data Fax Modem]
14fe 0428 ES56-PI Data Fax Modem
14fe 0429 ES56-PI Data Fax Modem
125e Specialvideo Engineering SRL
125f Concurrent Technologies, Inc.
1260 Intersil Corporation
3872 Prism 2.5 Wavelan chipset
1468 0202 LAN-Express IEEE 802.11b Wireless LAN
3873 Prism 2.5 Wavelan chipset
1186 3501 DWL-520 Wireless PCI Adapter
1186 3700 DWL-520 Wireless PCI Adapter, Rev E1
1385 4105 MA311 802.11b wireless adapter
1668 0414 HWP01170-01 802.11b PCI Wireless Adapter
16a5 1601 AIR.mate PC-400 PCI Wireless LAN Adapter
1737 3874 WMP11 Wireless 802.11b PCI Adapter
8086 2510 M3AWEB Wireless 802.11b MiniPCI Adapter
8086 2513 Wireless 802.11b MiniPCI Adapter
3886 ISL3886 [Prism Javelin/Prism Xbow]
17cf 0037
XG-901 and clones Wireless Adapter
3890 ISL3890 [Prism GT/Prism Duette]/ISL3886 [Prism Javelin/Prism Xbow]
10b8 2802 SMC2802W Wireless PCI Adapter
10b8 2835 SMC2835W Wireless Cardbus Adapter
10b8 a835 SMC2835W V2 Wireless Cardbus Adapter
1113 4203 WN4201B
1113 8201 T-Com T-Sinus 154pcicard Wireless PCI Adapter
1113 ee03 SMC2802W V2 Wireless PCI Adapter [ISL3886]
1113 ee08 SMC2835W V3 EU Wireless Cardbus Adapter
1186 3202 DWL-G650 A1 Wireless Adapter

1259 c104 CG-WLCB54GT Wireless Adapter
1260 0000 WG511 Wireless Adapter
1385 4800 WG511 Wireless Adapter
16a5 1605 ALLNET ALL0271 Wireless PCI Adapter
17cf 0014 XG-600 and clones Wireless Adapter
17cf 0020 XG-900 and clones Wireless Adapter
8130 HMP8130 NTSC/PAL Video Decoder
8131 HMP8131 NTSC/PAL Video Decoder
This is probably more likely a HW fault, but I am keeping it for now --mj
ffff ISL3886IK
1260 0000 Senao 3054MP+ (J) mini-PCI WLAN 802.11g adapter
1261 Matsushita-Kotobuki Electronics
Industries, Ltd.
1262 ES Computer Company, Ltd.
1263 Sonic Solutions
1264 Aval Nagasaki Corporation
1265 Casio Computer Co., Ltd.
1266 Microdyne Corporation
0001 NE10/100 Adapter (i82557B)
1910 NE2000Plus (RT8029) Ethernet Adapter
1266 1910 NE2000Plus Ethernet Adapter
1267 S. A. Telecommunications
5352 PCR2101
5a4b Telsat Turbo
1268 Tektronix
1269 Thomson-CSF/TTM
126a Lexmark International, Inc.
126b Adax, Inc.
126c Northern Telecom
1211 10/100BaseTX [RTL81xx]
126c 802.11b Wireless Ethernet Adapter
126d Splash Technology, Inc.
126e Sumitomo Metal Industries, Ltd.
126f Silicon Motion, Inc.
0501 SM501 VoyagerGX Rev. AA
0510 SM501 VoyagerGX Rev. B
0710 SM710 LynxEM
0712 SM712 LynxEM+
0720 SM720 Lynx3DM
0730 SM731 Cougar3DR
0810 SM810 LynxE
0811 SM811 LynxE
0820 SM820 Lynx3D
0910 SM910
1270 Olympus Optical Co., Ltd.
1271 GW Instruments
1272 Telematics International
1273 Hughes Network Systems

0002 DirecPC
1274 Ensoniq
1171 ES1373
[AudioPCI] (also Creative Labs CT5803)
1371 ES1371 [AudioPCI-97]
0e11 0024 AudioPCI on Motherboard Compaq Deskpro
0e11 b1a7 ES1371, ES1373 AudioPCI
1033 80ac ES1371, ES1373 AudioPCI
1042 1854 Tazer
107b 8054 Tabor2
1274 1371 Creative Sound Blaster AudioPCI64V, AudioPCI128
1274 8001 CT4751 board
1462 6470 ES1371, ES1373 AudioPCI On Motherboard MS-6147 1.1A
1462 6560 ES1371, ES1373 AudioPCI On Motherboard MS-6156 1.10
1462 6630 ES1371, ES1373 AudioPCI On Motherboard MS-6163BX 1.0A
1462 6631 ES1371, ES1373 AudioPCI On Motherboard MS-6163VIA 1.0A
1462 6632 ES1371, ES1373 AudioPCI On Motherboard MS-6163BX 2.0A
1462 6633 ES1371, ES1373 AudioPCI On Motherboard MS-6163VIA 2.0A
1462 6820 ES1371, ES1373 AudioPCI On Motherboard MS-6182 1.00
1462 6822 ES1371, ES1373 AudioPCI On Motherboard MS-6182 1.00A
1462 6830 ES1371, ES1373 AudioPCI On Motherboard MS-6183 1.00
1462 6880 ES1371, ES1373 AudioPCI On Motherboard MS-6188 1.00
1462 6900 ES1371,
ES1373 AudioPCI On Motherboard MS-6190 1.00
1462 6910 ES1371, ES1373 AudioPCI On Motherboard MS-6191
1462 6930 ES1371, ES1373 AudioPCI On Motherboard MS-6193
1462 6990 ES1371, ES1373 AudioPCI On Motherboard MS-6199BX 2.0A
1462 6991 ES1371, ES1373 AudioPCI On Motherboard MS-6199VIA 2.0A
14a4 2077 ES1371, ES1373 AudioPCI On Motherboard KR639
14a4 2105 ES1371, ES1373 AudioPCI On Motherboard MR800
14a4 2107 ES1371, ES1373 AudioPCI On Motherboard MR801
14a4 2172 ES1371, ES1373 AudioPCI On Motherboard DR739
1509 9902 ES1371, ES1373 AudioPCI On Motherboard KW11
1509 9903 ES1371, ES1373 AudioPCI On Motherboard KW31
1509 9904 ES1371, ES1373 AudioPCI On Motherboard KA11
1509 9905 ES1371, ES1373 AudioPCI On Motherboard KC13
152d 8801 ES1371, ES1373 AudioPCI On Motherboard CP810E
152d 8802 ES1371, ES1373 AudioPCI On Motherboard CP810
152d 8803 ES1371, ES1373 AudioPCI On Motherboard P3810E
152d 8804 ES1371, ES1373 AudioPCI On Motherboard P3810-S
152d
8805 ES1371, ES1373 AudioPCI On Motherboard P3820-S
270f 2001 ES1371, ES1373 AudioPCI On Motherboard 6CTR
270f 2200 ES1371, ES1373 AudioPCI On Motherboard 6WTX
270f 3000 ES1371, ES1373 AudioPCI On Motherboard 6WSV
270f 3100 ES1371, ES1373 AudioPCI On Motherboard 6WIV2
270f 3102 ES1371, ES1373 AudioPCI On Motherboard 6WIV
270f 7060 ES1371, ES1373 AudioPCI On Motherboard 6ASA2

8086 4249 ES1371, ES1373 AudioPCI On Motherboard BI440ZX
8086 424c ES1371, ES1373 AudioPCI On Motherboard BL440ZX
8086 425a ES1371, ES1373 AudioPCI On Motherboard BZ440ZX
8086 4341 ES1371, ES1373 AudioPCI On Motherboard Cayman
8086 4343 ES1371, ES1373 AudioPCI On Motherboard Cape Cod
8086 4541 D815EEA Motherboard
8086 4649 ES1371, ES1373 AudioPCI On Motherboard Fire Island
8086 464a ES1371, ES1373 AudioPCI On Motherboard FJ440ZX
8086 4d4f ES1371, ES1373 AudioPCI On Motherboard Montreal
8086 4f43 ES1371, ES1373 AudioPCI On Motherboard OC440LX
8086 5243 ES1371,
ES1373 AudioPCI On Motherboard RC440BX
8086 5352 ES1371, ES1373 AudioPCI On Motherboard SunRiver
8086 5643 ES1371, ES1373 AudioPCI On Motherboard Vancouver
8086 5753 ES1371, ES1373 AudioPCI On Motherboard WS440BX
5000 ES1370 [AudioPCI]
5880 5880 AudioPCI
1274 2000 Creative Sound Blaster AudioPCI128
1274 2003 Creative SoundBlaster AudioPCI 128
1274 5880 Creative Sound Blaster AudioPCI128
1274 8001 Sound Blaster 16PCI 4.1ch
1458 a000 5880 AudioPCI On Motherboard 6OXET
1462 6880 5880 AudioPCI On Motherboard MS-6188 1.00
270f 2001 5880 AudioPCI On Motherboard 6CTR
270f 2200 5880 AudioPCI On Motherboard 6WTX
270f 7040 5880 AudioPCI On Motherboard 6ATA4
1275 Network Appliance Corporation
1276 Switched Network Technologies, Inc.
1277 Comstream
1278 Transtech Parallel Systems Ltd.
0701 TPE3/TM3 PowerPC Node
0710 TPE5 PowerPC PCI board
1279 Transmeta Corporation
0060 TM8000 Northbridge
0061 TM8000 AGP bridge
0295 Northbridge
0395 LongRun
Northbridge
0396 SDRAM controller
0397 BIOS scratchpad
127a Rockwell International
1002 HCF 56k Data/Fax Modem
1092 094c SupraExpress 56i PRO [Diamond SUP2380]
122d 4002 HPG / MDP3858-U
122d 4005 MDP3858-E
122d 4007 MDP3858-A/-NZ
122d 4012 MDP3858-SA
122d 4017 MDP3858-W

122d 4018 MDP3858-W
127a 1002 Rockwell 56K D/F HCF Modem
1003 HCF 56k Data/Fax Modem
0e11 b0bc 229-DF Zephyr
0e11 b114 229-DF Cheetah
1033 802b 229-DF
13df 1003 PCI56RX Modem
13e0 0117 IBM
13e0 0147 IBM F-1156IV+/R3 Spain V.90 Modem
13e0 0197 IBM
13e0 01c7 IBM F-1156IV+/R3 WW V.90 Modem
13e0 01f7 IBM
1436 1003 IBM
1436 1103 IBM 5614PM3G V.90 Modem
1436 1602 Compaq 229-DF Ducati
1004 HCF 56k Data/Fax/Voice Modem
1048 1500 MicroLink 56k Modem
10cf 1059 Fujitsu 229-DFRT
1005 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
1005 127a AOpen FM56-P
1033 8029 229-DFSV
1033 8054 Modem
10cf 103c Fujitsu
10cf 1055 Fujitsu 229-DFSV
10cf
1056 Fujitsu 229-DFSV
122d 4003 MDP3858SP-U
122d 4006 Packard Bell MDP3858V-E
122d 4008 MDP3858SP-A/SP-NZ
122d 4009 MDP3858SP-E
122d 4010 MDP3858V-U
122d 4011 MDP3858SP-SA
122d 4013 MDP3858V-A/V-NZ
122d 4015 MDP3858SP-W
122d 4016 MDP3858V-W
122d 4019 MDP3858V-SA
13df 1005 PCI56RVP Modem
13e0 0187 IBM
13e0 01a7 IBM
13e0 01b7 IBM DF-1156IV+/R3 Spain V.90 Modem
13e0 01d7 IBM DF-1156IV+/R3 WW V.90 Modem
1436 1005 IBM
1436 1105 IBM
1437 1105 IBM 5614PS3G V.90 Modem
1022 HCF 56k Modem
1436 1303 M3-5614PM3G V.90 Modem
1023 HCF 56k Data/Fax Modem
122d 4020 Packard Bell MDP3858-WE

122d 4023 MDP3858-UE
13e0 0247 IBM F-1156IV+/R6 Spain V.90 Modem
13e0 0297 IBM
13e0 02c7 IBM F-1156IV+/R6 WW V.90 Modem
1436 1203 IBM
1436 1303 IBM
1024 HCF 56k Data/Fax/Voice Modem
1025 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
10cf 106a Fujitsu 235-DFSV
122d 4021 Packard Bell MDP3858V-WE
122d 4022 MDP3858SP-WE
122d
4024 MDP3858V-UE
122d 4025 MDP3858SP-UE
1026 HCF 56k PCI Speakerphone Modem
1032 HCF 56k Modem
1033 HCF 56k Modem
1034 HCF 56k Modem
1035 HCF 56k PCI Speakerphone Modem
1036 HCF 56k Modem
1085 HCF 56k Volcano PCI Modem
2005 HCF 56k Data/Fax Modem
104d 8044 229-DFSV
104d 8045 229-DFSV
104d 8055 PBE/Aztech 235W-DFSV
104d 8056 235-DFSV
104d 805a Modem
104d 805f Modem
104d 8074 Modem
2013 HSF 56k Data/Fax Modem
1179 0001 Modem
1179 ff00 Modem
2014 HSF 56k Data/Fax/Voice Modem
10cf 1057 Fujitsu Citicorp III
122d 4050 MSP3880-U
122d 4055 MSP3880-W
2015 HSF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
10cf 1063 Fujitsu
10cf 1064 Fujitsu
1468 2015 Fujitsu
2016 HSF 56k Data/Fax/Voice/Spkp Modem
122d 4051 MSP3880V-W
122d 4052 MSP3880SP-W
122d 4054 MSP3880V-U
122d 4056 MSP3880SP-U
122d 4057 MSP3880SP-A
4311 Riptide HSF 56k PCI Modem
127a 4311 Ring Modular? Riptide HSF RT HP Dom

13e0 0210 HP-GVC
4320
Riptide PCI Audio Controller
1235 4320 Riptide PCI Audio Controller
4321 Riptide HCF 56k PCI Modem
1235 4321 Hewlett Packard DF
1235 4324 Hewlett Packard DF
13e0 0210 Hewlett Packard DF
144d 2321 Riptide
4322 Riptide PCI Game Controller
1235 4322 Riptide PCI Game Controller
8234 RapidFire 616X ATM155 Adapter
108d 0022 RapidFire 616X ATM155 Adapter
108d 0027 RapidFire 616X ATM155 Adapter
127b Pixera Corporation
127c Crosspoint Solutions, Inc.
127d Vela Research
127e Winnov, L.P.
127f Fujifilm
1280 Photoscript Group Ltd.
1281 Yokogawa Electric Corporation
1282 Davicom Semiconductor, Inc.
9009 Ethernet 100/10 MBit
9100 21x4x DEC-Tulip compatible 10/100 Ethernet
9102 21x4x DEC-Tulip compatible 10/100 Ethernet
9132 Ethernet 100/10 MBit
1283 Integrated Technology Express, Inc.
673a IT8330G
8152 IT8152F/G Advanced RISC-to-PCI Companion Chip
8211 ITE 8211F Single Channel UDMA 133
1043 8138 P5GD1-VW Mainboard
PCI version seems to be IT8212,
embedded seems to be ITE8212
8212 IT/ITE8212 Dual channel ATA RAID controller
1283 0001 IT/ITE8212 Dual channel ATA RAID controller
8330 IT8330G
8872 IT8874F PCI Dual Serial Port Controller
8888 IT8888F PCI to ISA Bridge with SMB
8889 IT8889F PCI to ISA Bridge
e886 IT8330G
1284 Sahara Networks, Inc.
1285 Platform Technologies, Inc.
0100 AGOGO sound chip (aka ESS Maestro 1)
1286 Mazet GmbH
1287 M-Pact, Inc.
001e LS220D DVD Decoder
001f LS220C DVD Decoder
1288 Timestep Corporation

1289 AVC Technology, Inc.
128a Asante Technologies, Inc.
128b Transwitch Corporation
128c Retix Corporation
128d G2 Networks, Inc.
0021 ATM155 Adapter
128e Hoontech Corporation/Samho Multi Tech Ltd.
0008 ST128 WSS/SB
0009 ST128 SAM9407
000a ST128 Game Port
000b ST128 MPU Port
000c ST128 Ctrl Port
128f Tateno Dennou, Inc.
1290 Sord Computer Corporation
1291 NCS Computer Italia
1292 Tritech Microelectronics Inc
fc02 Pyramid3D TR25202
1293 Media Reality Technology
1294
Rhetorex, Inc.
1295 Imagenation Corporation
1296 Kofax Image Products
1297 Holco Enterprise Co, Ltd/Shuttle Computer
1298 Spellcaster Telecommunications Inc.
1299 Knowledge Technology Lab.
129a VMetro, inc.
0615 PBT-615 PCI-X Bus Analyzer
129b Image Access
129c Jaycor
129d Compcore Multimedia, Inc.
129e Victor Company of Japan, Ltd.
129f OEC Medical Systems, Inc.
12a0 Allen-Bradley Company
12a1 Simpact Associates, Inc.
12a2 Newgen Systems Corporation
12a3 Lucent Technologies
8105 T8105 H100 Digital Switch
12a4 NTT Electronics Technology Company
12a5 Vision Dynamics Ltd.
12a6 Scalable Networks, Inc.
12a7 AMO GmbH
12a8 News Datacom
12a9 Xiotech Corporation
12aa SDL Communications, Inc.
12ab Yuan Yuan Enterprise Co., Ltd.
0000 MPG160/Kuroutoshikou ITVC15-STVLP
0002 AU8830 [Vortex2] Based Sound Card With A3D Support
2300 Club-3D Zap TV2100

3000 MPG-200C PCI DVD Decoder Card
fff3 MPG600/Kuroutoshikou ITVC16-STVLP
ffff MPG600/Kuroutoshikou ITVC16-STVLP
12ac
Measurex Corporation
12ad Multidata GmbH
12ae Alteon Networks Inc.
0001 AceNIC Gigabit Ethernet
1014 0104 Gigabit Ethernet-SX PCI Adapter
12ae 0001 Gigabit Ethernet-SX (Universal)
1410 0104 Gigabit Ethernet-SX PCI Adapter
0002 AceNIC Gigabit Ethernet (Copper)
10a9 8002 Acenic Gigabit Ethernet
12ae 0002 Gigabit Ethernet-T (3C986-T)
00fa Farallon PN9100-T Gigabit Ethernet
12af TDK USA Corp
12b0 Jorge Scientific Corp
12b1 GammaLink
12b2 General Signal Networks
12b3 Inter-Face Co Ltd
12b4 FutureTel Inc
12b5 Granite Systems Inc.
12b6 Natural Microsystems
12b7 Cognex Modular Vision Systems Div. - Acumen Inc.
12b8 Korg
Nee US Robotics
12b9 3Com Corp, Modem Division
1006 WinModem
12b9 005c USR 56k Internal Voice WinModem (Model 3472)
12b9 005e USR 56k Internal WinModem (Models 662975)
12b9 0062 USR 56k Internal Voice WinModem (Model 662978)
12b9 0068 USR 56k Internal Voice WinModem (Model 5690)
12b9 007a USR 56k Internal Voice
WinModem (Model 662974)
12b9 007f USR 56k Internal WinModem (Models 5698, 5699)
12b9 0080 USR 56k Internal WinModem (Models 2975, 3528)
12b9 0081 USR 56k Internal Voice WinModem (Models 2974, 3529)
12b9 0091 USR 56k Internal Voice WinModem (Model 2978)
1007 USR 56k Internal WinModem
12b9 00a3 USR 56k Internal WinModem (Model 3595)
12b9 00c4 U.S. Robotics 56K Voice Win Int (2884a)
1008 56K FaxModem Model 5610
12b9 00a2 USR 56k Internal FAX Modem (Model 2977)
12b9 00aa USR 56k Internal Voice Modem (Model 2976)
12b9 00ab USR 56k Internal Voice Modem (Model 5609)
12b9 00ac USR 56k Internal Voice Modem (Model 3298)
12b9 00ad USR 56k Internal FAX Modem (Model 5610)
12ba BittWare, Inc.

12bb Nippon Unisoft Corporation
12bc Array Microsystems
12bd Computerm Corp.
12be Anchor Chips Inc.
3041 AN3041Q CO-MEM
3042 AN3042Q CO-MEM Lite
12be 3042 Anchor Chips Lite Evaluation Board
12bf Fujifilm Microdevices
12c0 Infimed
12c1 GMM Research Corp
12c2
Mentec Limited
12c3 Holtek Microelectronics Inc
0058 PCI NE2K Ethernet
5598 PCI NE2K Ethernet
12c4 Connect Tech Inc
0001 Blue HEAT/PCI 8 (RS232/CL/RJ11)
0002 Blue HEAT/PCI 4 (RS232)
0003 Blue HEAT/PCI 2 (RS232)
0004 Blue HEAT/PCI 8 (UNIV, RS485)
0005 Blue HEAT/PCI 4+4/6+2 (UNIV, RS232/485)
0006 Blue HEAT/PCI 4 (OPTO, RS485)
0007 Blue HEAT/PCI 2+2 (RS232/485)
0008 Blue HEAT/PCI 2 (OPTO, Tx, RS485)
0009 Blue HEAT/PCI 2+6 (RS232/485)
000a Blue HEAT/PCI 8 (Tx, RS485)
000b Blue HEAT/PCI 4 (Tx, RS485)
000c Blue HEAT/PCI 2 (20 MHz, RS485)
000d Blue HEAT/PCI 2 PTM
0100 NT960/PCI
0201 cPCI Titan - 2 Port
0202 cPCI Titan - 4 Port
0300 CTI PCI UART 2 (RS232)
0301 CTI PCI UART 4 (RS232)
0302 CTI PCI UART 8 (RS232)
0310 CTI PCI UART 1+1 (RS232/485)
0311 CTI PCI UART 2+2 (RS232/485)
0312 CTI PCI UART 4+4 (RS232/485)
0320 CTI PCI UART 2
0321 CTI PCI UART 4
0322 CTI PCI UART 8
0330 CTI PCI UART 2 (RS485)
0331 CTI PCI UART 4 (RS485)
0332 CTI
PCI UART 8 (RS485)
12c5 Picture Elements Incorporated
007e Imaging/Scanning Subsystem Engine
007f Imaging/Scanning Subsystem Engine

0081 PCIVST [Grayscale Thresholding Engine]
0085 Video Simulator/Sender
0086 THR2 Multi-scale Thresholder
12c6 Mitani Corporation
12c7 Dialogic Corp
12c8 G Force Co, Ltd
12c9 Gigi Operations
12ca Integrated Computing Engines
12cb Antex Electronics Corporation
12cc Pluto Technologies International
12cd Aims Lab
12ce Netspeed Inc.
12cf Prophet Systems, Inc.
12d0 GDE Systems, Inc.
12d1 PSITech
12d2 NVidia / SGS Thomson (Joint Venture)
0008 NV1
0009 DAC64
0018 Riva128
1048 0c10 VICTORY Erazor
107b 8030 STB Velocity 128
1092 0350 Viper V330
1092 1092 Viper V330
10b4 1b1b STB Velocity 128
10b4 1b1d STB Velocity 128
10b4 1b1e STB Velocity 128, PAL TV-Out
10b4 1b20 STB Velocity 128 Sapphire
10b4 1b21 STB Velocity 128
10b4 1b22 STB Velocity 128 AGP, NTSC TV-Out
10b4 1b23 STB Velocity 128 AGP, PAL TV-Out
10b4
1b27 STB Velocity 128 DVD
10b4 1b88 MVP Pro 128
10b4 222a STB Velocity 128 AGP
10b4 2230 STB Velocity 128
10b4 2232 STB Velocity 128
10b4 2235 STB Velocity 128 AGP
2a15 54a3 3DVision-SAGP / 3DexPlorer 3000
0019 Riva128ZX
0020 TNT
0028 TNT2
0029 UTNT2
002c VTNT2
00a0 ITNT2
12d3 Vingmed Sound A/S
12d4 Ulticom (Formerly DGM&S)
0200 T1 Card
12d5 Equator Technologies Inc

0003 BSP16
1000 BSP15
12d6 Analogic Corp
12d7 Biotronic SRL
12d8 Pericom Semiconductor
01a7 PI7C21P100 PCI to PCI Bridge
8150 PCI to PCI Bridge
12d9 Aculab PLC
0002 PCI Prosody
0004 cPCI Prosody
0005 Aculab E1/T1 PCI card
1078 Prosody X class e1000 device
12d9 000d Prosody X PCI
12da True Time Inc.
12db Annapolis Micro Systems, Inc
12dc Symicron Computer Communication Ltd.
12dd Management Graphics
12de Rainbow Technologies
0200 CryptoSwift CS200
12df SBS Technologies Inc
12e0 Chase Research
0010 ST16C654 Quad UART
0020 ST16C654 Quad UART
0030
ST16C654 Quad UART
12e1 Nintendo Co, Ltd
12e2 Datum Inc. Bancomm-Timing Division
12e3 Imation Corp - Medical Imaging Systems
12e4 Brooktrout Technology Inc
12e5 Apex Semiconductor Inc
12e6 Cirel Systems
12e7 Sunsgroup Corporation
12e8 Crisc Corp
12e9 GE Spacenet
12ea Zuken
12eb Aureal Semiconductor
0001 Vortex 1
104d 8036 AU8820 Vortex Digital Audio Processor
1092 2000 Sonic Impact A3D
1092 2100 Sonic Impact A3D
1092 2110 Sonic Impact A3D
1092 2200 Sonic Impact A3D
122d 1002 AU8820 Vortex Digital Audio Processor
12eb 0001 AU8820 Vortex Digital Audio Processor
5053 3355 Montego
0002 Vortex 2
104d 8049 AU8830 Vortex 3D Digital Audio Processor
104d 807b AU8830 Vortex 3D Digital Audio Processor

1092 3000 Monster Sound II
1092 3001 Monster Sound II
1092 3002 Monster Sound II
1092 3003 Monster Sound II
1092 3004 Monster Sound II
12eb 0002 AU8830 Vortex 3D Digital Audio Processor
12eb 0088 AU8830 Vortex 3D Digital Audio Processor
144d
3510 AU8830 Vortex 3D Digital Audio Processor
5053 3356 Montego II
0003 AU8810 Vortex Digital Audio Processor
104d 8049 AU8810 Vortex Digital Audio Processor
104d 8077 AU8810 Vortex Digital Audio Processor
109f 1000 AU8810 Vortex Digital Audio Processor
12eb 0003 AU8810 Vortex Digital Audio Processor
1462 6780 AU8810 Vortex Digital Audio Processor
14a4 2073 AU8810 Vortex Digital Audio Processor
14a4 2091 AU8810 Vortex Digital Audio Processor
14a4 2104 AU8810 Vortex Digital Audio Processor
14a4 2106 AU8810 Vortex Digital Audio Processor
8803 Vortex 56k Software Modem
12eb 8803 Vortex 56k Software Modem
12ec 3A International, Inc.
12ed Optivision Inc.
12ee Orange Micro
12ef Vienna Systems
12f0 Pentek
12f1 Sorenson Vision Inc
12f2 Gammagraphx, Inc.
12f3 Radstone Technology
12f4 Megatel
12f5 Forks
12f6 Dawson France
12f7 Cognex
12f8 Electronic Design GmbH
0002 VideoMaker
12f9 Four Fold Ltd
12fb Spectrum Signal Processing
0001
PMC-MAI
00f5 F5 Dakar
02ad PMC-2MAI
2adc ePMC-2ADC
3100 PRO-3100
3500 PRO-3500
4d4f Modena
8120 ePMC-8120
da62 Daytona C6201 PCI (Hurricane)

db62 Ingliston XBIF
dc62 Ingliston PLX9054
dd62 Ingliston JTAG/ISP
eddc ePMC-MSDDC
fa01 ePMC-FPGA
12fc Capital Equipment Corp
12fd I2S
12fe ESD Electronic System Design GmbH
12ff Lexicon
1300 Harman International Industries Inc
1302 Computer Sciences Corp
1303 Innovative Integration
1304 Juniper Networks
1305 Netphone, Inc
1306 Duet Technologies
Nee ComputerBoards
1307 Measurement Computing
0001 PCI-DAS1602/16
000b PCI-DIO48H
000c PCI-PDISO8
000d PCI-PDISO16
000f PCI-DAS1200
0010 PCI-DAS1602/12
0014 PCI-DIO24H
0015 PCI-DIO24H/CTR3
0016 PCI-DIO48H/CTR15
0017 PCI-DIO96H
0018 PCI-CTR05
0019 PCI-DAS1200/JR
001a PCI-DAS1001
001b PCI-DAS1002
001c PCI-DAS1602JR/16
001d PCI-DAS6402/16
001e PCI-DAS6402/12
001f PCI-DAS16/M1
0020 PCI-DDA02/12
0021 PCI-DDA04/12
0022 PCI-DDA08/12
0023
 PCI-DDA02/16
0024 PCI-DDA04/16
0025 PCI-DDA08/16
0026 PCI-DAC04/12-HS
0027 PCI-DAC04/16-HS
0028 PCI-DIO24
0029 PCI-DAS08
002c PCI-INT32
0033 PCI-DUAL-AC5

0034 PCI-DAS-TC
0035 PCI-DAS64/M1/16
0036 PCI-DAS64/M2/16
0037 PCI-DAS64/M3/16
004c PCI-DAS1000
004d PCI-QUAD04
0052 PCI-DAS4020/12
0054 PCI-DIO96
005e PCI-DAS6025
1308 Jato Technologies Inc.
0001 NetCelerator Adapter
 1308 0001 NetCelerator Adapter
1309 AB Semiconductor Ltd
130a Mitsubishi Electric Microcomputer
130b Colorgraphic Communications Corp
130c Ambex Technologies, Inc
130d Accelerix Inc
130e Yamatake-Honeywell Co. Ltd
130f Advanet Inc
1310 Gespac
1311 Videoserver, Inc
1312 Acuity Imaging, Inc
1313 Yaskawa Electric Co.
1316 Teradyne Inc
1317 ADMtek
0981 21x4x DEC-Tulip compatible 10/100 Ethernet
0985 NC100 Network Everywhere Fast Ethernet 10/100
 1734 100c Scenic N300 ADMtek AN983 10/100 Mbps PCI Adapter
1985 21x4x DEC-Tulip compatible 10/100 Ethernet
2850
 HSP MicroModem 56
5120 ADM5120 OpenGate System-on-Chip
8201 ADM8211 802.11b Wireless Interface
 10b8 2635 SMC2635W 802.11b (11Mbps) wireless lan pcmcia (cardbus) card
 1317 8201 SMC2635W 802.11b (11mbps) wireless lan pcmcia (cardbus) card
8211 ADM8211 802.11b Wireless Interface
9511 21x4x DEC-Tulip compatible 10/100 Ethernet
1318 Packet Engines Inc.
0911 GNIC-II PCI Gigabit Ethernet [Hamachi]
1319 Fortemedia, Inc
0801 Xwave QS3000A [FM801]
 1319 1319 FM801 PCI Audio
0802 Xwave QS3000A [FM801 game port]
 1319 1319 FM801 PCI Joystick
1000 FM801 PCI Audio
1001 FM801 PCI Joystick
131a Finisar Corp.
131c Nippon Electro-Sensory Devices Corp

131d Sysmic, Inc.
131e Xinex Networks Inc
131f Siig Inc
1000 CyberSerial (1-port) 16550
1001 CyberSerial (1-port) 16650
1002 CyberSerial (1-port) 16850
1010 Duet 1S(16550)+1P
1011 Duet 1S(16650)+1P
1012 Duet 1S(16850)+1P
1020 CyberParallel (1-port)
1021 CyberParallel (2-port)
1030 CyberSerial (2-port)
16550
1031 CyberSerial (2-port) 16650
1032 CyberSerial (2-port) 16850
1034 Trio 2S(16550)+1P
1035 Trio 2S(16650)+1P
1036 Trio 2S(16850)+1P
1050 CyberSerial (4-port) 16550
1051 CyberSerial (4-port) 16650
1052 CyberSerial (4-port) 16850
2000 CyberSerial (1-port) 16550
2001 CyberSerial (1-port) 16650
2002 CyberSerial (1-port) 16850
2010 Duet 1S(16550)+1P
2011 Duet 1S(16650)+1P
2012 Duet 1S(16850)+1P
2020 CyberParallel (1-port)
2021 CyberParallel (2-port)
2030 CyberSerial (2-port) 16550
 131f 2030 PCI Serial Card
2031 CyberSerial (2-port) 16650
2032 CyberSerial (2-port) 16850
2040 Trio 1S(16550)+2P
2041 Trio 1S(16650)+2P
2042 Trio 1S(16850)+2P
2050 CyberSerial (4-port) 16550
2051 CyberSerial (4-port) 16650
2052 CyberSerial (4-port) 16850
2060 Trio 2S(16550)+1P
2061 Trio 2S(16650)+1P
2062 Trio 2S(16850)+1P
2081 CyberSerial (8-port) ST16654
1320 Crypto AG
1321 Arcobel Graphics BV
1322 MTT Co., Ltd
1323 Dome Inc
1324 Sphere Communications

1325
Salix Technologies, Inc
1326 Seachange international
1327 Voss scientific
1328 quadrant international
1329 Productivity Enhancement
132a Microcom Inc.
132b Broadband Technologies
132c Micrel Inc
132d Integrated Silicon Solution, Inc.
1330 MMC Networks
1331 RadiSys Corporation
0030 ENP-2611
8200 82600 Host Bridge
8201 82600 IDE
8202 82600 USB
8210 82600 PCI Bridge
1332 Micro Memory
5415 MM-5415CN PCI Memory Module with Battery Backup
5425 MM-5425CN PCI 64/66 Memory Module with Battery Backup
6140 MM-6140D
1334 Redcreek Communications, Inc
1335 Videomail, Inc
1337 Third Planet Publishing
1338 BT Electronics
133a Vtel Corp
133b Softcom Microsystems
133c Holontech Corp
133d SS Technologies
133e Virtual Computer Corp
133f SCM Microsystems
1340 Atalla Corp
1341 Kyoto Microcomputer Co
1342 Promax Systems Inc
1343 Phylon Communications Inc
1344 Crucial Technology
1345 Arescom Inc
1347 Odetics
1349 Sumitomo Electric Industries, Ltd.
134a
DTC Technology Corp.
0001 Domex 536
0002 Domex DMX3194UP SCSI Adapter
134b ARK Research Corp.
134c Chori Joho System Co. Ltd
134d PCTel Inc
2189 HSP56 MicroModem
2486 2304WT V.92 MDC Modem

7890 HSP MicroModem 56
134d 0001 PCT789 adapter
7891 HSP MicroModem 56
134d 0001 HSP MicroModem 56
7892 HSP MicroModem 56
7893 HSP MicroModem 56
7894 HSP MicroModem 56
7895 HSP MicroModem 56
7896 HSP MicroModem 56
7897 HSP MicroModem 56
134e CSTI
134f Algo System Co Ltd
1350 Systec Co. Ltd
1351 Sonix Inc
1353 Thales Idatys
0002 Proserver
0003 PCI-FUT
0004 PCI-S0
0005 PCI-FUT-S0
1354 Dwave System Inc
1355 Kratos Analytical Ltd
1356 The Logical Co
1359 Prisa Networks
135a Brain Boxes
135b Giganet Inc
135c Quatech Inc
0010 QSC-100
0020 DSC-100
0030 DSC-200/300
0040 QSC-200/300
0050 ESC-100D
0060 ESC-100M
00f0 MPAC-100 Syncronous Serial Card (Zilog 85230)
0170 QSCLP-100
0180 DSCLP-100
0190 SSCLP-100
01a0 QSCLP-200/300
01b0
 DSCLP-200/300
01c0 SSCLP-200/300
135d ABB Network Partner AB
135e Sealevel Systems Inc
5101 Route 56.PCI - Multi-Protocol Serial Interface (Zilog Z16C32)
7101 Single Port RS-232/422/485/530
7201 Dual Port RS-232/422/485 Interface
7202 Dual Port RS-232 Interface
7401 Four Port RS-232 Interface
7402 Four Port RS-422/485 Interface

7801 Eight Port RS-232 Interface
7804 Eight Port RS-232/422/485 Interface
8001 8001 Digital I/O Adapter
135f I-Data International A-S
1360 Meinberg Funkuhren
0101 PCI32 DCF77 Radio Clock
0102 PCI509 DCF77 Radio Clock
0103 PCI510 DCF77 Radio Clock
0104 PCI511 DCF77 Radio Clock
0201 GPS167PCI GPS Receiver
0202 GPS168PCI GPS Receiver
0203 GPS169PCI GPS Receiver
0204 GPS170PCI GPS Receiver
0301 TCR510PCI IRIG Timecode Reader
0302 TCR167PCI IRIG Timecode Reader
0303 TCR511PCI IRIG Timecode Reader
1361 Soliton Systems K.K.
1362 Fujifacom Corporation
1363 Phoenix Technology Ltd
1364 ATM Communications Inc
1365 Hypercope
GmbH
1366 Teijin Seiki Co. Ltd
1367 Hitachi Zosen Corporation
1368 Skyware Corporation
1369 Digigram
136a High Soft Tech
0004 HST Saphir VII mini PCI
0007 HST Saphir III E MultiLink 4
0008 HST Saphir III E MultiLink 8
000a HST Saphir III E MultiLink 2
136b Kawasaki Steel Corporation
ff01 KL5A72002 Motion JPEG
136c Adtek System Science Co Ltd
136d Gigalabs Inc
136f Applied Magic Inc
1370 ATL Products
1371 CNet Technology Inc
434e GigaCard Network Adapter
1371 434e N-Way PCI-Bus Giga-Card 1000/100/10Mbps(L)
1373 Silicon Vision Inc
1374 Silicom Ltd.
0024 Silicom Dual port Giga Ethernet BGE Bypass Server Adapter
0025 Silicom Quad port Giga Ethernet BGE Bypass Server Adapter
0026 Silicom Dual port Fiber Giga Ethernet 546 Bypass Server Adapter
0027 Silicom Dual port Fiber LX Giga Ethernet 546 Bypass Server Adapter
0029 Silicom Dual port Copper Giga Ethernet 546GB Bypass Server Adapter
002a Silicom Dual port Fiber Giga Ethernet 546 TAP/Bypass Server

Adapter
002b Silicom Dual port Copper Fast Ethernet 546 TAP/Bypass Server Adapter (PXE2TBI)
002c Silicom Quad port Copper Giga Ethernet 546GB Bypass Server Adapter (PXG4BPI)
002d Silicom Quad port Fiber-SX Giga Ethernet 546GB Bypass Server Adapter (PXG4BPFI)
002e Silicom Quad port Fiber-LX Giga Ethernet 546GB Bypass Server Adapter (PXG4BPFI-LX)
002f Silicom Dual port Fiber-SX Giga Ethernet 546GB Low profile Bypass Server Adapter (PXG2BPFIL)
0030 Silicom Dual port Fiber-LX Giga Ethernet 546GB Low profile Bypass Server Adapter
0031 Silicom Quad port Copper Giga Ethernet PCI-E Bypass Server Adapter
0032 Silicom Dual port Copper Fast Ethernet 546 TAP/Bypass Server Adapter
0034 Silicom Dual port Copper Giga Ethernet PCI-E BGE Bypass Server Adapter
0035 Silicom Quad port Copper Giga Ethernet PCI-E BGE Bypass Server Adapter
0036 Silicom Dual port Fiber Giga Ethernet PCI-E BGE Bypass Server Adapter
0037 Silicom Quad port Copper Ethernet PCI-E Intel based Bypass Server
Adapter
0038 Silicom Quad port Copper Ethernet PCI-E Intel based Bypass Server Adapter
0039 Silicom Dual port Fiber-SX Ethernet PCI-E Intel based Bypass Server Adapter
003a Silicom Dual port Fiber-LX Ethernet PCI-E Intel based Bypass Server Adapter
003b Silicom Dual port Fiber Ethernet PMC Intel based Bypass Server Adapter (PMCX2BPFI)
003c Silicom Dual port Copper Ethernet PCI-X BGE based Bypass Server Adapter (PXG2BPRB)
1375 Argosystems Inc
1376 LMC
1377 Electronic Equipment Production & Distribution GmbH
1378 Telemann Co. Ltd
1379 Asahi Kasei Microsystems Co Ltd
137a Mark of the Unicorn Inc
0001 PCI-324 Audiowire Interface
137b PPT Vision
137c Iwatsu Electric Co Ltd
137d Dynachip Corporation
137e Patriot Scientific Corporation
137f Japan Satellite Systems Inc
1380 Sanritz Automation Co Ltd
1381 Brains Co. Ltd
1382 Marian - Electronic & Software
0001 ARC88 audio recording card
2008 Prodif 96 Pro sound system
2048 Prodif Plus sound system
2088 Marc 8
Midi sound system
20c8 Marc A sound system
4008 Marc 2 sound system
4010 Marc 2 Pro sound system
4048 Marc 4 MIDI sound system
4088 Marc 4 Digi sound system
4248 Marc X sound system
4424 TRACE D4 Sound System
1383 Controlnet Inc
1384 Reality Simulation Systems Inc

1385 Netgear
 0013 WG311T 108 Mbps Wireless PCI Adapter
 006b WA301 802.11b Wireless PCI Adapter
 311a GA311 Gigabit Ethernet PCI Adapter
 4100 MA301 802.11b Wireless PCI Adapter
 4105 MA311 802.11b Wireless PCI Adapter
 4251 WG111T 108 Mbps Wireless USB 2.0 Adapter
 4400 WAG511 802.11a/b/g Dual Band Wireless PC Card
 4600 WAG511 802.11a/b/g Dual Band Wireless PC Card
 4601 WAG511 802.11a/b/g Dual Band Wireless PC Card
 4610 WAG511 802.11a/b/g Dual Band Wireless PC Card
 4800 WG511(v1) 54 Mbps Wireless PC Card
 4900 WG311v1 54 Mbps Wireless PCI Adapter
 4a00 WAG311 802.11a/g Wireless PCI Adapter
 4b00 WG511T 108 Mbps Wireless PC Card
 4c00 WG311v2 54 Mbps Wireless PCI Adapter
 4d00 WG311T 108
 Mbps Wireless PCI Adapter
 4e00 WG511v2 54 Mbps Wireless PC Card
 4f00 WG511U Double 108 Mbps Wireless PC Card
 5200 GA511 Gigabit PC Card
 620a GA620 Gigabit Ethernet
 622a GA622
 630a GA630 Gigabit Ethernet
 6b00 WG311v3 54 Mbps Wireless PCI Adapter
 6d00 WPNT511 RangeMax 240 Mbps Wireless PC Card
 7b00 WN511B RangeMax Next 270 Mbps Wireless PC Card
 7c00 WN511T RangeMax Next 300 Mbps Wireless PC Card
 7d00 WN311B RangeMax Next 270 Mbps Wireless PCI Adapter
 7e00 WN311T RangeMax Next 300 Mbps Wireless PCI Adapter
 f004 FA310TX
1386 Video Domain Technologies
1387 Systran Corp
1388 Hitachi Information Technology Co Ltd
1389 Applicom International
 0001 PCI1500PFB [Intelligent fieldbus adaptor]
138a Fusion Micromedia Corp
138b Tokimec Inc
138c Silicon Reality
138d Future Techno Designs pte Ltd
138e Basler GmbH
138f Patapsco Designs Inc
1390 Concept Development Inc
1391 Development Concepts Inc
1392 Medialight Inc
1393 Moxa Technologies Co Ltd
 1040 Smartio

C104H/PCI
1141 Industrio CP-114
1680 Smartio C168H/PCI
1681 CP-168U V2 Smart Serial Board (8-port RS-232)
2040 Intellio CP-204J
2180 Intellio C218 Turbo PCI
3200 Intellio C320 Turbo PCI
1394 Level One Communications
0001 LXT1001 Gigabit Ethernet
1394 0001 NetCelerator Adapter
1395 Ambicom Inc
1396 Cipher Systems Inc
1397 Cologne Chip Designs GmbH
08b4 ISDN network Controller [HFC-4S]
1397 b520 HFC-4S [IOB4ST]
1397 b540 HFC-4S [Swyx 4xS0 SX2 QuadBri]
1397 b556 HFC-4S [Junghanns DuoDBRI]
16b8 ISDN network Controller [HFC-8S]
2bd0 ISDN network controller [HFC-PCI]
0675 1704 ISDN Adapter (PCI Bus, D, C)
0675 1708 ISDN Adapter (PCI Bus, D, C, ACPI)
1397 2bd0 ISDN Board
e4bf 1000 CI1-1-Harp
30b1 ISDN network Controller [HFC-E1]
b700 ISDN network controller PrimuX S0 [HFC-PCI]
f001 GSM Network Controller [HFC-4GSM]
1398 Clarion co. Ltd
1399 Rios systems Co Ltd
139a Alacritech Inc
0001 Quad Port 10/100 Server Accelerator
0003 Single
Port 10/100 Server Accelerator
0005 Single Port Gigabit Server Accelerator
139b Mediasonic Multimedia Systems Ltd
139c Quantum 3d Inc
139d EPL limited
139e Media4
139f Aethra s.r.l.
13a0 Crystal Group Inc
13a1 Kawasaki Heavy Industries Ltd
13a2 Ositech Communications Inc
13a3 Hifn Inc.
0005 7751 Security Processor
0006 6500 Public Key Processor
0007 7811 Security Processor
0012 7951 Security Processor
0014 78XX Security Processor
0016 8065 Security Processor

0017 8165 Security Processor
0018 8154 Security Processor
001d 7956 Security Processor
0020 7955 Security Processor
0026 8155 Security Processor
002e 9630 Compression Processor
13a4 Rascom Inc
13a5 Audio Digital Imaging Inc
13a6 Videonics Inc
13a7 Teles AG
13a8 Exar Corp.
0152 XR17C/D152 Dual PCI UART
0154 XR17C154 Quad UART
0158 XR17C158 Octal UART
13a9 Siemens Medical Systems, Ultrasound Group
13aa Broadband Networks Inc
13ab Arcom Control Systems Ltd
13ac Motion Media Technology
Ltd
13ad Nexus Inc
13ae ALD Technology Ltd
13af T.Sqware
13b0 Maxspeed Corp
13b1 Tamura corporation
13b2 Techno Chips Co. Ltd
13b3 Lanart Corporation
13b4 Wellbean Co Inc
13b5 ARM
13b6 Dlog GmbH
13b7 Logic Devices Inc
13b8 Nokia Telecommunications oy
13b9 Elecom Co Ltd
13ba Oxford Instruments
13bb Sanyo Technosound Co Ltd
13bc Bitran Corporation
13bd Sharp corporation
13be Miroku Jyoho Service Co. Ltd
13bf Sharewave Inc
13c0 Microgate Corporation
0010 SyncLink Adapter v1
0020 SyncLink SCC Adapter
0030 SyncLink Multiport Adapter
0210 SyncLink Adapter v2
13c1 3ware Inc
1000 5xxx/6xxx-series PATA-RAID
1001 7xxx/8xxx-series PATA/SATA-RAID
13c1 1001 7xxx/8xxx-series PATA/SATA-RAID
1002 9xxx-series SATA-RAID

1003 9550SX SATA-RAID
1004 9650SE SATA-II RAID
13c2 Technotrend Systemtechnik GmbH
000e Technotrend/Hauppauge DVB card rev2.3
13c3 Janz Computer AG
13c4 Phase Metrics
13c5 Alphi Technology Corp
13c6 Condor Engineering Inc
0520 CEI-520 A429
Card
0620 CEI-620 A429 Card
0820 CEI-820 A429 Card
13c7 Blue Chip Technology Ltd
13c8 Apptech Inc
13c9 Eaton Corporation
13ca Iomega Corporation
13cb Yano Electric Co Ltd
13cc Metheus Corporation
13cd Compatible Systems Corporation
13ce Cocom A/S
13cf Studio Audio & Video Ltd
13d0 Techsan Electronics Co Ltd
2103 B2C2 FlexCopII DVB chip / Technisat SkyStar2 DVB card
2200 B2C2 FlexCopIII DVB chip / Technisat SkyStar2 DVB card
13d1 Abocom Systems Inc
ab02 ADMtek Centaur-C rev 17 [D-Link DFE-680TX] CardBus Fast Ethernet Adapter
ab03 21x4x DEC-Tulip compatible 10/100 Ethernet
ab06 RTL8139 [FE2000VX] CardBus Fast Ethernet Attached Port Adapter
ab08 21x4x DEC-Tulip compatible 10/100 Ethernet
13d2 Shark Multimedia Inc
13d3 IMC Networks
3219 DTV-DVB 7049A DVB-T USB Stick
13d4 Graphics Microsystems Inc
13d5 Media 100 Inc
13d6 K.I. Technology Co Ltd
13d7 Toshiba Engineering Corporation
13d8 Phobos corporation
13d9 Apex PC Solutions Inc
13da Intresource Systems
pte Ltd
13db Janich & Klass Computertechnik GmbH
13dc Netboost Corporation
13dd Multimedia Bundle Inc
13de ABB Robotics Products AB
13df E-Tech Inc
0001 PCI56RVP Modem
13df 0001 PCI56RVP Modem
13e0 GVC Corporation

13e1 Silicom Multimedia Systems Inc
13e2 Dynamics Research Corporation
13e3 Nest Inc
13e4 Calculex Inc
13e5 Telesoft Design Ltd
13e6 Argosy research Inc
13e7 NAC Incorporated
13e8 Chip Express Corporation
13e9 Intraserver Technology Inc
13ea Dallas Semiconductor
13eb Hauppauge Computer Works Inc
13ec Zydacron Inc
 000a NPC-RC01 Remote control receiver
13ed Raytheion E-Systems
13ee Hayes Microcomputer Products Inc
13ef Coppercom Inc
13f0 Sundance Technology Inc / IC Plus Corp
 0200 IC Plus IP100A Integrated 10/100 Ethernet MAC + PHY
 0201 ST201 Sundance Ethernet
 1023 IP1000 Family Gigabit Ethernet
13f1 Oce' - Technologies B.V.
13f2 Ford Microelectronics Inc
13f3 Mcdata Corporation
13f4 Troika Networks, Inc.
 1401 Zentai Fibre Channel
 Adapter
13f5 Kansai Electric Co. Ltd
13f6 C-Media Electronics Inc
 0011 CMI8738
 0100 CM8338A
  13f6 ffff CMI8338/C3DX PCI Audio Device
 0101 CM8338B
  13f6 0101 CMI8338-031 PCI Audio Device
 0111 CM8738
  1019 0970 P6STP-FL motherboard
  1043 8035 CUSI-FX motherboard
  1043 8077 CMI8738 6-channel audio controller
  1043 80e2 CMI8738 6ch-MX
  13f6 0111 CMI8738/C3DX PCI Audio Device
  1681 a000 Gamesurround MUSE XL
 0211 CM8738
 9880 CM9880
13f7 Wildfire Communications
13f8 Ad Lib Multimedia Inc
13f9 NTT Advanced Technology Corp.
13fa Pentland Systems Ltd
13fb Aydin Corp
13fc Computer Peripherals International

13fd Micro Science Inc
13fe Advantech Co. Ltd
 1240 PCI-1240 4-channel stepper motor controller card
 1600 PCI-16xx series PCI multiport serial board (function 0)
This board has two PCI functions, appears as two PCI devices
  1601 0002 PCI-1601 2-port unisolated RS-422/485
This board has two PCI functions, appears as two PCI devices
  1602 0002 PCI-1602
 2-port isolated RS-422/485
  1612 0004 PCI-1612 4-port RS-232/422/485
 16ff PCI-16xx series PCI multiport serial board (function 1: RX/TX steering CPLD)
  1601 0000 PCI-1601 2-port unisolated RS-422/485 PCI communications card
  1602 0000 PCI-1602 2-port isolated RS-422/485
  1612 0000 PCI-1612 4-port RS-232/422/485
 1733 PCI-1733 32-channel isolated digital input card
 1752 PCI-1752
 1754 PCI-1754
 1756 PCI-1756
13ff Silicon Spice Inc
1400 Artx Inc
 1401 9432 TX
1401 CR-Systems A/S
1402 Meilhaus Electronic GmbH
1403 Ascor Inc
1404 Fundamental Software Inc
1405 Excalibur Systems Inc
1406 Oce' Printing Systems GmbH
1407 Lava Computer mfg Inc
 0100 Lava Dual Serial
 0101 Lava Quatro A
 0102 Lava Quatro B
 0110 Lava DSerial-PCI Port A
 0111 Lava DSerial-PCI Port B
 0120 Quattro-PCI A
 0121 Quattro-PCI B
 0180 Lava Octo A
 0181 Lava Octo B
 0200 Lava Port Plus
 0201 Lava Quad A
 0202 Lava Quad B
 0220 Lava Quattro PCI Ports A/B
 0221 Lava Quattro PCI Ports
 C/D
 0500 Lava Single Serial
 0600 Lava Port 650
 8000 Lava Parallel
 8001 Dual parallel port controller A
 8002 Lava Dual Parallel port A

8003 Lava Dual Parallel port B
8800 BOCA Research IOPPAR
1408 Aloka Co. Ltd
1409 Timedia Technology Co Ltd
7168 PCI2S550 (Dual 16550 UART)
140a DSP Research Inc
140b Ramix Inc
140c Elmic Systems Inc
140d Matsushita Electric Works Ltd
140e Goepel Electronic GmbH
140f Salient Systems Corp
1410 Midas lab Inc
1411 Ikos Systems Inc
Nee IC Ensemble Inc.
1412 VIA Technologies Inc.
1712 ICE1712 [Envy24] PCI Multi-Channel I/O Controller
1412 1712 Hoontech ST Audio DSP 24
1412 d630 M-Audio Delta 1010
1412 d631 M-Audio Delta DiO
1412 d632 M-Audio Delta 66
1412 d633 M-Audio Delta 44
1412 d634 M-Audio Delta Audiophile
1412 d635 M-Audio Delta TDIF
1412 d637 M-Audio Delta RBUS
1412 d638 M-Audio Delta 410
1412 d63b M-Audio Delta 1010LT
1412 d63c Digigram VX442
1416 1712 Hoontech ST Audio DSP 24 Media
7.1
153b 1115 EWS88 MT
153b 1125 EWS88 MT (Master)
153b 112b EWS88 D
153b 112c EWS88 D (Master)
153b 1130 EWX 24/96
153b 1138 DMX 6fire 24/96
153b 1151 PHASE88
16ce 1040 Edirol DA-2496
1724 VT1720/24 [Envy24PT/HT] PCI Multi-Channel Audio Controller
1412 1724 Albatron PX865PE 7.1
1412 3630 M-Audio Revolution 7.1
1412 3631 M-Audio Revolution 5.1
153b 1145 Aureon 7.1 Space
153b 1147 Aureon 5.1 Sky
153b 1153 Aureon 7.1 Universe
270f f641 ZNF3-150
270f f645 ZNF3-250
1413 Addonics
1414 Microsoft Corporation

1415 Oxford Semiconductor Ltd
 8403 VScom 011H-EP1 1 port parallel adaptor
 9500 OX16PCI954 (Quad 16950 UART) function 0 (Disabled)
 9501 OX16PCI954 (Quad 16950 UART) function 0 (Uart)
  12c4 0201 Titan/cPCI (2 port)
  12c4 0202 Titan/cPCI (4 port)
  12c4 0203 Titan/cPCI (8 port)
  12c4 0210 Titan/104-Plus (8 port, p1-4)
  131f 2050 CyberPro (4-port)
Model IO1085, Part No: JJ-P46012
  131f 2051 CyberSerial 4S Plus
  15ed 2000
  MCCR Serial p0-3 of 8
  15ed 2001 MCCR Serial p0-3 of 16
 950a EXSYS EX-41092 Dual 16950 Serial adapter
 950b OXCB950 Cardbus 16950 UART
 9510 OX16PCI954 (Quad 16950 UART) function 1 (Disabled)
  12c4 0200 Titan/cPCI (Unused)
 9511 OX16PCI954 (Quad 16950 UART) function 1 (8bit bus)
  12c4 0211 Titan/104-Plus (8 port, p5-8)
  15ed 2000 MCCR Serial p4-7 of 8
  15ed 2001 MCCR Serial p4-15 of 16
 9512 OX16PCI954 (Quad 16950 UART) function 1 (32bit bus)
 9513 OX16PCI954 (Quad 16950 UART) function 1 (parallel port)
 9521 OX16PCI952 (Dual 16950 UART)
 9523 OX16PCI952 Integrated Parallel Port
1416 Multiwave Innovation pte Ltd
1417 Convergenet Technologies Inc
1418 Kyushu electronics systems Inc
1419 Excel Switching Corp
141a Apache Micro Peripherals Inc
141b Zoom Telephonics Inc
141d Digitan Systems Inc
141e Fanuc Ltd
141f Visiontech Ltd
1420 Psion Dacom plc
 8002 Gold Card NetGlobal 56k+10/100Mb CardBus (Ethernet part)
 8003 Gold Card NetGlobal 56k+10/100Mb CardBus
 (Modem part)
1421 Ads Technologies Inc
1422 Ygrec Systems Co Ltd
1423 Custom Technology Corp.
1424 Videoserver Connections
1425 Chelsio Communications Inc
 000b T210 Protocol Engine
 000c T204 Protocol Engine
1426 Storage Technology Corp.
1427 Better On-Line Solutions

1428 Edec Co Ltd
1429 Unex Technology Corp.
142a Kingmax Technology Inc
142b Radiolan
142c Minton Optic Industry Co Ltd
142d Pix stream Inc
142e Vitec Multimedia
4020 VM2-2 [Video Maker 2] MPEG1/2 Encoder
4337 VM2-2-C7 [Video Maker 2 rev. C7] MPEG1/2 Encoder
142f Radicom Research Inc
1430 ITT Aerospace/Communications Division
1431 Gilat Satellite Networks
1432 Edimax Computer Co.
9130 RTL81xx Fast Ethernet
1433 Eltec Elektronik GmbH
Nee Real Time Devices US Inc.
1435 RTD Embedded Technologies, Inc.
4520 PCI4520
6020 SPM6020
6030 SPM6030
6420 SPM186420
6430 SPM176430
7520 DM7520
7820 DM7820
1436 CIS Technology Inc
1437 Nissin Inc Co
1438 Atmel-dream
1439 Outsource Engineering
& Mfg. Inc
143a Stargate Solutions Inc
143b Canon Research Center, America
143c Amlogic Inc
143d Tamarack Microelectronics Inc
143e Jones Futurex Inc
143f Lightwell Co Ltd - Zax Division
1440 ALGOL Corp.
1441 AGIE Ltd
1442 Phoenix Contact GmbH & Co.
1443 Unibrain S.A.
1444 TRW
1445 Logical DO Ltd
1446 Graphin Co Ltd
1447 AIM GmBH
1448 Alesis Studio Electronics
1449 TUT Systems Inc
144a Adlink Technology
7296 PCI-7296
7432 PCI-7432

7433 PCI-7433
7434 PCI-7434
7841 PCI-7841
8133 PCI-8133
8164 PCI-8164
8554 PCI-8554
9111 PCI-9111
9113 PCI-9113
9114 PCI-9114
144b Loronix Information Systems Inc
144c Catalina Research Inc
144d Samsung Electronics Co Ltd
c00c P35 laptop
144e OLITEC
144f Askey Computer Corp.
1450 Octave Communications Ind.
1451 SP3D Chip Design GmBH
1453 MYCOM Inc
1454 Altiga Networks
1455 Logic Plus Plus Inc
1456 Advanced Hardware Architectures
1457 Nuera Communications Inc
1458 Giga-byte Technology
0c11 K8NS Pro Mainboard
9001
GC-PTV-TAF Hybrid TV card
e911 GN-WIAG02
1459 DOOIN Electronics
145a Escalate Networks Inc
145b PRAIM SRL
145c Cryptek
145d Gallant Computer Inc
145e Aashima Technology B.V.
145f Baldor Electric Company
0001 NextMove PCI
1460 DYNARC INC
1461 Avermedia Technologies Inc
a3ce M179
a3cf M179
a836 M115 DVB-T, PAL/SECAM/NTSC Tuner
f436 AVerTV Hybrid+FM
1462 Micro-Star International Co., Ltd.
5501 nVidia NV15DDR [GeForce2 Ti]
6819 Broadcom Corporation BCM4306 802.11b/g Wireless LAN Controller [MSI CB54G]
6825 PCI Card wireless 11g [PC54G]
6834 RaLink RT2500 802.11g [PC54G2]
7125 K8N motherboard
7235 P965 Neo MS-7235 mainboard

7242 K9AGM RS485 Motherboard
8725 NVIDIA NV25 [GeForce4 Ti 4600] VGA Adapter
9000 NVIDIA NV28 [GeForce4 Ti 4800] VGA Adapter
9110 GeFORCE FX5200
9119 NVIDIA NV31 [GeForce FX 5600XT] VGA Adapter
9123 NVIDIA NV31 [GeForce FX 5600] FX5600-VTDR128 [MS-8912]
9510 Radeon 9600XT
9511 Radeon 9600XT
9591 nVidia Corporation
NV36 [GeForce FX 5700LE]
b834 Wireless 11g Turbo G PCI card [MSI PC60G]
1463 Fast Corporation
1464 Interactive Circuits & Systems Ltd
1465 GN NETTEST Telecom DIV.
1466 Designpro Inc.
1467 DIGICOM SPA
1468 AMBIT Microsystem Corp.
1469 Cleveland Motion Controls
146a IFR
146b Parascan Technologies Ltd
146c Ruby Tech Corp.
1430 FE-1430TX Fast Ethernet PCI Adapter
146d Tachyon, INC.
146e Williams Electronics Games, Inc.
146f Multi Dimensional Consulting Inc
1470 Bay Networks
1471 Integrated Telecom Express Inc
1472 DAIKIN Industries, Ltd
1473 ZAPEX Technologies Inc
1474 Doug Carson & Associates
1475 PICAZO Communications
1476 MORTARA Instrument Inc
1477 Net Insight
1478 DIATREND Corporation
1479 TORAY Industries Inc
147a FORMOSA Industrial Computing
147b ABIT Computer Corp.
147c AWARE, Inc.
147d Interworks Computer Products
147e Matsushita Graphic Communication Systems, Inc.
147f NIHON UNISYS, Ltd.
1480 SCII Telecom
1481 BIOPAC Systems Inc
1482 ISYTEC
- Integrierte Systemtechnik GmBH
1483 LABWAY Corporation
1484 Logic Corporation
1485 ERMA - Electronic GmBH

1486 L3 Communications Telemetry & Instrumentation
1487 MARQUETTE Medical Systems
1488 KONTRON Electronik GmBH
1489 KYE Systems Corporation
148a OPTO
148b INNOMEDIALOGIC Inc.
148c C.P. Technology Co. Ltd
148d DIGICOM Systems, Inc.
1003 HCF 56k Data/Fax Modem
148e OSI Plus Corporation
148f Plant Equipment, Inc.
1490 Stone Microsystems PTY Ltd.
1491 ZEAL Corporation
1492 Time Logic Corporation
1493 MAKER Communications
1494 WINTOP Technology, Inc.
1495 TOKAI Communications Industry Co. Ltd
1496 JOYTECH Computer Co., Ltd.
1497 SMA Regelsysteme GmBH
1497 SMA Technologie AG
1498 TEWS Datentechnik GmBH
0330 TPMC816 2 Channel CAN bus controller.
0385 TPMC901 Extended CAN bus with 2/4/6 CAN controller
21cc TCP460 CompactPCI 16 Channel Serial Interface RS232/RS422
21cd TCP461 CompactPCI 8 Channel Serial Interface RS232/RS422
30c8 TPCI200
1499 EMTEC
CO., Ltd
149a ANDOR Technology Ltd
149b SEIKO Instruments Inc
149c OVISLINK Corp.
149d NEWTEK Inc
0001 Video Toaster for PC
149e Mapletree Networks Inc.
149f LECTRON Co Ltd
14a0 SOFTING GmBH
14a1 Systembase Co Ltd
14a2 Millennium Engineering Inc
14a3 Maverick Networks
14a4 GVC/BCM Advanced Research
14a5 XIONICS Document Technologies Inc
14a6 INOVA Computers GmBH & Co KG
14a7 MYTHOS Systems Inc
14a8 FEATRON Technologies Corporation
14a9 HIVERTEC Inc
14aa Advanced MOS Technology Inc
14ab Mentor Graphics Corp.
14ac Novaweb Technologies Inc

14ad Time Space Radio AB
14ae CTI, Inc
14af Guillemot Corporation
 7102 3D Prophet II MX
14b0 BST Communication Technology Ltd
14b1 Nextcom K.K.
14b2 ENNOVATE Networks Inc
14b3 XPEED Inc
 0000 DSL NIC
14b4 PHILIPS Business Electronics B.V.
14b5 Creamware GmBH
 0200 Scope
 0300 Pulsar
 0400 PulsarSRB
 0600 Pulsar2
 0800 DSP-Board
 0900 DSP-Board
 0a00 DSP-Board
 0b00 DSP-Board
14b6 Quantum Data Corp.
14b7 PROXIM
 Inc
 0001 Symphony 4110
14b8 Techsoft Technology Co Ltd
14b9 AIRONET Wireless Communications
 0001 PC4800
 0340 PC4800
 0350 PC4800
 4500 PC4500
 4800 Cisco Aironet 340 802.11b Wireless LAN Adapter/Aironet PC4800
 a504 Cisco Aironet Wireless 802.11b
 a505 Cisco Aironet CB20a 802.11a Wireless LAN Adapter
 a506 Cisco Aironet Mini PCI b/g
14ba INTERNIX Inc.
14bb SEMTECH Corporation
14bc Globespan Semiconductor Inc.
 d002 Pulsar [PCI ADSL Card]
 d00f Pulsar [PCI ADSL Card]
14bd CARDIO Control N.V.
14be L3 Communications
14bf SPIDER Communications Inc.
14c0 COMPAL Electronics Inc
14c1 MYRICOM Inc.
 0008 Myri-10G Dual-Protocol NIC (10G-PCIE-8A)
 8043 Myrinet 2000 Scalable Cluster Interconnect
  103c 1240 Myrinet M2L-PCI64/2-3.0 LANai 7.4 (HP OEM)
14c2 DTK Computer
14c3 MEDIATEK Corp.

14c4 IWASAKI Information Systems Co Ltd
14c5 Automation Products AB
14c6 Data Race Inc
14c7 Modular Technology Holdings Ltd
14c8 Turbocomm Tech. Inc.
14c9 ODIN Telesystems Inc
14ca
 PE Logic Corp.
14cb Billionton Systems Inc
14cc NAKAYO Telecommunications Inc
14cd Universal Scientific Ind.
14ce Whistle Communications
14cf TEK Microsystems Inc.
14d0 Ericsson Axe R & D
14d1 Computer Hi-Tech Co Ltd
14d2 Titan Electronics Inc
 8001 VScom 010L 1 port parallel adaptor
 8002 VScom 020L 2 port parallel adaptor
 8010 VScom 100L 1 port serial adaptor
 8011 VScom 110L 1 port serial and 1 port parallel adaptor
 8020 VScom 200L 1 port serial adaptor
 8021 VScom 210L 2 port serial and 1 port parallel adaptor
 8040 VScom 400L 4 port serial adaptor
 8080 VScom 800L 8 port serial adaptor
 a000 VScom 010H 1 port parallel adaptor
 a001 VScom 100H 1 port serial adaptor
 a003 VScom 400H 4 port serial adaptor
 a004 VScom 400HF1 4 port serial adaptor
 a005 VScom 200H 2 port serial adaptor
 e001 VScom 010HV2 1 port parallel adaptor
 e010 VScom 100HV2 1 port serial adaptor
 e020 VScom 200HV2 2 port serial adaptor
14d3 CIRTECH (UK) Ltd
14d4 Panacom Technology
 Corp
14d5 Nitsuko Corporation
14d6 Accusys Inc
14d7 Hirakawa Hewtech Corp
14d8 HOPF Elektronik GmBH
Formerly SiPackets, Inc., formerly API NetWorks, Inc., formerly Alpha Processor, Inc.
14d9 Alliance Semiconductor Corporation
 0010 AP1011/SP1011 HyperTransport-PCI Bridge [Sturgeon]
 9000 AS90L10204/10208 HyperTransport to PCI-X Bridge
14da National Aerospace Laboratories
14db AFAVLAB Technology Inc
 2120 TK9902
 2182 AFAVLAB Technology Inc. 8-port serial card
14dc Amplicon Liveline Ltd

0000 PCI230
0001 PCI242
0002 PCI244
0003 PCI247
0004 PCI248
0005 PCI249
0006 PCI260
0007 PCI224
0008 PCI234
0009 PCI236
000a PCI272
000b PCI215
14dd Boulder Design Labs Inc
14de Applied Integration Corporation
14df ASIC Communications Corp
14e1 INVERTEX
14e2 INFOLIBRIA
14e3 AMTELCO
14e4 Broadcom Corporation
0800 Sentry5 Chipcommon I/O Controller
0804 Sentry5 PCI Bridge
0805 Sentry5 MIPS32 CPU
0806 Sentry5 Ethernet Controller
080b Sentry5 Crypto Accelerator
080f
Sentry5 DDR/SDR RAM Controller
0811 Sentry5 External Interface Core
0816 BCM3302 Sentry5 MIPS32 CPU
1600 NetXtreme BCM5752 Gigabit Ethernet PCI Express
103c 3015 PCIe LAN on Motherboard
107b 5048 E4500 Onboard
1601 NetXtreme BCM5752M Gigabit Ethernet PCI Express
1639 NetXtreme II BCM5709 Gigabit Ethernet
163a NetXtreme II BCM5709S Gigabit Ethernet
1644 NetXtreme BCM5700 Gigabit Ethernet
1014 0277 Broadcom Vigil B5700 1000Base-T
1028 00d1 Broadcom BCM5700
1028 0106 Broadcom BCM5700
1028 0109 Broadcom BCM5700 1000Base-T
1028 010a Broadcom BCM5700 1000BaseTX
10b7 1000 3C996-T 1000Base-T
10b7 1001 3C996B-T 1000Base-T
10b7 1002 3C996C-T 1000Base-T
10b7 1003 3C997-T 1000Base-T Dual Port
10b7 1004 3C996-SX 1000Base-SX
10b7 1005 3C997-SX 1000Base-SX Dual Port
10b7 1008 3C942 Gigabit LOM (31X31)
14e4 0002 NetXtreme 1000Base-SX

14e4 0003 NetXtreme 1000Base-SX
14e4 0004 NetXtreme 1000Base-T
14e4 1028 NetXtreme 1000BaseTX
14e4
1644 BCM5700 1000Base-T
1645 NetXtreme BCM5701 Gigabit Ethernet
0e11 007c NC7770 Gigabit Server Adapter (PCI-X, 10/100/1000-T)
0e11 007d NC6770 Gigabit Server Adapter (PCI-X, 1000-SX)
0e11 0085 NC7780 Gigabit Server Adapter (embedded, WOL)
0e11 0099 NC7780 Gigabit Server Adapter (embedded, WOL)
0e11 009a NC7770 Gigabit Server Adapter (PCI-X, 10/100/1000-T)
0e11 00c1 NC6770 Gigabit Server Adapter (PCI-X, 1000-SX)
1028 0121 Broadcom BCM5701 1000Base-T
103c 128a 1000Base-T (PCI) [A7061A]
103c 128b 1000Base-SX (PCI) [A7073A]
103c 12a4 Core Lan 1000Base-T
103c 12c1 IOX Core Lan 1000Base-T [A7109AX]
103c 1300 Core LAN/SCSI Combo [A6794A]
10a9 8010 IO9/IO10 Gigabit Ethernet (Copper)
10a9 8011 Gigabit Ethernet (Copper)
10a9 8012 Gigabit Ethernet (Fiber)
10b7 1004 3C996-SX 1000Base-SX
10b7 1006 3C996B-T 1000Base-T
10b7 1007 3C1000-T 1000Base-T
10b7 1008 3C940-BR01 1000Base-T
14e4 0001 BCM5701 1000Base-T
14e4 0005 BCM5701
1000Base-T
14e4 0006 BCM5701 1000Base-T
14e4 0007 BCM5701 1000Base-SX
14e4 0008 BCM5701 1000Base-T
14e4 8008 BCM5701 1000Base-T
1646 NetXtreme BCM5702 Gigabit Ethernet
0e11 00bb NC7760 1000BaseTX
1028 0126 Broadcom BCM5702 1000BaseTX
14e4 8009 BCM5702 1000BaseTX
1647 NetXtreme BCM5703 Gigabit Ethernet
0e11 0099 NC7780 1000BaseTX
0e11 009a NC7770 1000BaseTX
10a9 8010 SGI IO9 Gigabit Ethernet (Copper)
14e4 0009 BCM5703 1000BaseTX
14e4 000a BCM5703 1000BaseSX
14e4 000b BCM5703 1000BaseTX
14e4 8009 BCM5703 1000BaseTX
14e4 800a BCM5703 1000BaseTX
1648 NetXtreme BCM5704 Gigabit Ethernet
0e11 00cf NC7772 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
0e11 00d0 NC7782 Gigabit Server Adapter (PCI-X, 10,100,1000-T)

0e11 00d1 NC7783 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
10a9 8013 Dual Port Gigabit Ethernet (PCI-X,Copper)
10a9 8018 Dual Port Gigabit Ethernet (A330)
10a9 801a Dual Port Gigabit Ethernet (IA-blade)
10a9
801b Quad Port Gigabit Ethernet (PCI-E,Copper)
10b7 2000 3C998-T Dual Port 10/100/1000 PCI-X
10b7 3000 3C999-T Quad Port 10/100/1000 PCI-X
1166 1648 NetXtreme CIOB-E 1000Base-T
1734 100b Primergy RX300
164a NetXtreme II BCM5706 Gigabit Ethernet
103c 3070 NC380T PCI Express Dual Port Multifunction Gigabit Server Adapter
103c 3101 NC370T MultifuNCtion Gigabit Server Adapter
164c NetXtreme II BCM5708 Gigabit Ethernet
103c 7037 NC373T PCI Express Multifunction Gigabit Server Adapter
103c 7038 NC373i Integrated Multifunction Gigabit Server Adapter
164d NetXtreme BCM5702FE Gigabit Ethernet
1653 NetXtreme BCM5705 Gigabit Ethernet
0e11 00e3 NC7761 Gigabit Server Adapter
1654 NetXtreme BCM5705_2 Gigabit Ethernet
0e11 00e3 NC7761 Gigabit Server Adapter
103c 3100 NC1020 ProLiant Gigabit Server Adapter 32 PCI
103c 3226 NC150T 4-port Gigabit Combo Switch & Adapter
1659 NetXtreme BCM5721 Gigabit Ethernet PCI Express
1014 02c6 eServer xSeries server
mainboard
103c 7031 NC320T PCIe Gigabit Server Adapter
103c 7032 NC320i PCIe Gigabit Server Adapter
1734 1061 Primergy RX300 S2
165a NetXtreme BCM5722 Gigabit Ethernet PCI Express
103c 7051 NC105i PCIe Gigabit Server Adapter
103c 7052 NC105T PCIe Gigabit Server Adapter
165d NetXtreme BCM5705M Gigabit Ethernet
1028 865d Latitude D400
165e NetXtreme BCM5705M_2 Gigabit Ethernet
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
103c 099c NX6110/NC6120
10cf 1279 LifeBook E8010D
1668 NetXtreme BCM5714 Gigabit Ethernet
103c 7039 NC324i PCIe Dual Port Gigabit Server Adapter
1669 NetXtreme 5714S Gigabit Ethernet
166a NetXtreme BCM5780 Gigabit Ethernet
166b NetXtreme BCM5780S Gigabit Ethernet
166e 570x 10/100 Integrated Controller
1672 NetXtreme BCM5754M Gigabit Ethernet PCI Express
1673 NetXtreme BCM5755M Gigabit Ethernet PCI Express
1674 NetXtreme BCM5756ME Gigabit Ethernet PCI Express

1677 NetXtreme BCM5751 Gigabit Ethernet PCI Express
 1028
0179 Optiplex GX280
 1028 0182 Latitude D610
 1028 0187 Precision M70
 1028 01ad Optiplex GX620
 103c 3006 DC7100 SFF(DX878AV)
 1734 105d Scenic W620
1678 NetXtreme BCM5715 Gigabit Ethernet
1679 NetXtreme BCM5715S Gigabit Ethernet
 103c 1707 NC326m PCIe Dual Port Adapter
 103c 170c NC325m PCIe Quad Port Adapter
 103c 703c NC326i PCIe Dual Port Gigabit Server Adapter
167a NetXtreme BCM5754 Gigabit Ethernet PCI Express
167b NetXtreme BCM5755 Gigabit Ethernet PCI Express
167d NetXtreme BCM5751M Gigabit Ethernet PCI Express
 17aa 2081 Thinkpad R60e model 0657
167e NetXtreme BCM5751F Fast Ethernet PCI Express
167f NetLink BCM5787F Fast Ethernet PCI Express
1693 NetLink BCM5787M Gigabit Ethernet PCI Express
1696 NetXtreme BCM5782 Gigabit Ethernet
 103c 12bc d530 CMT (DG746A)
 14e4 000d NetXtreme BCM5782 1000Base-T
169a NetLink BCM5786 Gigabit Ethernet PCI Express
169b NetLink BCM5787 Gigabit Ethernet PCI Express
169c NetXtreme BCM5788
Gigabit Ethernet
 103c 308b MX6125
 103c 30a1 NC2400
169d NetLink BCM5789 Gigabit Ethernet PCI Express
16a6 NetXtreme BCM5702X Gigabit Ethernet
 0e11 00bb NC7760 Gigabit Server Adapter (PCI-X, 10/100/1000-T)
 1028 0126 BCM5702 1000Base-T
 14e4 000c BCM5702 1000Base-T
 14e4 8009 BCM5702 1000Base-T
16a7 NetXtreme BCM5703X Gigabit Ethernet
 0e11 00ca NC7771 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
 0e11 00cb NC7781 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
 14e4 0009 NetXtreme BCM5703 1000Base-T
 14e4 000a NetXtreme BCM5703 1000Base-SX
 14e4 000b NetXtreme BCM5703 1000Base-T
 14e4 800a NetXtreme BCM5703 1000Base-T
16a8 NetXtreme BCM5704S Gigabit Ethernet
 10a9 8014 Dual Port Gigabit Ethernet (PCI-X,Fiber)
 10a9 801c Quad Port Gigabit Ethernet (PCI-E,Fiber)
 10b7 2001 3C998-SX Dual Port 1000-SX PCI-X
16aa NetXtreme II BCM5706S Gigabit Ethernet
 103c 3102 NC370F MultifuNCtion Gigabit Server Adapter

16ac NetXtreme II BCM5708S Gigabit Ethernet
 103c
1706 NC373m Multifunction Gigabit Server Adapter
 103c 7038 NC373i PCI Express Multifunction Gigabit Server Adapter
 103c 703b NC373i Integrated Multifunction Gigabit Server Adapter
 103c 703d NC373F PCI Express Multifunction Gigabit Server Adapter
16c6 NetXtreme BCM5702A3 Gigabit Ethernet
 10b7 1100 3C1000B-T 10/100/1000 PCI
 14e4 000c BCM5702 1000Base-T
 14e4 8009 BCM5702 1000Base-T
16c7 NetXtreme BCM5703 Gigabit Ethernet
 0e11 00ca NC7771 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
 0e11 00cb NC7781 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
 103c 12c3 Combo FC/GigE-SX [A9782A]
 103c 12ca Combo FC/GigE-T [A9784A]
 14e4 0009 NetXtreme BCM5703 1000Base-T
 14e4 000a NetXtreme BCM5703 1000Base-SX
16dd NetLink BCM5781 Gigabit Ethernet PCI Express
16f7 NetXtreme BCM5753 Gigabit Ethernet PCI Express
16fd NetXtreme BCM5753M Gigabit Ethernet PCI Express
16fe NetXtreme BCM5753F Fast Ethernet PCI Express
170c BCM4401-B0 100Base-TX
 1028 0188
 Inspiron 6000 laptop
 1028 0196 Inspiron 5160
 1028 01af Inspiron 6400
 103c 099c NX6110/NC6120
170d NetXtreme BCM5901 100Base-TX
 1014 0545 ThinkPad R40e (2684-HVG) builtin ethernet controller
170e NetXtreme BCM5901 100Base-TX
1712 NetLink BCM5906 Fast Ethernet PCI Express
1713 NetLink BCM5906M Fast Ethernet PCI Express
3352 BCM3352
3360 BCM3360
4210 BCM4210 iLine10 HomePNA 2.0
4211 BCM4211 iLine10 HomePNA 2.0 + V.90 56k modem
4212 BCM4212 v.90 56k modem
4220 802-11b/g Wireless PCI controller, packaged as a Linksys WPC54G ver 1.2 PCMCIA card
4301 BCM4303 802.11b Wireless LAN Controller
 1028 0407 TrueMobile 1180 Onboard WLAN
 1043 0120 WL-103b Wireless LAN PC Card
4305 BCM4307 V.90 56k Modem
4306 BCM4307 Ethernet Controller
4307 BCM4307 802.11b Wireless LAN Controller
4310 BCM4310 Chipcommon I/OController
4311 BCM94311MCG wlan mini-PCI
4312 BCM4312 802.11a/b/g
4313 BCM4310 Ethernet Controller

4315 BCM4310 USB Controller
4318 BCM4318
[AirForce One 54g] 802.11g Wireless LAN Controller
 103c 1356 MX6125
 1043 120f A6U notebook embedded card
 1468 0311 Aspire 3022WLMi, 5024WLMi, 5020
 1468 0312 TravelMate 2410
 14e4 0449 Gateway 7510GX
 14e4 4318 WPC54G version 3 [Wireless-G Notebook Adapter] 802.11g Wireless Lan Controller
 16ec 0119 U.S.Robotics Wireless MAXg PC Card
 1737 0042 WMP54GS version 1.1 [Wireless-G PCI Adapter] 802.11g w/SpeedBooster
 1737 0048 WPC54G-EU version 3 [Wireless-G Notebook Adapter]
4319 BCM4311 [AirForce 54g] 802.11a/b/g PCI Express Transceiver
4320 BCM4306 802.11b/g Wireless LAN Controller
 1028 0001 TrueMobile 1300 WLAN Mini-PCI Card
 1028 0003 Wireless 1350 WLAN Mini-PCI Card
 103c 12f4 NX9500 Built-in Wireless
 103c 12fa Presario R3000 802.11b/g
 1043 100f WL-100G
 1057 7025 WN825G
 106b 004e AirPort Extreme
 1154 0330 Buffalo WLI2-PCI-G54S High Speed Mode Wireless Desktop Adapter
 144f 7050 eMachines M6805 802.11g Built-in Wireless
 144f 7051
 Sonnet Aria Extreme PCI
 14e4 4320 Linksys WMP54G PCI
 1737 4320 WPC54G
 1799 7001 Belkin F5D7001 High-Speed Mode Wireless G Network Card
 1799 7010 Belkin F5D7010 54g Wireless Network card
 1799 7011 F5D7011 54g+ Wireless Network card
 185f 1220 TravelMate 290E WLAN Mini-PCI Card
4321 BCM4306 802.11a Wireless LAN Controller
4322 BCM4306 UART
4324 BCM4309 802.11a/b/g
 1028 0001 Truemobile 1400
 1028 0003 Truemobile 1450 MiniPCI
4325 BCM43xG 802.11b/g
 1414 0003 Wireless Notebook Adapter MN-720
 1414 0004 Wireless PCI Adapter MN-730
4326 BCM4307 Chipcommon I/O Controller?
4329 BCM43XG
4344 EDGE/GPRS data and 802.11b/g combo cardbus [GC89]
4401 BCM4401 100Base-T
 103c 08b0 tc1100 tablet
 1043 80a8 A7V8X motherboard
4402 BCM4402 Integrated 10/100BaseT
4403 BCM4402 V.90 56k Modem
4410 BCM4413 iLine32 HomePNA 2.0

4411 BCM4413 V.90 56k modem
4412 BCM4412 10/100BaseT
4430 BCM44xx CardBus iLine32 HomePNA 2.0
4432 BCM4432 CardBus 10/100BaseT
4610
BCM4610 Sentry5 PCI to SB Bridge
4611 BCM4610 Sentry5 iLine32 HomePNA 1.0
4612 BCM4610 Sentry5 V.90 56k Modem
4613 BCM4610 Sentry5 Ethernet Controller
4614 BCM4610 Sentry5 External Interface
4615 BCM4610 Sentry5 USB Controller
4704 BCM4704 PCI to SB Bridge
4705 BCM4704 Sentry5 802.11b Wireless LAN Controller
4706 BCM4704 Sentry5 Ethernet Controller
4707 BCM4704 Sentry5 USB Controller
4708 BCM4704 Crypto Accelerator
4710 BCM4710 Sentry5 PCI to SB Bridge
4711 BCM47xx Sentry5 iLine32 HomePNA 2.0
4712 BCM47xx V.92 56k modem
4713 Sentry5 Ethernet Controller
4714 BCM47xx Sentry5 External Interface
4715 Sentry5 USB Controller
4716 BCM47xx Sentry5 USB Host Controller
4717 BCM47xx Sentry5 USB Device Controller
4718 Sentry5 Crypto Accelerator
4719 BCM47xx/53xx RoboSwitch Core
4720 BCM4712 MIPS CPU
5365 BCM5365P Sentry5 Host Bridge
5600 BCM5600 StrataSwitch 24+2 Ethernet Switch Controller
5605 BCM5605 StrataSwitch 24+2 Ethernet Switch Controller
5615
BCM5615 StrataSwitch 24+2 Ethernet Switch Controller
5625 BCM5625 StrataSwitch 24+2 Ethernet Switch Controller
5645 BCM5645 StrataSwitch 24+2 Ethernet Switch Controller
5670 BCM5670 8-Port 10GE Ethernet Switch Fabric
5680 BCM5680 G-Switch 8 Port Gigabit Ethernet Switch Controller
5690 BCM5690 12-port Multi-Layer Gigabit Ethernet Switch
5691 BCM5691 GE/10GE 8+2 Gigabit Ethernet Switch Controller
5692 BCM5692 12-port Multi-Layer Gigabit Ethernet Switch
5695 BCM5695 12-port + HiGig Multi-Layer Gigabit Ethernet Switch
5698 BCM5698 12-port Multi-Layer Gigabit Ethernet Switch
5820 BCM5820 Crypto Accelerator
5821 BCM5821 Crypto Accelerator
5822 BCM5822 Crypto Accelerator
5823 BCM5823 Crypto Accelerator
5824 BCM5824 Crypto Accelerator
5840 BCM5840 Crypto Accelerator
5841 BCM5841 Crypto Accelerator

5850 BCM5850 Crypto Accelerator
14e5 Pixelfusion Ltd
14e6 SHINING Technology Inc
14e7 3CX
14e8 RAYCER Inc
14e9 GARNETS System CO Ltd
14ea Planex
Communications, Inc
ab06 FNW-3603-TX CardBus Fast Ethernet
ab07 RTL81xx RealTek Ethernet
ab08 FNW-3602-TX CardBus Fast Ethernet
14eb SEIKO EPSON Corp
14ec ACQIRIS
14ed DATAKINETICS Ltd
14ee MASPRO KENKOH Corp
14ef CARRY Computer ENG. CO Ltd
14f0 CANON RESEACH CENTRE FRANCE
14f1 Conexant
1002 HCF 56k Modem
1003 HCF 56k Modem
1004 HCF 56k Modem
1005 HCF 56k Modem
1006 HCF 56k Modem
1022 HCF 56k Modem
1023 HCF 56k Modem
1024 HCF 56k Modem
1025 HCF 56k Modem
1026 HCF 56k Modem
1032 HCF 56k Modem
1033 HCF 56k Data/Fax Modem
1033 8077 NEC
122d 4027 Dell Zeus - MDP3880-W(B) Data Fax Modem
122d 4030 Dell Mercury - MDP3880-U(B) Data Fax Modem
122d 4034 Dell Thor - MDP3880-W(U) Data Fax Modem
13e0 020d Dell Copper
13e0 020e Dell Silver
13e0 0261 IBM
13e0 0290 Compaq Goldwing
13e0 02a0 IBM
13e0 02b0 IBM
13e0 02c0 Compaq Scooter
13e0 02d0 IBM
144f 1500 IBM P85-DF (1)
144f 1501 IBM P85-DF (2)
144f 150a IBM P85-DF (3)
144f
150b IBM P85-DF Low Profile (1)
144f 1510 IBM P85-DF Low Profile (2)

1034 HCF 56k Data/Fax/Voice Modem
1035 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
 10cf 1098 Fujitsu P85-DFSV
1036 HCF 56k Data/Fax/Voice/Spkp Modem
 104d 8067 HCF 56k Modem
 122d 4029 MDP3880SP-W
 122d 4031 MDP3880SP-U
 13e0 0209 Dell Titanium
 13e0 020a Dell Graphite
 13e0 0260 Gateway Red Owl
 13e0 0270 Gateway White Horse
1052 HCF 56k Data/Fax Modem (Worldwide)
1053 HCF 56k Data/Fax Modem (Worldwide)
1054 HCF 56k Data/Fax/Voice Modem (Worldwide)
1055 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem (Worldwide)
1056 HCF 56k Data/Fax/Voice/Spkp Modem (Worldwide)
1057 HCF 56k Data/Fax/Voice/Spkp Modem (Worldwide)
1059 HCF 56k Data/Fax/Voice Modem (Worldwide)
1063 HCF 56k Data/Fax Modem
1064 HCF 56k Data/Fax/Voice Modem
1065 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
1066 HCF 56k Data/Fax/Voice/Spkp Modem
 122d 4033 Dell Athena - MDP3900V-U
1085 HCF V90 56k
Data/Fax/Voice/Spkp PCI Modem
10b6 CX06834-11 HCF V.92 56k Data/Fax/Voice/Spkp Modem
1433 HCF 56k Data/Fax Modem
1434 HCF 56k Data/Fax/Voice Modem
1435 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
1436 HCF 56k Data/Fax Modem
1453 HCF 56k Data/Fax Modem
 13e0 0240 IBM
 13e0 0250 IBM
 144f 1502 IBM P95-DF (1)
 144f 1503 IBM P95-DF (2)
1454 HCF 56k Data/Fax/Voice Modem
1455 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
1456 HCF 56k Data/Fax/Voice/Spkp Modem
 122d 4035 Dell Europa - MDP3900V-W
 122d 4302 Dell MP3930V-W(C) MiniPCI
1610 ADSL AccessRunner PCI Arbitration Device
1611 AccessRunner PCI ADSL Interface Device
1620 AccessRunner V2 PCI ADSL Arbitration Device
1621 AccessRunner V2 PCI ADSL Interface Device
1622 AccessRunner V2 PCI ADSL Yukon WAN Adapter
1803 HCF 56k Modem
 0e11 0023 623-LAN Grizzly
 0e11 0043 623-LAN Yogi

1811 Conextant MiniPCI Network Adapter
1815 HCF 56k Modem
 0e11 0022 Grizzly
 0e11 0042 Yogi
2003 HSF 56k
Data/Fax Modem
2004 HSF 56k Data/Fax/Voice Modem
2005 HSF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
2006 HSF 56k Data/Fax/Voice/Spkp Modem
2013 HSF 56k Data/Fax Modem
 0e11 b195 Bear
 0e11 b196 Seminole 1
 0e11 b1be Seminole 2
 1025 8013 Acer
 1033 809d NEC
 1033 80bc NEC
 155d 6793 HP
 155d 8850 E Machines
2014 HSF 56k Data/Fax/Voice Modem
2015 HSF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
2016 HSF 56k Data/Fax/Voice/Spkp Modem
2043 HSF 56k Data/Fax Modem (WorldW SmartDAA)
2044 HSF 56k Data/Fax/Voice Modem (WorldW SmartDAA)
2045 HSF 56k Data/Fax/Voice/Spkp (w/Handset) Modem (WorldW SmartDAA)
 14f1 2045 Generic SoftK56
2046 HSF 56k Data/Fax/Voice/Spkp Modem (WorldW SmartDAA)
2063 HSF 56k Data/Fax Modem (SmartDAA)
2064 HSF 56k Data/Fax/Voice Modem (SmartDAA)
2065 HSF 56k Data/Fax/Voice/Spkp (w/Handset) Modem (SmartDAA)
2066 HSF 56k Data/Fax/Voice/Spkp Modem (SmartDAA)
2093 HSF 56k Modem
 155d 2f07 Legend
2143 HSF 56k Data/Fax/Cell Modem
(Mob WorldW SmartDAA)
2144 HSF 56k Data/Fax/Voice/Cell Modem (Mob WorldW SmartDAA)
2145 HSF 56k Data/Fax/Voice/Spkp (w/HS)/Cell Modem (Mob WorldW SmartDAA)
2146 HSF 56k Data/Fax/Voice/Spkp/Cell Modem (Mob WorldW SmartDAA)
2163 HSF 56k Data/Fax/Cell Modem (Mob SmartDAA)
2164 HSF 56k Data/Fax/Voice/Cell Modem (Mob SmartDAA)
2165 HSF 56k Data/Fax/Voice/Spkp (w/HS)/Cell Modem (Mob SmartDAA)
2166 HSF 56k Data/Fax/Voice/Spkp/Cell Modem (Mob SmartDAA)
2343 HSF 56k Data/Fax CardBus Modem (Mob WorldW SmartDAA)
2344 HSF 56k Data/Fax/Voice CardBus Modem (Mob WorldW SmartDAA)
2345 HSF 56k Data/Fax/Voice/Spkp (w/HS) CardBus Modem (Mob WorldW SmartDAA)
2346 HSF 56k Data/Fax/Voice/Spkp CardBus Modem (Mob WorldW SmartDAA)
2363 HSF 56k Data/Fax CardBus Modem (Mob SmartDAA)
2364 HSF 56k Data/Fax/Voice CardBus Modem (Mob SmartDAA)
2365 HSF 56k Data/Fax/Voice/Spkp (w/HS) CardBus Modem (Mob SmartDAA)

2366 HSF 56k Data/Fax/Voice/Spkp CardBus Modem (Mob SmartDAA)
2443 HSF
56k Data/Fax Modem (Mob WorldW SmartDAA)
 104d 8075 Modem
 104d 8083 Modem
 104d 8097 Modem
2444 HSF 56k Data/Fax/Voice Modem (Mob WorldW SmartDAA)
2445 HSF 56k Data/Fax/Voice/Spkp (w/HS) Modem (Mob WorldW SmartDAA)
2446 HSF 56k Data/Fax/Voice/Spkp Modem (Mob WorldW SmartDAA)
2463 HSF 56k Data/Fax Modem (Mob SmartDAA)
2464 HSF 56k Data/Fax/Voice Modem (Mob SmartDAA)
2465 HSF 56k Data/Fax/Voice/Spkp (w/HS) Modem (Mob SmartDAA)
2466 HSF 56k Data/Fax/Voice/Spkp Modem (Mob SmartDAA)
2bfa HDAudio Soft Data Fax Modem with SmartCP
 1025 0009 Aspire 5622WLMi
2f00 HSF 56k HSFi Modem
 13e0 8d84 IBM HSFi V.90
 13e0 8d85 Compaq Stinger
 14f1 2004 Dynalink 56PMi
2f02 HSF 56k HSFi Data/Fax
2f11 HSF 56k HSFi Modem
2f20 HSF 56k Data/Fax Modem
2f30 HSF 56k Data/Fax Modem
5045 HDAUDIO with SmartCP
5047 High Definition Audio [Waikiki]
8234 RS8234 ATM SAR Controller [ServiceSAR Plus]
8800 CX23880/1/2/3 PCI Video and Audio Decoder
 0070 2801 Hauppauge WinTV
28xxx (Roslyn) models
 0070 3401 Hauppauge WinTV 34xxx models
 0070 9001 Nova-T DVB-T
 0070 9200 Nova-SE2 DVB-S
 0070 9202 Nova-S-Plus DVB-S
 0070 9402 WinTV-HVR1100 DVB-T/Hybrid
 0070 9802 WinTV-HVR1100 DVB-T/Hybrid (Low Profile)
 1002 00f8 ATI TV Wonder Pro
 1002 a101 HDTV Wonder
 1043 4823 ASUS PVR-416
 107d 6613 Leadtek Winfast 2000XP Expert
 107d 6620 Leadtek Winfast DV2000
 107d 663c Leadtek PVR 2000
 107d 665f WinFast DTV1000-T
 10fc d003 IODATA GV-VCP3/PCI
 10fc d035 IODATA GV/BCTV7E
 1421 0334 Instant TV DVB-T PCI
 1461 000a AVerTV 303 (M126)
 1461 000b AverTV Studio 303 (M126)
 1461 8011 UltraTV Media Center PCI 550

1462 8606 MSI TV-@nywhere Master
14c7 0107 GDI Black Gold
14f1 0187 Conexant DVB-T reference design
14f1 0342 Digital-Logic MICROSPACE Entertainment Center (MEC)
153b 1166 Cinergy 1400 DVB-T
1540 2580 Provideo PV259
1554 4811 PixelView
1554 4813 Club 3D ZAP1000 MCE Edition
17de 08a1 KWorld/VStream
XPert DVB-T with cx22702
17de 08a6 KWorld/VStream XPert DVB-T
17de 08b2 KWorld DVB-S 100
17de a8a6 digitalnow DNTV Live! DVB-T
1822 0025 digitalnow DNTV Live! DVB-T Pro
18ac d500 FusionHDTV 5 Gold
18ac d810 FusionHDTV 3 Gold-Q
18ac d820 FusionHDTV 3 Gold-T
18ac db00 FusionHDTV DVB-T1
18ac db11 FusionHDTV DVB-T Plus
18ac db50 FusionHDTV DVB-T Dual Digital
7063 3000 pcHDTV HD3000 HDTV
8801 CX23880/1/2/3 PCI Video and Audio Decoder [Audio Port]
0070 2801 Hauppauge WinTV 28xxx (Roslyn) models
8802 CX23880/1/2/3 PCI Video and Audio Decoder [MPEG Port]
0070 2801 Hauppauge WinTV 28xxx (Roslyn) models
0070 9002 Nova-T DVB-T Model 909
1043 4823 ASUS PVR-416
107d 663c Leadtek PVR 2000
107d 665f WinFast DTV1000-T
14f1 0187 Conexant DVB-T reference design
17de 08a1 XPert DVB-T PCI BDA DVBT 23880 Transport Stream Capture
17de 08a6 KWorld/VStream XPert DVB-T
18ac d500 DViCO FusionHDTV5 Gold
18ac d810 DViCO FusionHDTV3 Gold-Q
18ac
d820 DViCO FusionHDTV3 Gold-T
18ac db00 DVICO FusionHDTV DVB-T1
18ac db10 DVICO FusionHDTV DVB-T Plus
7063 3000 pcHDTV HD3000 HDTV
8804 CX23880/1/2/3 PCI Video and Audio Decoder [IR Port]
0070 9002 Nova-T DVB-T Model 909
8811 CX23880/1/2/3 PCI Video and Audio Decoder [Audio Port]
0070 3401 Hauppauge WinTV 34xxx models
1462 8606 MSI TV-@nywhere Master
18ac d500 DViCO FusionHDTV5 Gold
18ac d810 DViCO FusionHDTV3 Gold-Q
18ac d820 DViCO FusionHDTV3 Gold-T
18ac db00 DVICO FusionHDTV DVB-T1

14f2 MOBILITY Electronics
 0120 EV1000 bridge
 0121 EV1000 Parallel port
 0122 EV1000 Serial port
 0123 EV1000 Keyboard controller
 0124 EV1000 Mouse controller
14f3 BroadLogic
 2030 2030 DVB-S Satellite Reciever
 2050 2050 DVB-T Terrestrial (Cable) Reciever
 2060 2060 ATSC Terrestrial (Cable) Reciever
14f4 TOKYO Electronic Industry CO Ltd
14f5 SOPAC Ltd
14f6 COYOTE Technologies LLC
14f7 WOLF Technology Inc
14f8 AUDIOCODES Inc
 2077 TP-240 dual span E1
 VoIP PCI card
14f9 AG COMMUNICATIONS
14fa WANDEL & GOLTERMANN
14fb TRANSAS MARINE (UK) Ltd
14fc Quadrics Ltd
 0000 QsNet Elan3 Network Adapter
 0001 QsNetII Elan4 Network Adapter
 0002 QsNetIII Elan5 Network Adapter
14fd JAPAN Computer Industry Inc
14fe ARCHTEK TELECOM Corp
14ff TWINHEAD INTERNATIONAL Corp
1500 DELTA Electronics, Inc
 1360 RTL81xx RealTek Ethernet
1501 BANKSOFT CANADA Ltd
1502 MITSUBISHI ELECTRIC LOGISTICS SUPPORT Co Ltd
1503 KAWASAKI LSI USA Inc
1504 KAISER Electronics
1505 ITA INGENIEURBURO FUR TESTAUFGABEN GmbH
1506 CHAMELEON Systems Inc
Should be HTEC Ltd, but there are no known HTEC chips and 1507 is already used by mistake by Motorola (see vendor ID 1057).
1507 Motorola ?? / HTEC
 0001 MPC105 [Eagle]
 0002 MPC106 [Grackle]
 0003 MPC8240 [Kahlua]
 0100 MC145575 [HFC-PCI]
 0431 KTI829c 100VG
 4801 Raven
 4802 Falcon
 4803 Hawk
 4806 CPX8216
1508 HONDA CONNECTORS/MHOTRONICS Inc

1509 FIRST INTERNATIONAL Computer Inc
150a FORVUS RESEARCH
Inc
150b YAMASHITA Systems Corp
150c KYOPAL CO Ltd
150d WARPSPPED Inc
150e C-PORT Corp
150f INTEC GmbH
1510 BEHAVIOR TECH Computer Corp
1511 CENTILLIUM Technology Corp
1512 ROSUN Technologies Inc
1513 Raychem
1514 TFL LAN Inc
1515 Advent design
1516 MYSON Technology Inc
0800 MTD-8xx 100/10M Ethernet PCI Adapter
0803 SURECOM EP-320X-S 100/10M Ethernet PCI Adapter
1320 10bd SURECOM EP-320X-S 100/10M Ethernet PCI Adapter
0891 MTD-8xx 100/10M Ethernet PCI Adapter
1517 ECHOTEK Corp
1518 PEP MODULAR Computers GmbH
1519 TELEFON AKTIEBOLAGET LM Ericsson
151a Globetek
1002 PCI-1002
1004 PCI-1004
1008 PCI-1008
151b COMBOX Ltd
151c DIGITAL AUDIO LABS Inc
0003 Prodif T 2496
4000 Prodif 88
151d Fujitsu Computer Products Of America
151e MATRIX Corp
151f TOPIC SEMICONDUCTOR Corp
0000 TP560 Data/Fax/Voice 56k modem
1520 CHAPLET System Inc
1521 BELL Corp
1522 MainPine Ltd
0100 PCI <-> IOBus Bridge
1522 0200 RockForceDUO 2 Port V.92/V.44 Data/Fax/Voice
Modem
1522 0300 RockForceQUATRO 4 Port V.92/V.44 Data/Fax/Voice Modem
1522 0400 RockForceDUO+ 2 Port V.92/V.44 Data/Fax/Voice Modem
1522 0500 RockForceQUATRO+ 4 Port V.92/V.44 Data/Fax/Voice Modem
1522 0600 RockForce+ 2 Port V.90 Data/Fax/Voice Modem
1522 0700 RockForce+ 4 Port V.90 Data/Fax/Voice Modem
1522 0800 RockForceOCTO+ 8 Port V.92/V.44 Data/Fax/Voice Modem
1522 0c00 RockForceDUO+ 2 Port V.92/V.44 Data, V.34 Super-G3 Fax, Voice Modem
1522 0d00 RockForceQUATRO+ 4 Port V.92/V.44 Data, V.34 Super-G3 Fax, Voice Modem

1522 1d00 RockForceOCTO+ 8 Port V.92/V.44 Data, V.34 Super-G3 Fax, Voice Modem
1522 2000 RockForceD1 1 Port V.90 Data Modem
1522 2100 RockForceF1 1 Port V.34 Super-G3 Fax Modem
1522 2200 RockForceD2 2 Port V.90 Data Modem
1522 2300 RockForceF2 2 Port V.34 Super-G3 Fax Modem
1522 2400 RockForceD4 4 Port V.90 Data Modem
1522 2500 RockForceF4 4 Port V.34 Super-G3 Fax Modem
1522 2600 RockForceD8 8 Port V.90 Data Modem
1522
2700 RockForceF8 8 Port V.34 Super-G3 Fax Modem
1522 3000 IQ Express D1 - 1 Port V.92 Data Modem
1522 3100 IQ Express F1 - 1 Port V.34 Super-G3 Fax Modem
1522 3200 IQ Express D2 - 2 Port V.92 Data Modem
1522 3300 IQ Express F2 - 2 Port V.34 Super-G3 Fax Modem
1522 3400 IQ Express D4 - 4 Port V.92 Data Modem
1522 3500 IQ Express F4 - 4 Port V.34 Super-G3 Fax Modem
1522 3c00 IQ Express D8 - 8 Port V.92 Data Modem
1522 3d00 IQ Express F8 - 8 Port V.34 Super-G3 Fax Modem
1523 MUSIC Semiconductors
1524 ENE Technology Inc
0510 CB710 Memory Card Reader Controller
103c 006a NX9500
0520 FLASH memory: ENE Technology Inc:
0530 ENE PCI Memory Stick Card Reader Controller
0550 ENE PCI Secure Digital Card Reader Controller
0551 SD/MMC Card Reader Controller
0610 PCI Smart Card Reader Controller
1211 CB1211 Cardbus Controller
1225 CB1225 Cardbus Controller
1410 CB1410 Cardbus Controller
1025 003c CL50 motherboard
1025 005a TravelMate 290
1411
CB-710/2/4 Cardbus Controller
103c 006a NX9500
1412 CB-712/4 Cardbus Controller
1420 CB1420 Cardbus Controller
1421 CB-720/2/4 Cardbus Controller
1422 CB-722/4 Cardbus Controller
1525 IMPACT Technologies
1526 ISS, Inc
1527 SOLECTRON
1528 ACKSYS
1529 AMERICAN MICROSystems Inc
152a QUICKTURN DESIGN Systems
152b FLYTECH Technology CO Ltd
152c MACRAIGOR Systems LLC
152d QUANTA Computer Inc

152e MELEC Inc
152f PHILIPS - CRYPTO
1530 ACQIS Technology Inc
1531 CHRYON Corp
1532 ECHELON Corp
 0020 LonWorks PCLTA-20 PCI LonTalk Adapter
1533 BALTIMORE
1534 ROAD Corp
1535 EVERGREEN Technologies Inc
1536 ACTIS Computer
1537 DATALEX COMMUNCATIONS
1538 ARALION Inc
 0303 ARS106S Ultra ATA 133/100/66 Host Controller
1539 ATELIER INFORMATIQUES et ELECTRONIQUE ETUDES S.A.
153a ONO SOKKI
153b TERRATEC Electronic GmbH
 1144 Aureon 5.1
Terratec seems to use several IDs for the same card.
 1147 Aureon 5.1 Sky
 1158 Philips Semiconductors SAA7134 (rev 01) [Terratec Cinergy
 600 TV]
153c ANTAL Electronic
153d FILANET Corp
153e TECHWELL Inc
153f MIPS Technologies, Inc.
 0001 SOC-it 101 System Controller
1540 PROVIDEO MULTIMEDIA Co Ltd
1541 MACHONE Communications
1542 Concurrent Computer Corporation
 9260 RCIM-II Real-Time Clock & Interrupt Module
1543 SILICON Laboratories
 3052 Intel 537 [Winmodem]
 4c22 Si3036 MC'97 DAA
1544 DCM DATA Systems
1545 VISIONTEK
1546 IOI Technology Corp
1547 MITUTOYO Corp
1548 JET PROPULSION Laboratory
1549 INTERCONNECT Systems Solutions
154a MAX Technologies Inc
154b COMPUTEX Co Ltd
154c VISUAL Technology Inc
154d PAN INTERNATIONAL Industrial Corp
154e SERVOTEST Ltd
154f STRATABEAM Technology
1550 OPEN NETWORK Co Ltd
1551 SMART Electronic DEVELOPMENT GmBH
1552 RACAL AIRTECH Ltd

1553 CHICONY Electronics Co Ltd
1554 PROLINK Microsystems Corp
1555 GESYTEC GmbH
1556 PLD APPLICATIONS
1557 MEDIASTAR Co Ltd
1558 CLEVO/KAPOK Computer
1559 SI LOGIC Ltd
155a INNOMEDIA Inc
155b PROTAC INTERNATIONAL Corp
155c Cemax-Icon Inc
155d Mac System Co Ltd
155e LP Elektronik GmbH
155f Perle Systems Ltd
1560 Terayon Communications Systems
1561 Viewgraphics Inc
1562 Symbol Technologies
1563 A-Trend Technology Co Ltd
1564 Yamakatsu Electronics Industry Co Ltd
1565 Biostar Microtech Int'l Corp
1566 Ardent Technologies Inc
1567 Jungsoft
1568 DDK Electronics Inc
1569 Palit Microsystems Inc.
156a Avtec Systems
156b 2wire Inc
156c Vidac Electronics GmbH
156d Alpha-Top Corp
156e Alfa Inc
156f M-Systems Flash Disk Pioneers Ltd
1570 Lecroy Corp
1571 Contemporary Controls
a001 CCSI PCI20-485 ARCnet
a002 CCSI PCI20-485D ARCnet
a003 CCSI PCI20-485X ARCnet
a004 CCSI PCI20-CXB ARCnet
a005 CCSI PCI20-CXS ARCnet
a006 CCSI PCI20-FOG-SMA ARCnet
a007 CCSI PCI20-FOG-ST ARCnet
a008 CCSI PCI20-TB5 ARCnet
a009 CCSI PCI20-5-485 5Mbit ARCnet
a00a CCSI PCI20-5-485D 5Mbit ARCnet
a00b CCSI PCI20-5-485X 5Mbit ARCnet
a00c CCSI PCI20-5-FOG-ST 5Mbit ARCnet
a00d CCSI PCI20-5-FOG-SMA 5Mbit ARCnet
a201 CCSI PCI22-485 10Mbit ARCnet
a202 CCSI PCI22-485D 10Mbit ARCnet

a203 CCSI PCI22-485X 10Mbit ARCnet
a204 CCSI PCI22-CHB 10Mbit ARCnet
a205 CCSI PCI22-FOG_ST 10Mbit ARCnet
a206 CCSI PCI22-THB 10Mbit ARCnet
1572 Otis Elevator Company
1573 Lattice - Vantis
1574 Fairchild Semiconductor
1575 Voltaire Advanced Data Security Ltd
1576 Viewcast COM
1578 HITT
5615 VPMK3 [Video Processor Mk III]
1579 Dual Technology Corp
157a Japan Elecronics Ind Inc
157b Star Multimedia Corp
157c Eurosoft (UK)
8001 Fix2000 PCI Y2K Compliance Card
157d Gemflex Networks
157e Transition Networks
157f PX Instruments Technology Ltd
1580 Primex Aerospace Co
1581 SEH Computertechnik GmbH
1582 Cytec Corp
1583 Inet Technologies Inc
1584 Uniwill Computer Corp
1585 Logitron
1586 Lancast Inc
1587 Konica Corp
1588 Solidum Systems Corp
1589 Atlantek Microsystems Pty Ltd
158a Digalog Systems Inc
158b Allied Data Technologies
158c Hitachi Semiconductor & Devices Sales Co Ltd
158d Point Multimedia Systems
158e Lara Technology Inc
158f Ditect Coop
1590 3pardata Inc
0001 Eagle Cluster Manager
0002 Osprey Cluster Manager
a01d FC044X Fibre Channel HBA
1591 ARN
1592 Syba Tech Ltd
0781 Multi-IO Card
0782 Parallel Port Card 2xEPP
0783 Multi-IO Card
0785 Multi-IO Card
0786 Multi-IO Card
0787 Multi-IO Card

0788 Multi-IO Card
078a Multi-IO Card
1593 Bops Inc
1594 Netgame Ltd
1595 Diva Systems Corp
1596 Folsom Research Inc
1597 Memec Design Services
1598 Granite Microsystems
1599 Delta Electronics Inc
159a General Instrument
159b Faraday Technology Corp
159c Stratus Computer Systems
159d Ningbo Harrison Electronics Co Ltd
159e A-Max Technology Co Ltd
159f Galea Network Security
15a0 Compumaster SRL
15a1 Geocast Network Systems
15a2 Catalyst Enterprises Inc
0001 TA700 PCI Bus Analyzer/Exerciser
15a3 Italtel
15a4 X-Net OY
15a5 Toyota Macs Inc
15a6 Sunlight Ultrasound Technologies Ltd
15a7 SSE Telecom Inc
15a8
Shanghai Communications Technologies Center
15aa Moreton Bay
15ab Bluesteel Networks Inc
15ac North Atlantic Instruments
15ad VMware Inc
0405 [VMware SVGA II] PCI Display Adapter
0710 Virtual SVGA
0720 VMware High-Speed Virtual NIC [vmxnet]
15ae Amersham Pharmacia Biotech
15b0 Zoltrix International Ltd
15b1 Source Technology Inc
15b2 Mosaid Technologies Inc
15b3 Mellanox Technologies
0191 MT25408 [ConnectX IB SDR Flash Recovery]
5274 MT21108 InfiniBridge
5a44 MT23108 InfiniHost
5a45 MT23108 [Infinihost HCA Flash Recovery]
5a46 MT23108 PCI Bridge
5e8d MT25204 [InfiniHost III Lx HCA Flash Recovery]
6274 MT25204 [InfiniHost III Lx HCA]
6278 MT25208 InfiniHost III Ex (Tavor compatibility mode)
6279 MT25208 [InfiniHost III Ex HCA Flash Recovery]
6282 MT25208 InfiniHost III Ex

6340 MT25408 [ConnectX IB SDR]
634a MT25418 [ConnectX IB DDR]
6354 MT25428 [ConnectX IB QDR]
6368 MT25448 [ConnectX EN 10GigE]
15b4 CCI/TRIAD
15b5 Cimetrics Inc
15b6 Texas
Memory Systems Inc
15b7 Sandisk Corp
15b8 ADDI-DATA GmbH
1003 APCI1032 SP controller (32 digi inputs w/ opto coupler)
1005 APCI2200 SP controller (8/16 digi outputs (relay))
100a APCI1696 SP controller (96 TTL I/Os)
3001 APCI3501 SP controller (analog output board)
15b9 Maestro Digital Communications
15ba Impacct Technology Corp
15bb Portwell Inc
15bc Agilent Technologies
1100 E8001-66442 PCI Express CIC
2922 64 Bit, 133MHz PCI-X Exerciser & Protocol Checker
2928 64 Bit, 66MHz PCI Exerciser & Analyzer
2929 64 Bit, 133MHz PCI-X Analyzer & Exerciser
15bd DFI Inc
15be Sola Electronics
15bf High Tech Computer Corp (HTC)
15c0 BVM Ltd
15c1 Quantel
15c2 Newer Technology Inc
15c3 Taiwan Mycomp Co Ltd
15c4 EVSX Inc
15c5 Procomp Informatics Ltd
8010 1394b - 1394 Firewire 3-Port Host Adapter Card
15c6 Technical University of Budapest
15c7 Tateyama System Laboratory Co Ltd
0349 Tateyama C-PCI PLC/NC card Rev.01A
15c8 Penta Media Co Ltd
15c9 Serome Technology
Inc
15ca Bitboys OY
15cb AG Electronics Ltd
15cc Hotrail Inc
15cd Dreamtech Co Ltd
15ce Genrad Inc
15cf Hilscher GmbH
15d1 Infineon Technologies AG
15d2 FIC (First International Computer Inc)
15d3 NDS Technologies Israel Ltd
15d4 Iwill Corp

15d5 Tatung Co
15d6 Entridia Corp
15d7 Rockwell-Collins Inc
15d8 Cybernetics Technology Co Ltd
15d9 Super Micro Computer Inc
15da Cyberfirm Inc
15db Applied Computing Systems Inc
15dc Litronic Inc
 0001 Argus 300 PCI Cryptography Module
15dd Sigmatel Inc
15de Malleable Technologies Inc
15df Infinilink Corp
15e0 Cacheflow Inc
15e1 Voice Technologies Group Inc
15e2 Quicknet Technologies Inc
 0500 PhoneJack-PCI
15e3 Networth Technologies Inc
15e4 VSN Systemen BV
15e5 Valley technologies Inc
15e6 Agere Inc
15e7 Get Engineering Corp
15e8 National Datacomm Corp
 0130 Wireless PCI Card
15e9 Pacific Digital Corp
 1841 ADMA-100 DiscStaQ ATA Controller
15ea Tokyo Denshi Sekei K.K.
15eb Drsearch GmbH
15ec Beckhoff GmbH
 3101
  FC3101 Profibus DP 1 Channel PCI
 5102 FC5102
15ed Macrolink Inc
15ee In Win Development Inc
15ef Intelligent Paradigm Inc
15f0 B-Tree Systems Inc
15f1 Times N Systems Inc
15f2 Diagnostic Instruments Inc
15f3 Digitmedia Corp
15f4 Valuesoft
15f5 Power Micro Research
15f6 Extreme Packet Device Inc
15f7 Banctec
15f8 Koga Electronics Co
15f9 Zenith Electronics Corp
15fa J.P. Axzam Corp
15fb Zilog Inc
15fc Techsan Electronics Co Ltd
15fd N-CUBED.NET

15fe Kinpo Electronics Inc
15ff Fastpoint Technologies Inc
1600 Northrop Grumman - Canada Ltd
1601 Tenta Technology
1602 Prosys-tec Inc
1603 Nokia Wireless Communications
1604 Central System Research Co Ltd
1605 Pairgain Technologies
1606 Europop AG
1607 Lava Semiconductor Manufacturing Inc
1608 Automated Wagering International
1609 Scimetric Instruments Inc
1612 Telesynergy Research Inc.
1619 FarSite Communications Ltd
 0400 FarSync T2P (2 port X.21/V.35/V.24)
 0440 FarSync T4P (4 port X.21/V.35/V.24)
 0610
  FarSync T1U (1 port X.21/V.35/V.24)
 0620 FarSync T2U (2 port X.21/V.35/V.24)
 0640 FarSync T4U (4 port X.21/V.35/V.24)
 1610 FarSync TE1 (T1,E1)
 2610 FarSync DSL-S1 (SHDSL)
161f Rioworks
1626 TDK Semiconductor Corp.
 8410 RTL81xx Fast Ethernet
1629 Kongsberg Spacetec AS
 1003 Format synchronizer v3.0
 1006 Format synchronizer, model 10500
 1007 Format synchronizer, model 21000
 2002 Fast Universal Data Output
This seems to occur on their 802.11b Wireless card WMP-11
1637 Linksys
 3874 Linksys 802.11b WMP11 PCI Wireless card
1638 Standard Microsystems Corp [SMC]
 1100 SMC2602W EZConnect / Addtron AWA-100 / Eumitcom PCI WL11000
163c Smart Link Ltd.
 3052 SmartLink SmartPCI562 56K Modem
 5449 SmartPCI561 Modem
1657 Brocade Communications Systems, Inc.
165a Epix Inc
 c100 PIXCI(R) CL1 Camera Link Video Capture Board [custom QL5232]
 d200 PIXCI(R) D2X Digital Video Capture Board [custom QL5232]
 d300 PIXCI(R) D3X Digital Video Capture Board [custom QL5232]
165d
  Hsing Tech. Enterprise Co., Ltd.
165f Linux Media Labs, LLC
 1020 LMLM4 MPEG-4 encoder
1661 Worldspace Corp.

1668 Actiontec Electronics Inc
 0100 Mini-PCI bridge
Formerly SiByte, Inc.
166d Broadcom Corporation
 0001 SiByte BCM1125/1125H/1250 System-on-a-Chip PCI
 0002 SiByte BCM1125H/1250 System-on-a-Chip HyperTransport
1677 Bernecker + Rainer
 104e 5LS172.6 B&R Dual CAN Interface Card
 12d7 5LS172.61 B&R Dual CAN Interface Card
 20ad 5ACPCI.MFIO-K01 Profibus DP / K-Feldbus / COM
167b ZyDAS Technology Corp.
 2102 ZyDAS ZD1202
  187e 3406 ZyAIR B-122 CardBus 11Mbs Wireless LAN Card
167d Samsung Electro-Mechanics Co., Ltd.
 a000 IPW2200 miniPCI Wireless
1681 Hercules
 0010 Hercules 3d Prophet II Ultra 64MB (350 MHz NV15BR core)
1682 XFX Pine Group Inc.
1688 CastleNet Technology Inc.
 1170 WLAN 802.11b card
168c Atheros Communications, Inc.
 0007 AR5000 802.11a Wireless Adapter
 0011 AR5210 802.11a NIC
 0012 AR5211 802.11ab NIC
 0013 AR5212 802.11abg NIC
  1113
 d301 Philips CPWNA100 Wireless CardBus adapter
  1186 3202 D-link DWL-G650 (Rev B3,B5) Wireless cardbus adapter
  1186 3203 DWL-G520 Wireless PCI Adapter
  1186 3a12 D-Link AirPlus DWL-G650 Wireless Cardbus Adapter(rev.C)
  1186 3a13 D-Link AirPlus DWL-G520 Wireless PCI Adapter(rev.B)
  1186 3a14 D-Link AirPremier DWL-AG530 Wireless PCI Adapter
  1186 3a17 D-Link AirPremier DWL-G680 Wireless Cardbus Adapter
  1186 3a18 D-Link AirPremier DWL-G550 Wireless PCI Adapter
  1186 3a63 D-Link AirPremier DWL-AG660 Wireless Cardbus Adapter
  1186 3a93 Conceptronic C54I Wireless 801.11g PCI card
  1186 3a94 C54C Wireless 801.11g cardbus
  1186 3ab0 Allnet ALL0281 Wireless PCI Card
  1385 4d00 Netgear WG311T Wireless PCI Adapter
  1458 e911 Gigabyte GN-WIAG02
  14b7 0a60 8482-WD ORiNOCO 11a/b/g Wireless PCI Adapter
  1668 1026 IBM HighRate 11 a/b/g Wireless CardBus Adapter
  168c 0013 AirPlus XtremeG DWL-G650 Wireless PCMCIA Adapter
  168c 1025 DWL-G650B2 Wireless CardBus
 Adapter
  168c 1027 Engenius NL-3054CB ARIES b/g CardBus Adapter
  168c 1042 Ubiquiti Networks SuperRange a/b/g Cardbus Adapter
  168c 2026 Netgate 5354MP ARIES a(108Mb turbo)/b/g MiniPCI Adapter

168c 2041 Engenius 5354MP Plus ARIES2 b/g MiniPCI Adapter
168c 2042 Engenius 5354MP Plus ARIES2 a/b/g MiniPCI Adapter
168c 2051 TRENDnet TEW-443PI Wireless PCI Adapter
16ab 7302 Trust Speedshare Turbo Pro Wireless PCI Adapter
17cf 0042 Z-COMAX Highpower XG-622H (400mw) 802.11b/g mini-PCI Adapter
185f 1012 CM9 Wireless a/b/g MiniPCI Adapter
185f 2012 Wistron NeWeb WLAN a+b+g model CB9
001a AR5005G 802.11abg NIC
1052 168c Sweex Wireless Lan PC Card 54Mbps
1113 ee20 SMC Wireless CardBus Adapter 802.11g (SMCWCB-G EU)
1113 ee24 SMC Wireless PCI Card WPCI-G
1186 3a15 D-Link AirPlus G DWL-G630 Wireless Cardbus Adapter(rev.D)
1186 3a16 D-Link AirPlus G DWL-G510 Wireless PCI Adapter(rev.B)
1186 3a23 D-Link AirPlus G DWL-G520+A Wireless PCI Adapter
1186 3a24
D-Link AirPlus G DWL-G650+A Wireless Cardbus Adapter
1186 3b08 AirPlus G DWL-G630
168c 001a Belkin FD7000
168c 1052 TP-Link TL-WN510G Wireless CardBus Adapter
168c 2052 Compex Wireless 802.11 b/g MiniPCI Adapter, Rev A1 [WLM54G]
001b AR5006X 802.11abg NIC
1186 3a19 D-Link AirPremier AG DWL-AG660 Wireless Cardbus Adapter
1186 3a22 D-Link AirPremier AG DWL-AG530 Wireless PCI Adapter
1458 e901 GN-WI01HT Wireless a/b/g MiniPCI Adapter
168c 001b Wireless LAN PCI LiteOn
168c 2062 EnGenius EMP-8602 (400mw) or Compex WLM54AG (SuperAG)
168c 2063 EnGenius EMP-8602 (400mw) or Compex WLM54AG
185f 1600 DCMA-82 High Power WLAN 802.11a/b/g mini-PCI Module (Super A/G, eXtended Range, 400mW)
a727 6804 Wireless 11a/b/g PC Card with XJACK(r) Antenna
001c AR5006EG 802.11 b/g Wireless PCI Express Adapter
0020 AR5005VL 802.11bg Wireless NIC
0023 AR5416 802.11a/b/g/n Wireless PCI Adapter
0024 AR5418 802.11a/b/g/n Wireless PCI Express Adapter
1014 AR5212 802.11abg
NIC
1014 058a ThinkPad 11a/b/g Wireless LAN Mini Express Adapter (AR5BXB6)
3b08 D-Link AirPlus G DWL-G630
1695 EPoX Computer Co., Ltd.
169c Netcell Corporation
0044 Revolution Storage Processing Card
The right ID is 196d, but they got it nibble-swapped in 2202.
169d Club-3D VB (Wrong ID)
3306 ZAP TV 2202
16a5 Tekram Technology Co.,Ltd.
16ab Global Sun Technology Inc
1100 GL24110P
1101 PLX9052 PCMCIA-to-PCI Wireless LAN
1102 PCMCIA-to-PCI Wireless Network Bridge

8501 WL-8305 Wireless LAN PCI Adapter
16ae SafeNet Inc
0001 SafeXcel 1140
000a SafeXcel 1841
1141 SafeXcel 1141
1841 SafeXcel 1842
16af SparkLAN Communications, Inc.
16b4 Aspex Semiconductor Ltd
16b8 Sonnet Technologies, Inc.
16be Creatix Polymedia GmbH
16c6 Micrel-Kendin
8695 Centaur KS8695 ARM processor
16c8 Octasic Inc.
16c9 EONIC B.V. The Netherlands
16ca CENATEK Inc
0001 Rocket Drive DL
16cd Densitron Technologies
16ce Roland Corp.
16d5 Acromag, Inc.
0504 PMC-DX504 Reconfigurable
FPGA with LVDS I/O
0520 PMC520 Serial Communication, 232 Octal
0521 PMC521 Serial Communication, 422/485 Octal
1020 PMC-AX1020 Reconfigurable FPGA with A/D & D/A
1065 PMC-AX1065 Reconfigurable FPGA with A/D & D/A
2004 PMC-DX2004 Reconfigurable FPGA with LVDS I/O
2020 PMC-AX2020 Reconfigurable FPGA with A/D & D/A
2065 PMC-AX2065 Reconfigurable FPGA with A/D & D/A
3020 PMC-AX3020 Reconfigurable FPGA with A/D & D/A
3065 PMC-AX3065 Reconfigurable FPGA with A/D & D/A
4243 PMC424, APC424, AcPC424 Digital I/O and Counter Timer Module
4248 PMC464, APC464, AcPC464 Digital I/O and Counter Timer Module
424b PMC-DX2002 Reconfigurable FPGA with Differential I/O
4253 PMC-DX503 Reconfigurable FPGA with TTL and Differential I/O
4312 PMC-CX1002 Reconfigurable Conduction-Cooled FPGA Virtex-II with Differential I/O
4313 PMC-CX1003 Reconfigurable Conduction-Cooled FPGA Virtex-II with CMOS and Differential I/O
4322 PMC-CX2002 Reconfigurable Conduction-Cooled FPGA
Virtex-II with Differential I/O
4323 PMC-CX2003 Reconfigurable Conduction-Cooled FPGA Virtex-II with CMOS and Differential I/O
4350 PMC-DX501 Reconfigurable Digital I/O Module
4353 PMC-DX2003 Reconfigurable FPGA with TTL and Differential I/O
4357 PMC-DX502 Reconfigurable Differential I/O Module
4457 PMC730, APC730, AcPC730 Multifunction Module
464d PMC408 32-Channel Digital Input/Output Module
4850 PMC220-16 12-Bit Analog Output Module
4a42 PMC483, APC483, AcPC483 Counter Timer Module
4a50 PMC484, APC484, AcPC484 Counter Timer Module
4a56 PMC230 16-Bit Analog Output Module

4b47 PMC330, APC330, AcPC330 Analog Input Module, 16-bit A/D
4c40 PMC-LX40 Reconfigurable Virtex-4 FPGA with plug-in I/O
4c60 PMC-LX60 Reconfigurable Virtex-4 FPGA with plug-in I/O
4d4d PMC341, APC341, AcPC341 Analog Input Module, Simultaneous Sample & Hold
4d4e PMC482, APC482, AcPC482 Counter Timer Board
524d PMC-DX2001 Reconfigurable FPGA with TTL I/O
5335 PMC-SX35 Reconfigurable
Virtex-4 FPGA with plug-in I/O
5456 PMC470 48-Channel Digital Input/Output Module
16df PIKA Technologies Inc.
16e3 European Space Agency
1e0f LEON2FT Processor
16e5 Intellon Corp.
6000 INT6000 Ethernet-to-Powerline Bridge [HomePlug AV]
6300 INT6300 Ethernet-to-Powerline Bridge [HomePlug AV]
16ec U.S. Robotics
00ff USR997900 10/100 Mbps PCI Network Card
0116 USR997902 10/100/1000 Mbps PCI Network Card
2f00 USR5660A (USR265660A, USR5660A-BP) 56K PCI Faxmodem
3685 Wireless Access PCI Adapter Model 022415
16ed Sycron N. V.
1001 UMIO communication card
16f3 Jetway Information Co., Ltd.
16f4 Vweb Corp
8000 VW2010
16f6 VideoTele.com, Inc.
1702 Internet Machines Corporation (IMC)
1705 Digital First, Inc.
170b NetOctave
0100 NSP2000-SSL crypto accelerator
170c YottaYotta Inc.
Seems to be a 2nd ID for Vitesse Semiconductor
1725 Vitesse Semiconductor
7174 VSC7174 PCI/PCI-X Serial ATA Host Bus Controller
172a Accelerated Encryption
13c8 AEP SureWare Runner
1000V3
1734 Fujitsu Siemens Computer GmbH
1078 Amilo Pro v2010
1085 Celsius M450
1737 Linksys
0013 WMP54G Wireless Pci Card
0015 WMP54GS Wireless Pci Card
0029 WPG54G ver. 4 PCI Card
1032 Gigabit Network Adapter
1737 0015 EG1032 v2 Instant Gigabit Network Adapter
1737 0024 EG1032 v3 Instant Gigabit Network Adapter
1064 Gigabit Network Adapter

1737 0016 EG1064 v2 Instant Gigabit Network Adapter
ab08 21x4x DEC-Tulip compatible 10/100 Ethernet
ab09 21x4x DEC-Tulip compatible 10/100 Ethernet
173b Altima (nee Broadcom)
03e8 AC1000 Gigabit Ethernet
03e9 AC1001 Gigabit Ethernet
03ea AC9100 Gigabit Ethernet
173b 0001 AC1002
03eb AC1003 Gigabit Ethernet
1743 Peppercon AG
8139 ROL/F-100 Fast Ethernet Adapter with ROL
1749 RLX Technologies
174b PC Partner Limited
174d WellX Telecom SA
175c AudioScience Inc
175e Sanera Systems, Inc.
1775 SBS Technologies
177d Cavium Networks
1787 Hightech Information System Ltd.
also used by Struck Innovative
Systeme for joint developments
1796 Research Centre Juelich
0001 SIS1100 [Gigabit link]
0002 HOTlink
0003 Counter Timer
0004 CAMAC Controller
0005 PROFIBUS
0006 AMCC HOTlink
1797 JumpTec h, GMBH
1799 Belkin
6001 Wireless PCI Card - F5D6001
6020 Wireless PCMCIA Card - F5D6020
6060 Wireless PDA Card - F5D6060
7000 Wireless PCI Card - F5D7000
700a Wireless PCI Card - F5D7000UK
7010 BCM4306 802.11b/g Wireless Lan Controller F5D7010
179c Data Patterns
0557 DP-PCI-557 [PCI 1553B]
0566 DP-PCI-566 [Intelligent PCI 1553B]
5031 DP-CPCI-5031-Synchro Module
5121 DP-CPCI-5121-IP Carrier
5211 DP-CPCI-5211-IP Carrier
5679 AGE Display Module
17a0 Genesys Logic, Inc
8033 GL880S USB 1.1 controller
8034 GL880S USB 2.0 controller
17aa Lenovo
17af Hightech Information System Ltd.

17b3 Hawking Technologies
ab08 PN672TX 10/100 Ethernet
17b4 Indra Networks, Inc.
0011 WebEnhance 100 GZIP Compression Card
17c0 Wistron Corp.
17c2 Newisys, Inc.
17cb Airgo Networks
Inc
0001 AGN100 802.11 a/b/g True MIMO Wireless Card
0002 AGN300 802.11 a/b/g True MIMO Wireless Card
17cc NetChip Technology, Inc
2280 USB 2.0
17cf Z-Com, Inc.
17d3 Areca Technology Corp.
1110 ARC-1110 4-Port PCI-X to SATA RAID Controller
1120 ARC-1120 8-Port PCI-X to SATA RAID Controller
1130 ARC-1130 12-Port PCI-X to SATA RAID Controller
1160 ARC-1160 16-Port PCI-X to SATA RAID Controller
1210 ARC-1210 4-Port PCI-Express to SATA RAID Controller
1220 ARC-1220 8-Port PCI-Express to SATA RAID Controller
1230 ARC-1230 12-Port PCI-Express to SATA RAID Controller
1260 ARC-1260 16-Port PCI-Express to SATA RAID Controller
17d5 S2io Inc.
5831 Xframe 10 Gigabit Ethernet PCI-X
103c 12d5 PCI-X 133MHz 10GbE SR Fiber
10a9 8020 Single Port 10 Gigabit Ethernet (PCI-X, Fiber)
10a9 8024 Single Port 10 Gigabit Ethernet (PCI-X, Fiber)
5832 Xframe II 10Gbps Ethernet
10a9 8021 Single Port 10 Gigabit Ethernet II (PCI-X, Fiber)
17db Cray Inc
0101 XT Series
[Seastar] 3D Toroidal Router
17de KWorld Computer Co. Ltd.
17e4 Sectra AB
0001 KK671 Cardbus encryption board
0002 KK672 Cardbus encryption board
17e6 Entropic Communications Inc.
0010 EN2010 [c.Link] MoCA Network Controller (Coax, PCI interface)
0011 EN2010 [c.Link] MoCA Network Controller (Coax, MPEG interface)
0021 EN2210 [c.Link] MoCA Network Controller (Coax)
17ee Connect Components Ltd
17f2 Albatron Corp.
17f3 RDC Semiconductor, Inc.
6020 R6020 North Bridge
6030 R6030 ISA Bridge
6040 R6040 MAC Controller
6060 R6060 USB 1.1 Controller
6061 R6061 USB 2.0 Controller

17fe Linksys, A Division of Cisco Systems
 2120 WMP11v4 802.11b PCI card
 2220 [AirConn] INPROCOMM IPN 2220 Wireless LAN Adapter (rev 01)
  17fe 2220 WPC54G ver. 4
17ff Benq Corporation
1809 Lumanate, Inc.
1813 Ambient Technologies Inc
 4000 HaM controllerless modem
  16be 0001 V9x HAM Data Fax Modem
 4100 HaM plus Data Fax Modem
  16be 0002 V9x HAM 1394
1814 RaLink
 0101 Wireless
 PCI Adapter RT2400 / RT2460
  1043 0127 WiFi-b add-on Card
  1462 6828 PC11B2 (MS-6828) Wireless 11b PCI Card
 0200 RT2500 802.11g PCI [PC54G2]
 0201 RT2500 802.11g Cardbus/mini-PCI
  1043 130f WL-130g
  1371 001e CWC-854 Wireless-G CardBus Adapter
  1371 001f CWM-854 Wireless-G Mini PCI Adapter
  1371 0020 CWP-854 Wireless-G PCI Adapter
  1458 e381 GN-WMKG 802.11b/g Wireless CardBus Adapter
  1458 e931 GN-WIKG 802.11b/g mini-PCI Adapter
  1462 6833 Unknown 802.11g mini-PCI Adapter
  1462 6835 Wireless 11G CardBus CB54G2
  1737 0032 WMP54G 2.0 PCI Adapter
  1799 700a F5D7000 Wireless G Desktop Network Card
  1799 701a F5D7010 Wireless G Notebook Network Card
  185f 22a0 CN-WF513 Wireless Cardbus Adapter
 0301 RT2561/RT61 802.11g PCI
  1186 3c08 DWL-G630 Rev E
  1186 3c09 DWL-G510 Rev C
  13d1 abe3 miniPCI Pluscom 802.11 a/b/g
  1458 e934 GN-WP01GS
  1737 0055 WMP54G ver 4.1
 0302 RT2561/RT61 rev B 802.11g
  1186 3c08 DWL-G630 Rev E
  1186 3c09 DWL-G510 Rev C
  1462
 b834 PC54G3 Wireless 11g PCI Card
 0401 Ralink RT2600 802.11 MIMO
 e932 RT2560F 802.11 b/g PCI
1820 InfiniCon Systems Inc.
1822 Twinhan Technology Co. Ltd
 0001 Twinhan VisionPlus DVB [card=113]
 4e35 Mantis DTV PCI Bridge Controller [Ver 1.0]
182d SiteCom Europe BV

HFC-based ISDN card
3069 ISDN PCI DC-105V2
9790 WL-121 Wireless Network Adapter 100g+ [Ver.3]
182e Raza Microelectronics, Inc.
0008 XLR516 Processor
1830 Credence Systems Corporation
183b MikroM GmbH
08a7 MVC100 DVI
08a8 MVC101 SDI
08a9 MVC102 DVI+Audio
08b0 MVC200-DC
1849 ASRock Incorporation
184a Thales Computers
1851 Microtune, Inc.
1852 Anritsu Corp.
1853 SMSC Automotive Infotainment System Group
1854 LG Electronics, Inc.
185b Compro Technology, Inc.
185f Wistron NeWeb Corp.
1864 SilverBack
2110 ISNAP 2110
1867 Topspin Communications
5a44 MT23108 InfiniHost HCA
5a45 MT23108 InfiniHost HCA flash recovery
5a46 MT23108 InfiniHost HCA bridge
6278 MT25208 InfiniHost III Ex
(Tavor compatibility mode)
6282 MT25208 InfiniHost III Ex
186c Humusoft
0614 MF614 multifunction I/O card
1876 L-3 Communications
a101 VigraWATCH PCI
a102 VigraWATCH PMC
a103 Vigra I/O
187e ZyXEL Communication Corporation
3403 ZyAir G-110 802.11g
340e M-302 802.11g XtremeMIMO
1885 Avvida Systems Inc.
1888 Varisys Ltd
0301 VMFX1 FPGA PMC module
0601 VSM2 dual PMC carrier
0710 VS14x series PowerPC PCI board
0720 VS24x series PowerPC PCI board
188a Ample Communications, Inc
1890 Egenera, Inc.
1894 KNC One
1896 B&B Electronics Manufacturing Company, Inc.
18a1 Astute Networks Inc.

18ac DViCO Corporation
 d500 FusionHDTV 5
 d800 FusionHDTV 3 Gold
 d810 FusionHDTV 3 Gold-Q
 d820 FusionHDTV 3 Gold-T
18b8 Ammasso
 b001 AMSO 1100 iWARP/RDMA Gigabit Ethernet Coprocessor
18bc Info-Tek Corp.
18c3 Micronas Semiconductor Holding AG
Nee Octigabay System
18c8 Cray Inc
18c9 ARVOO Engineering BV
18ca XGI Technology Inc. (eXtreme Graphics Innovation)
 0020 Volari
 Z7
 0040 Volari V3XT/V5/V8
 0047 Volari 8300 (chip: XP10, codename: XG47)
18d2 Sitecom
Sitecom HFC-S based ISDN controller card DC-105v2
 3069 DC-105v2 ISDN controller
18dd Artimi Inc
 4c6f Artimi RTMI-100 UWB adapter
18e6 MPL AG
 0001 OSCI [Octal Serial Communication Interface]
18ec Cesnet, z.s.p.o.
 c006 COMBO6
  18ec d001 COMBO-4MTX
  18ec d002 COMBO-4SFP
  18ec d003 COMBO-4SFPRO
  18ec d004 COMBO-2XFP
 c045 COMBO6E
 c050 COMBO-PTM
 c058 COMBO6X
  18ec d001 COMBO-4MTX
  18ec d002 COMBO-4SFP
  18ec d003 COMBO-4SFPRO
  18ec d004 COMBO-2XFP
18f6 NextIO
 1000 [Nexsis] Switch Virtual P2P PCIe Bridge
 1050 [Nexsis] Switch Virtual P2P PCI Bridge
 2000 [Nexsis] Switch Integrated Mgmt. Endpoint
18f7 Commtech, Inc.
 0001 Fastcom ESCC-PCI-335
 0002 Fastcom 422/4-PCI-335
 0004 Fastcom 422/2-PCI-335
 0005 Fastcom IGESCC-PCI-ISO/1
 000a Fastcom 232/4-PCI-335
18fb Resilience Corporation

1904 Hangzhou Silan Microelectronics Co., Ltd.
 8139 RTL8139D [Realtek]
 PCI 10/100BaseTX ethernet adaptor
1923 Sangoma Technologies Corp.
 0040 A200/Remora FXO/FXS Analog AFT card
 0100 A104d QUAD T1/E1 AFT card
 0300 A101 single-port T1/E1
 0400 A104u Quad T1/E1 AFT
nee Level 5 Networks
1924 Solarflare Communications
192e TransDimension
1931 Option N.V.
 000c Qualcomm MSM6275 UMTS chip
1942 ClearSpeed Technology plc
 e511 CSX600 Advance Accelerator Board
194a DapTechnology B.V.
 1111 FireSpy3850
 1112 FireSpy450b
 1113 FireSpy450bT
 1114 FireSpy850
 1115 FireSpy850bT
1957 Freescale Semiconductor Inc
 0012 MPC8548 [PowerQUICC III]
 0080 MPC8349E
 0081 MPC8349
 0082 MPC8347E TBGA
 0083 MPC8347 TBGA
 0084 MPC8347E PBGA
 0085 MPC8347 PBGA
 0086 MPC8343E
 0087 MPC8343
1958 Faster Technology, LLC.
1959 PA Semi, Inc
1966 Orad Hi-Tec Systems
 1975 DVG64 family
1969 Attansic Technology Corp.
 1048 L1 Gigabit Ethernet Adapter
 2048 L2 100 Mbit Ethernet Adapter
196a Sensory Networks Inc.
 0101 NodalCore C-1000 Content Classification
 Accelerator
 0102 NodalCore C-2000 Content Classification Accelerator
 0105 NodalCore C-3000 Content Classification Accelerator
196d Club-3D BV
1971 AGEIA Technologies, Inc.
 1011 Physics Processing Unit [PhysX]
  1043 0001 PhysX P1
197b JMicron Technologies, Inc.

2360 JMicron 20360/20363 AHCI Controller
2361 JMB361 AHCI/IDE
1462 7235 P965 Neo MS-7235 mainboard
2363 JMicron 20360/20363 AHCI Controller
2365 JMB365 AHCI/IDE
2366 JMB366 AHCI/IDE
2368 JMB368 IDE controller
1982 Distant Early Warning Communications Inc
1600 OX16C954 HOST-A
16ff OX16C954 HOST-B
1989 Montilio Inc.
0001 RapidFile Bridge
8001 RapidFile
1993 Innominate Security Technologies AG
199a Pulse-LINK, Inc.
19a2 ServerEngines LLC
0200 BladeEngine 10Gb PCI-E iSCSI adapter
0201 BladeEngine 10Gb PCI-E Network Adpater
19a8 DAQDATA GmbH
19ac Kasten Chase Applied Research
0001 ACA2400 Crypto Accelerator
19ae Progeny Systems Corporation
0520 4135 HFT Interface Controller
19d4
Quixant Limited
19de Pico Computing
19e2 Vector Informatik GmbH
19e7 NET (Network Equipment Technologies)
1001 STIX DSP Card
1002 STIX - 1 Port T1/E1 Card
1003 STIX - 2 Port T1/E1 Card
1004 STIX - 4 Port T1/E1 Card
1005 STIX - 4 Port FXS Card
1a03 ASPEED Technology, Inc.
2000 AST2000
1a07 Kvaser AB
0006 CAN interface PC104+ HS/HS
0007 CAN interface PCIcanx II HS or HS/HS
1a08 Sierra semiconductor
0000 SC15064
1a1d GFaI e.V.
1a17 Meta Networks MTP-1G IDPS NIC
1a22 Ambric Inc.
1a29 Fortinet, Inc.
1a51 Hectronic AB
1a5d Celoxica
1a71 XenSource, Inc.
1a73 Violin Memory, Inc

0001 Mozart [Memory Appliance 1010]
1a77 Lightfleet Corporation
1a78 Virident Systems Inc.
1a8c Verigy Pte. Ltd.
1100 E8001-66443 PCI Express CIC
1ab9 Espia Srl
1b13 Jaton Corp
1c1c Symphony
0001 82C101
1d44 DPT
a400 PM2x24/PM3224
1de1 Tekram Technology Co.,Ltd.
0391 TRM-S1040
2020 DC-390
690c 690c
dc29 DC290
1fc0 Tumsan Oy
0300 E2200 Dual E1/Rawpipe Card
1fc1
PathScale, Inc
000d InfiniPath HT-400
0010 InfiniPath PE-800
1fce Cognio Inc.
0001 Spectrum Analyzer PC Card (SAgE)
2000 Smart Link Ltd.
2001 Temporal Research Ltd
2003 Smart Link Ltd.
2004 Smart Link Ltd.
21c3 21st Century Computer Corp.
(Probably only the Mobile Phone Division)
22b8 Motorola, Inc.
2348 Racore
2010 8142 100VG/AnyLAN
2646 Kingston Technologies
270b Xantel Corporation
270f Chaintech Computer Co. Ltd
2711 AVID Technology Inc.
2a15 3D Vision(???)
3000 Hansol Electronics Inc.
3142 Post Impression Systems.
3388 Hint Corp
0013 HiNT HC4 PCI to ISDN bridge, Multimedia audio controller
0014 HiNT HC4 PCI to ISDN bridge, Network controller
0020 HB6 Universal PCI-PCI bridge (transparent mode)
0021 HB6 Universal PCI-PCI bridge (non-transparent mode)
1775 c200 C2K CompactPCI interface bridge
1775 ce90 CE9
4c53 1050 CT7 mainboard

4c53 1080 CT8 mainboard
4c53 1090 Cx9 mainboard
4c53 10a0 CA3/CR3 mainboard
4c53 3010 PPCI mezzanine
(32-bit PMC)
4c53 3011 PPCI mezzanine (64-bit PMC)
4c53 4000 PMCCARR1 carrier board
0022 HiNT HB4 PCI-PCI Bridge (PCI6150)
0026 HB2 PCI-PCI Bridge
101a E.Band [AudioTrak Inca88]
101b E.Band [AudioTrak Inca88]
8011 VXPro II Chipset
3388 8011 VXPro II Chipset CPU to PCI Bridge
8012 VXPro II Chipset
3388 8012 VXPro II Chipset PCI to ISA Bridge
8013 VXPro II IDE
3388 8013 VXPro II Chipset EIDE Controller
3411 Quantum Designs (H.K.) Inc
3513 ARCOM Control Systems Ltd
3842 eVga.com. Corp.
c370 e-GeFORCE 6600 256 DDR PCI-e
38ef 4Links
3d3d 3DLabs
0001 GLINT 300SX
0002 GLINT 500TX
0000 0000 GLoria L
0003 GLINT Delta
0000 0000 GLoria XL
0004 Permedia
0005 Permedia
0006 GLINT MX
0000 0000 GLoria XL
1048 0a42 GLoria XXL
0007 3D Extreme
0008 GLINT Gamma G1
1048 0a42 GLoria XXL
0009 Permedia II 2D+3D
1040 0011 AccelStar II
1048 0a42 GLoria XXL
13e9 1000 6221L-4U
3d3d 0100 AccelStar II 3D Accelerator
3d3d 0111 Permedia
3:16
3d3d 0114 Santa Ana
3d3d 0116 Oxygen GVX1
3d3d 0119 Scirocco
3d3d 0120 Santa Ana PCL
3d3d 0125 Oxygen VX1

3d3d 0127 Permedia3 Create!
000a GLINT R3
3d3d 0121 Oxygen VX1
000c GLINT R3 [Oxygen VX1]
3d3d 0144 Oxygen VX1-4X AGP [Permedia 4]
000d GLint R4 rev A
0011 GLint R4 rev B
0012 GLint R5 rev A
0013 GLint R5 rev B
0020 VP10 visual processor
0022 VP10 visual processor
0024 VP9 visual processor
0100 Permedia II 2D+3D
07a1 Wildcat III 6210
07a2 Sun XVR-500 Graphics Accelerator
07a3 Wildcat IV 7210
1004 Permedia
3d04 Permedia
ffff Glint VGA
4005 Avance Logic Inc.
0300 ALS300 PCI Audio Device
0308 ALS300+ PCI Audio Device
0309 PCI Input Controller
1064 ALG-2064
2064 ALG-2064i
2128 ALG-2364A GUI Accelerator
2301 ALG-2301
2302 ALG-2302
2303 AVG-2302 GUI Accelerator
2364 ALG-2364A
2464 ALG-2464
2501 ALG-2564A/25128A
4000 ALS4000 Audio Chipset
4005 4000 ALS4000 Audio Chipset
4710 ALC200/200P
4033
Addtron Technology Co, Inc.
1360 RTL8139 Ethernet
4040 NetXen Incorporated
0001 NXB-10GXSR 10 Gigabit Ethernet PCIe Adapter with SR-XFP optical interface
0002 NXB-10GCX4 10 Gigabit Ethernet PCIe Adapter with CX4 copper interface
0003 NXB-4GCU Quad Gigabit Ethernet PCIe Adapter with 1000-BASE-T interface
0004 BladeCenter-H 10 Gigabit Ethernet High Speed Daughter Card
4143 Digital Equipment Corp
4144 Alpha Data
0044 ADM-XRCIIPro
416c Aladdin Knowledge Systems
0100 AladdinCARD

0200 CPC
4321 Tata Power Strategic Electronics Division
434e CAST Navigation LLC
4444 Internext Compression Inc
0016 iTVC16 (CX23416) MPEG-2 Encoder
0070 0003 WinTV PVR 250
0070 0009 WinTV PVR 150
0070 0801 WinTV PVR 150
0070 0807 WinTV PVR 150
0070 4001 WinTV PVR 250
0070 4009 WinTV PVR 250
0070 4801 WinTV PVR 250
0070 4803 WinTV PVR 250
0070 8003 WinTV PVR 150
0070 8801 WinTV PVR 150
0070 c801 WinTV PVR 150
0070 e807 WinTV PVR 500 (1st unit)
0070 e817
WinTV PVR 500 (2nd unit)
0070 ff92 WiNTV PVR-550
0270 0801 WinTV PVR 150
10fc d038 GV-MVP/RX2W (1st unit)
10fc d039 GV-MVP/RX2W (2nd unit)
12ab fff3 MPG600
12ab ffff MPG600
1461 c019 UltraTV 1500 MCE
9005 0092 VideOh! AVC-2010
9005 0093 VideOh! AVC-2410
0803 iTVC15 MPEG-2 Encoder
0070 4000 WinTV PVR-350
0070 4001 WinTV PVR-250
0070 4800 WinTV PVR-350 (V1)
12ab 0000 MPG160
1461 a3ce M179
1461 a3cf M179
4468 Bridgeport machines
4594 Cogetec Informatique Inc
45fb Baldor Electric Company
4680 Umax Computer Corp
4843 Hercules Computer Technology Inc
4916 RedCreek Communications Inc
1960 RedCreek PCI adapter
4943 Growth Networks
494f ACCES I/O Products, Inc.
10e8 LPCI-COM-8SM
4978 Axil Computer Inc
4a14 NetVin
5000 NV5000SC

4a14 5000 RT8029-Based Ethernet Adapter
4b10 Buslogic Inc.
4c48 LUNG HWA Electronics
4c53 SBS Technologies
0000 PLUSTEST device
4c53 3000 PLUSTEST card (PC104+)
4c53 3001 PLUSTEST card (PMC)
0001
PLUSTEST-MM device
4c53 3002 PLUSTEST-MM card (PMC)
4ca1 Seanix Technology Inc
4d51 MediaQ Inc.
0200 MQ-200
4d54 Microtechnica Co Ltd
4d56 MATRIX VISION GmbH
0000 Altera Cyclone II CameraLink Frame Grabber [mvHYPERION-CLe]
4ddc ILC Data Device Corp
0100 DD-42924I5-300 (ARINC 429 Data Bus)
0801 BU-65570I1 MIL-STD-1553 Test and Simulation
0802 BU-65570I2 MIL-STD-1553 Test and Simulation
0811 BU-65572I1 MIL-STD-1553 Test and Simulation
0812 BU-65572I2 MIL-STD-1553 Test and Simulation
0881 BU-65570T1 MIL-STD-1553 Test and Simulation
0882 BU-65570T2 MIL-STD-1553 Test and Simulation
0891 BU-65572T1 MIL-STD-1553 Test and Simulation
0892 BU-65572T2 MIL-STD-1553 Test and Simulation
0901 BU-65565C1 MIL-STD-1553 Data Bus
0902 BU-65565C2 MIL-STD-1553 Data Bus
0903 BU-65565C3 MIL-STD-1553 Data Bus
0904 BU-65565C4 MIL-STD-1553 Data Bus
0b01 BU-65569I1 MIL-STD-1553 Data Bus
0b02 BU-65569I2 MIL-STD-1553 Data Bus
0b03 BU-65569I3 MIL-STD-1553 Data Bus
0b04
BU-65569I4 MIL-STD-1553 Data Bus
5046 GemTek Technology Corporation
1001 PCI Radio
5053 Voyetra Technologies
2010 Daytona Audio Adapter
5136 S S Technologies
5143 Qualcomm Inc
5145 Ensoniq (Old)
3031 Concert AudioPCI
5168 Animation Technologies Inc.
0300 FlyDVB-S
0301 FlyDVB-T
5301 Alliance Semiconductor Corp.
0001 ProMotion aT3D

5333 S3 Inc.
 0551 Plato/PX (system)
 5631 86c325 [ViRGE]
 8800 86c866 [Vision 866]
 8801 86c964 [Vision 964]
 8810 86c764_0 [Trio 32 vers 0]
 8811 86c764/765 [Trio32/64/64V+]
 8812 86cM65 [Aurora64V+]
 8813 86c764_3 [Trio 32/64 vers 3]
 8814 86c767 [Trio 64UV+]
 8815 86cM65 [Aurora 128]
 883d 86c988 [ViRGE/VX]
 8870 FireGL
 8880 86c868 [Vision 868 VRAM] vers 0
 8881 86c868 [Vision 868 VRAM] vers 1
 8882 86c868 [Vision 868 VRAM] vers 2
 8883 86c868 [Vision 868 VRAM] vers 3
 88b0 86c928 [Vision 928 VRAM] vers 0
 88b1 86c928 [Vision 928 VRAM] vers 1
 88b2 86c928 [Vision 928 VRAM] vers 2
 88b3 86c928 [Vision 928 VRAM]
 vers 3
 88c0 86c864 [Vision 864 DRAM] vers 0
 88c1 86c864 [Vision 864 DRAM] vers 1
 88c2 86c864 [Vision 864-P DRAM] vers 2
 88c3 86c864 [Vision 864-P DRAM] vers 3
 88d0 86c964 [Vision 964 VRAM] vers 0
 88d1 86c964 [Vision 964 VRAM] vers 1
 88d2 86c964 [Vision 964-P VRAM] vers 2
 88d3 86c964 [Vision 964-P VRAM] vers 3
 88f0 86c968 [Vision 968 VRAM] rev 0
 88f1 86c968 [Vision 968 VRAM] rev 1
 88f2 86c968 [Vision 968 VRAM] rev 2
 88f3 86c968 [Vision 968 VRAM] rev 3
 8900 86c755 [Trio 64V2/DX]
  5333 8900 86C775 Trio64V2/DX
 8901 86c775/86c785 [Trio 64V2/DX or /GX]
  5333 8901 86C775 Trio64V2/DX, 86C785 Trio64V2/GX
 8902 Plato/PX
 8903 Trio 3D business multimedia
 8904 Trio 64 3D
  1014 00db Integrated Trio3D
  4843 314a Terminator 128/3D GLH
  5333 8904 86C365 Trio3D AGP
 8905 Trio 64V+ family
 8906 Trio 64V+ family
 8907 Trio 64V+ family
 8908 Trio 64V+ family

8909 Trio 64V+ family
890a Trio 64V+ family
890b Trio 64V+ family
890c Trio 64V+ family
890d
Trio 64V+ family
890e Trio 64V+ family
890f Trio 64V+ family
8a01 ViRGE/DX or /GX
 0e11 b032 ViRGE/GX
 10b4 1617 Nitro 3D
 10b4 1717 Nitro 3D
 5333 8a01 ViRGE/DX
8a10 ViRGE/GX2
 1092 8a10 Stealth 3D 4000
8a13 86c368 [Trio 3D/2X]
 5333 8a13 Trio3D/2X
8a20 86c794 [Savage 3D]
 5333 8a20 86C391 Savage3D
8a21 86c390 [Savage 3D/MV]
 5333 8a21 86C390 Savage3D/MV
8a22 Savage 4
 1033 8068 Savage 4
 1033 8069 Savage 4
 1033 8110 Savage 4 LT
 105d 0018 SR9 8Mb SDRAM
 105d 002a SR9 Pro 16Mb SDRAM
 105d 003a SR9 Pro 32Mb SDRAM
 105d 092f SR9 Pro+ 16Mb SGRAM
 1092 4207 Stealth III S540
 1092 4800 Stealth III S540
 1092 4807 SpeedStar A90
 1092 4808 Stealth III S540
 1092 4809 Stealth III S540
 1092 480e Stealth III S540
 1092 4904 Stealth III S520
 1092 4905 SpeedStar A200
 1092 4a09 Stealth III S540
 1092 4a0b Stealth III S540 Xtreme
 1092 4a0f Stealth III S540
 1092 4e01 Stealth III S540
 1102 101d 3d Blaster Savage 4
 1102 101e
 3d Blaster Savage 4
 5333 8100 86C394-397 Savage4 SDRAM 100
 5333 8110 86C394-397 Savage4 SDRAM 110
 5333 8125 86C394-397 Savage4 SDRAM 125
 5333 8143 86C394-397 Savage4 SDRAM 143

5333 8a22 86C394-397 Savage4
5333 8a2e 86C394-397 Savage4 32bit
5333 9125 86C394-397 Savage4 SGRAM 125
5333 9143 86C394-397 Savage4 SGRAM 143
8a23 Savage 4
8a25 ProSavage PM133
8a26 ProSavage KM133
8c00 ViRGE/M3
8c01 ViRGE/MX
1179 0001 ViRGE/MX
8c02 ViRGE/MX+
8c03 ViRGE/MX+MV
8c10 86C270-294 Savage/MX-MV
8c11 82C270-294 Savage/MX
8c12 86C270-294 Savage/IX-MV
1014 017f Thinkpad T20/T22
1179 0001 86C584 SuperSavage/IXC Toshiba
8c13 86C270-294 Savage/IX
1179 0001 Magnia Z310
8c22 SuperSavage MX/128
8c24 SuperSavage MX/64
8c26 SuperSavage MX/64C
8c2a SuperSavage IX/128 SDR
8c2b SuperSavage IX/128 DDR
8c2c SuperSavage IX/64 SDR
8c2d SuperSavage IX/64 DDR
8c2e SuperSavage IX/C SDR
1014 01fc ThinkPad T23 (2647-4MG)
8c2f SuperSavage IX/C
DDR
8d01 86C380 [ProSavageDDR K4M266]
8d02 VT8636A [ProSavage KN133] AGP4X VGA Controller (TwisterK)
8d03 VT8751 [ProSavageDDR P4M266]
8d04 VT8375 [ProSavage8 KM266/KL266]
8e48 Chrome S27 PCIE
5333 0130 Chrome S27 256M DDR2
9102 86C410 Savage 2000
1092 5932 Viper II Z200
1092 5934 Viper II Z200
1092 5952 Viper II Z200
1092 5954 Viper II Z200
1092 5a35 Viper II Z200
1092 5a37 Viper II Z200
1092 5a55 Viper II Z200
1092 5a57 Viper II Z200
ca00 SonicVibes
544c Teralogic Inc
0350 TL880-based HDTV/ATSC tuner

5455 Technische University Berlin
 4458 S5933
5456 GoTView
5519 Cnet Technologies, Inc.
5544 Dunord Technologies
 0001 I-30xx Scanner Interface
5555 Genroco, Inc
 0003 TURBOstor HFP-832 [HiPPI NIC]
5654 VoiceTronix Pty Ltd
 3132 OpenSwitch12
5700 Netpower
5851 Exacq Technologies
5853 XenSource, Inc.
 0001 Xen Platform Device
6356 UltraStor
6374 c't Magazin fuer Computertechnik
 6773 GPPCI
6409 Logitec Corp.
6666 Decision Computer
 International Co.
 0001 PCCOM4
 0002 PCCOM8
 0004 PCCOM2
 0101 PCI 8255/8254 I/O Card
7063 pcHDTV
 2000 HD-2000
 3000 HD-3000
 5500 HD5500 HDTV
7604 O.N. Electronic Co Ltd.
7bde MIDAC Corporation
7fed PowerTV
8008 Quancom Electronic GmbH
 0010 WDOG1 [PCI-Watchdog 1]
 0011 PWDOG2 [PCI-Watchdog 2]
Wrong ID used in subsystem ID of AsusTek PCI-USB2 PCI card.
807d Asustek Computer, Inc.
8086 Intel Corporation
 0007 82379AB
 0008 Extended Express System Support Controller
 0039 21145 Fast Ethernet
 0122 82437FX
 0309 80303 I/O Processor PCI-to-PCI Bridge
 030d 80312 I/O Companion Chip PCI-to-PCI Bridge
 0326 6700/6702PXH I/OxAPIC Interrupt Controller A
 0327 6700PXH I/OxAPIC Interrupt Controller B
 0329 6700PXH PCI Express-to-PCI Bridge A
 032a 6700PXH PCI Express-to-PCI Bridge B
 032c 6702PXH PCI Express-to-PCI Bridge A

0330 80332 [Dobson] I/O processor (A-Segment Bridge)
0331 80332 [Dobson] I/O processor (A-Segment IOAPIC)
0332 80332 [Dobson] I/O processor
(B-Segment Bridge)
0333 80332 [Dobson] I/O processor (B-Segment IOAPIC)
0334 80332 [Dobson] I/O processor (ATU)
0335 80331 [Lindsay] I/O processor (PCI-X Bridge)
0336 80331 [Lindsay] I/O processor (ATU)
0340 41210 [Lanai] Serial to Parallel PCI Bridge (A-Segment Bridge)
0341 41210 [Lanai] Serial to Parallel PCI Bridge (B-Segment Bridge)
0370 80333 Segment-A PCI Express-to-PCI Express Bridge
0371 80333 A-Bus IOAPIC
0372 80333 Segment-B PCI Express-to-PCI Express Bridge
0373 80333 B-Bus IOAPIC
0374 80333 Address Translation Unit
0482 82375EB/SB PCI to EISA Bridge
0483 82424TX/ZX [Saturn] CPU to PCI bridge
0484 82378ZB/IB, 82379AB (SIO, SIO.A) PCI to ISA Bridge
0486 82425EX/ZX [Aries] PCIset with ISA bridge
04a3 82434LX/NX [Mercury/Neptune] Processor to PCI bridge
04d0 82437FX [Triton FX]
0500 E8870 Processor bus control
0501 E8870 Memory controller
and registers common to both SPs
0502 E8870 Scalability Port 0
and global performance monitoring
0503
E8870 Scalability Port 1
0510 E8870IO Hub Interface Port 0 registers (8-bit compatibility port)
0511 E8870IO Hub Interface Port 1 registers
0512 E8870IO Hub Interface Port 2 registers
0513 E8870IO Hub Interface Port 3 registers
0514 E8870IO Hub Interface Port 4 registers
0515 E8870IO General SIOH registers
0516 E8870IO RAS registers
0530 E8870SP Scalability Port 0 registers
0531 E8870SP Scalability Port 1 registers
0532 E8870SP Scalability Port 2 registers
0533 E8870SP Scalability Port 3 registers
0534 E8870SP Scalability Port 4 registers
0535 E8870SP Scalability Port 5 registers
(bi-interleave 0) and global registers that are neither per-port nor per-interleave
0536 E8870SP Interleave registers 0 and 1
(bi-interleave 1)
0537 E8870SP Interleave registers 2 and 3
0600 RAID Controller
8086 0136 SRCU31L
8086 01af SRCZCR

8086 01c1 ICP Vortex GDT8546RZ
8086 01f7 SCRU32
uninitialized SRCU32 RAID Controller
061f 80303 I/O Processor
0960
80960RP [i960 RP Microprocessor/Bridge]
0962 80960RM [i960RM Bridge]
0964 80960RP [i960 RP Microprocessor/Bridge]
1000 82542 Gigabit Ethernet Controller
0e11 b0df NC6132 Gigabit Ethernet Adapter (1000-SX)
0e11 b0e0 NC6133 Gigabit Ethernet Adapter (1000-LX)
0e11 b123 NC6134 Gigabit Ethernet Adapter (1000-LX)
1014 0119 Netfinity Gigabit Ethernet SX Adapter
8086 1000 PRO/1000 Gigabit Server Adapter
1001 82543GC Gigabit Ethernet Controller (Fiber)
0e11 004a NC6136 Gigabit Server Adapter
1014 01ea Netfinity Gigabit Ethernet SX Adapter
8086 1002 PRO/1000 F Server Adapter
8086 1003 PRO/1000 F Server Adapter
1002 Pro 100 LAN+Modem 56 Cardbus II
8086 200e Pro 100 LAN+Modem 56 Cardbus II
8086 2013 Pro 100 SR Mobile Combo Adapter
8086 2017 Pro 100 S Combo Mobile Adapter
1004 82543GC Gigabit Ethernet Controller (Copper)
0e11 0049 NC7132 Gigabit Upgrade Module
0e11 b1a4 NC7131 Gigabit Server Adapter
1014 10f2 Gigabit Ethernet Server
Adapter
8086 1004 PRO/1000 T Server Adapter
8086 2004 PRO/1000 T Server Adapter
1008 82544EI Gigabit Ethernet Controller (Copper)
1014 0269 iSeries 1000/100/10 Ethernet Adapter
1028 011b PowerEdge 2550
1028 011c PRO/1000 XT Network Connection
8086 1107 PRO/1000 XT Server Adapter
8086 2107 PRO/1000 XT Server Adapter
8086 2110 PRO/1000 XT Desktop Adapter
8086 3108 PRO/1000 XT Network Connection
1009 82544EI Gigabit Ethernet Controller (Fiber)
1014 0268 iSeries Gigabit Ethernet Adapter
8086 1109 PRO/1000 XF Server Adapter
8086 2109 PRO/1000 XF Server Adapter
100a 82540EM Gigabit Ethernet Controller
100c 82544GC Gigabit Ethernet Controller (Copper)
8086 1112 PRO/1000 T Desktop Adapter
8086 2112 PRO/1000 T Desktop Adapter
100d 82544GC Gigabit Ethernet Controller (LOM)
1028 0123 PRO/1000 XT Network Connection

1079 891f 82544GC Based Network Connection
4c53 1080 CT8 mainboard
8086 110d 82544GC Based Network Connection
100e 82540EM
Gigabit Ethernet Controller
1014 0265 PRO/1000 MT Network Connection
1014 0267 PRO/1000 MT Network Connection
1014 026a PRO/1000 MT Network Connection
1028 002e Optiplex GX260
1028 0134 PowerEdge 600SC
1028 0151 PRO/1000 MT Network Connection
107b 8920 PRO/1000 MT Desktop Adapter
8086 001e PRO/1000 MT Desktop Adapter
8086 002e PRO/1000 MT Desktop Adapter
8086 1376 PRO/1000 GT Desktop Adapter
8086 1476 PRO/1000 GT Desktop Adapter
100f 82545EM Gigabit Ethernet Controller (Copper)
1014 0269 iSeries 1000/100/10 Ethernet Adapter
1014 028e PRO/1000 MT Network Connection
8086 1000 PRO/1000 MT Network Connection
8086 1001 PRO/1000 MT Server Adapter
1010 82546EB Gigabit Ethernet Controller (Copper)
0e11 00db NC7170 Gigabit Server Adapter
1014 027c PRO/1000 MT Dual Port Network Adapter
18fb 7872 REStlink-X
1fc1 0026 Niagara 2260 Bypass Card
4c53 1080 CT8 mainboard
4c53 10a0 CA3/CR3 mainboard
8086 1011 PRO/1000 MT Dual Port
Server Adapter
8086 1012 PRO/1000 MT Dual Port Server Adapter
8086 101a PRO/1000 MT Dual Port Network Connection
8086 3424 SE7501HG2 Mainboard
1011 82545EM Gigabit Ethernet Controller (Fiber)
1014 0268 iSeries Gigabit Ethernet Adapter
8086 1002 PRO/1000 MF Server Adapter
8086 1003 PRO/1000 MF Server Adapter (LX)
1012 82546EB Gigabit Ethernet Controller (Fiber)
0e11 00dc NC6170 Gigabit Server Adapter
8086 1012 PRO/1000 MF Dual Port Server Adapter
1013 82541EI Gigabit Ethernet Controller
8086 0013 PRO/1000 MT Network Connection
8086 1013 PRO/1000 MT Network Connection
8086 1113 PRO/1000 MT Desktop Adapter
1014 82541ER Gigabit Ethernet Controller
8086 0014 PRO/1000 MT Desktop Connection
8086 1014 PRO/1000 MT Network Connection
1015 82540EM Gigabit Ethernet Controller (LOM)

8086 1015 PRO/1000 MT Mobile Connection
1016 82540EP Gigabit Ethernet Controller (Mobile)
1014 052c PRO/1000 MT Mobile Connection
1179 0001 PRO/1000 MT Mobile
Connection
8086 1016 PRO/1000 MT Mobile Connection
1017 82540EP Gigabit Ethernet Controller
8086 1017 PR0/1000 MT Desktop Connection
1018 82541EI Gigabit Ethernet Controller
8086 1018 PRO/1000 MT Mobile Connection
1019 82547EI Gigabit Ethernet Controller
1458 1019 GA-8IPE1000 Pro2 motherboard (865PE)
1458 e000 Intel Gigabit Ethernet (Kenai II)
8086 1019 PRO/1000 CT Desktop Connection
8086 301f D865PERL mainboard
8086 302c Intel 82865G Mainboard (D865GBF)
8086 3427 S875WP1-E mainboard
101a 82547EI Gigabit Ethernet Controller (Mobile)
8086 101a PRO/1000 CT Mobile Connection
101d 82546EB Gigabit Ethernet Controller
8086 1000 PRO/1000 MT Quad Port Server Adapter
101e 82540EP Gigabit Ethernet Controller (Mobile)
1014 0549 PRO/1000 MT Mobile Connection
1179 0001 PRO/1000 MT Mobile Connection
8086 101e PRO/1000 MT Mobile Connection
1026 82545GM Gigabit Ethernet Controller
1028 0169 Precision 470
8086 1000 PRO/1000 MT Server Connection
8086
1001 PRO/1000 MT Server Adapter
8086 1002 PRO/1000 MT Server Adapter
8086 1003 PRO/1000 GT Server Adapter
8086 1026 PRO/1000 MT Server Connection
1027 82545GM Gigabit Ethernet Controller
103c 3103 NC310F PCI-X Gigabit Server Adapter
8086 1001 PRO/1000 MF Server Adapter(LX)
8086 1002 PRO/1000 MF Server Adapter(LX)
8086 1003 PRO/1000 MF Server Adapter(LX)
8086 1027 PRO/1000 MF Server Adapter
1028 82545GM Gigabit Ethernet Controller
8086 1028 PRO/1000 MB Server Connection
1029 82559 Ethernet Controller
1030 82559 InBusiness 10/100
1031 82801CAM (ICH3) PRO/100 VE (LOM) Ethernet Controller
1014 0209 ThinkPad A/T/X Series
104d 80e7 Vaio PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
104d 813c Vaio PCG-GRV616G
107b 5350 EtherExpress PRO/100 VE

1179 0001 EtherExpress PRO/100 VE
144d c000 EtherExpress PRO/100 VE
144d c001 EtherExpress PRO/100 VE
144d c003 EtherExpress PRO/100 VE
144d c006 vpr Matrix 170B4
1032 82801CAM
(ICH3) PRO/100 VE Ethernet Controller
1033 82801CAM (ICH3) PRO/100 VM (LOM) Ethernet Controller
1034 82801CAM (ICH3) PRO/100 VM Ethernet Controller
1035 82801CAM (ICH3)/82562EH (LOM) Ethernet Controller
1036 82801CAM (ICH3) 82562EH Ethernet Controller
1037 82801CAM (ICH3) Chipset Ethernet Controller
1038 82801CAM (ICH3) PRO/100 VM (KM) Ethernet Controller
0e11 0098 Evo N600c
1039 82801DB PRO/100 VE (LOM) Ethernet Controller
1014 0267 NetVista A30p
103a 82801DB PRO/100 VE (CNR) Ethernet Controller
103b 82801DB PRO/100 VM (LOM) Ethernet Controller
103c 82801DB PRO/100 VM (CNR) Ethernet Controller
103d 82801DB PRO/100 VE (MOB) Ethernet Controller
1014 0522 Thinkpad R40 model 2681
8086 103d 82562EZ 10/100 Ethernet Controller
103e 82801DB PRO/100 VM (MOB) Ethernet Controller
1040 536EP Data Fax Modem
16be 1040 V.9X DSP Data Fax Modem
1043 PRO/Wireless LAN 2100 3B Mini PCI Adapter
103c 08b0 tc1100 tablet
8086 2522 Samsung P30 integrated WLAN
8086
2527 MIM2000/Centrino
8086 2581 Toshiba Satellite M10
1048 PRO/10GbE LR Server Adapter
8086 a01f PRO/10GbE LR Server Adapter
8086 a11f PRO/10GbE LR Server Adapter
1049 82566MM Gigabit Network Connection
104a 82566DM Gigabit Network Connection
104b 82566DC Gigabit Network Connection
104c 82562V 10/100 Network Connection
104d 82566MC Gigabit Network Connection
1050 82562EZ 10/100 Ethernet Controller
1462 728c 865PE Neo2 (MS-6728)
1462 758c MS-6758 (875P Neo)
8086 3020 D865PERL mainboard
8086 302f Desktop Board D865GBF
8086 3427 S875WP1-E mainboard
1051 82801EB/ER (ICH5/ICH5R) integrated LAN Controller
1052 PRO/100 VM Network Connection
1053 PRO/100 VM Network Connection

1054 PRO/100 VE Network Connection
1055 PRO/100 VM Network Connection
1056 PRO/100 VE Network Connection
1057 PRO/100 VE Network Connection
1059 82551QM Ethernet Controller
105b 82546GB Gigabit Ethernet Controller (Copper)
105e 82571EB Gigabit Ethernet Controller
 103c
7044 NC360T PCI Express Dual Port Gigabit Server Adapter
 1775 1100 CR11/VR11 Single Board Computer
 1775 6003 Telum GE-QT
 8086 005e PRO/1000 PT Dual Port Server Connection
 8086 105e PRO/1000 PT Dual Port Network Connection
 8086 115e PRO/1000 PT Dual Port Server Adapter
 8086 116e PRO/1000 PT Dual Port Server Adapter
 8086 125e PRO/1000 PT Dual Port Server Adapter
 8086 135e PRO/1000 PT Dual Port Server Adapter
105f 82571EB Gigabit Ethernet Controller
 8086 115f PRO/1000 PF Dual Port Server Adapter
 8086 116f PRO/1000 PF Dual Port Server Adapter
 8086 125f PRO/1000 PF Dual Port Server Adapter
 8086 135f PRO/1000 PF Dual Port Server Adapter
1060 82571EB Gigabit Ethernet Controller
 8086 0060 PRO/1000 PB Dual Port Server Connection
 8086 1060 PRO/1000 PB Dual Port Server Connection
1064 82562ET/EZ/GT/GZ - PRO/100 VE (LOM) Ethernet Controller
 1043 80f8 P5GD1-VW Mainboard
1065 82562ET/EZ/GT/GZ - PRO/100 VE Ethernet Controller
1066
 82562 EM/EX/GX - PRO/100 VM (LOM) Ethernet Controller
1067 82562 EM/EX/GX - PRO/100 VM Ethernet Controller
1068 82562ET/EZ/GT/GZ - PRO/100 VE (LOM) Ethernet Controller Mobile
1069 82562EM/EX/GX - PRO/100 VM (LOM) Ethernet Controller Mobile
106a 82562G - PRO/100 VE (LOM) Ethernet Controller
106b 82562G - PRO/100 VE Ethernet Controller Mobile
1075 82547GI Gigabit Ethernet Controller
 1028 0165 PowerEdge 750
 8086 0075 PRO/1000 CT Network Connection
 8086 1075 PRO/1000 CT Network Connection
1076 82541GI Gigabit Ethernet Controller
 1028 0165 PowerEdge 750
 1028 019a PowerEdge SC1425
 8086 0076 PRO/1000 MT Network Connection
 8086 1076 PRO/1000 MT Network Connection
 8086 1176 PRO/1000 MT Desktop Adapter
 8086 1276 PRO/1000 MT Network Adapter
1077 82541GI Gigabit Ethernet Controller
 1179 0001 PRO/1000 MT Mobile Connection

8086 0077 PRO/1000 MT Mobile Connection
8086 1077 PRO/1000 MT Mobile Connection
1078 82541ER Gigabit Ethernet Controller
8086
1078 82541ER-based Network Connection
1079 82546GB Gigabit Ethernet Controller
103c 12a6 Dual Port 1000Base-T [A9900A]
103c 12cf Core Dual Port 1000Base-T [AB352A]
1775 10d0 V5D Single Board Computer Gigabit Ethernet
1775 ce90 CE9
1fc1 0027 Niagara 2261 Failover NIC
4c53 1090 Cx9 / Vx9 mainboard
4c53 10b0 CL9 mainboard
8086 0079 PRO/1000 MT Dual Port Network Connection
8086 1079 PRO/1000 MT Dual Port Network Connection
8086 1179 PRO/1000 MT Dual Port Server Adapter
8086 117a PRO/1000 MT Dual Port Server Adapter
107a 82546GB Gigabit Ethernet Controller
103c 12a8 Dual Port 1000base-SX [A9899A]
8086 107a PRO/1000 MF Dual Port Server Adapter
8086 127a PRO/1000 MF Dual Port Server Adapter
107b 82546GB Gigabit Ethernet Controller
8086 007b PRO/1000 MB Dual Port Server Connection
8086 107b PRO/1000 MB Dual Port Server Connection
107c 82541PI Gigabit Ethernet Controller
8086 1376 PRO/1000 GT Desktop Adapter
8086 1476 PRO/1000 GT
Desktop Adapter
107d 82572EI Gigabit Ethernet Controller (Copper)
8086 1082 PRO/1000 PT Server Adapter
8086 1092 PRO/1000 PT Server Adapter
107e 82572EI Gigabit Ethernet Controller (Fiber)
8086 1084 PRO/1000 PF Server Adapter
8086 1094 PRO/1000 PF Server Adapter
107f 82572EI Gigabit Ethernet Controller
1080 FA82537EP 56K V.92 Data/Fax Modem PCI
1081 631xESB/632xESB LAN Controller Copper
1082 631xESB/632xESB LAN Controller fiber
1083 631xESB/632xESB LAN Controller SERDES
1084 631xESB/632xESB IDE Redirection
1085 631xESB/632xESB Serial Port Redirection
1086 631xESB/632xESB IPMI/KCS0
1087 631xESB/632xESB UHCI Redirection
1089 631xESB/632xESB BT
108a 82546GB Gigabit Ethernet Controller
8086 108a PRO/1000 P Dual Port Server Adapter
8086 118a PRO/1000 P Dual Port Server Adapter
108b 82573V Gigabit Ethernet Controller (Copper)

108c 82573E Gigabit Ethernet Controller (Copper)
108e 82573E KCS (Active Management)
108f Active Management Technology
- SOL
1091 PRO/100 VM Network Connection
1092 PRO/100 VE Network Connection
1093 PRO/100 VM Network Connection
1094 PRO/100 VE Network Connection
1095 PRO/100 VE Network Connection
1096 80003ES2LAN Gigabit Ethernet Controller (Copper)
1097 631xESB/632xESB DPT LAN Controller (Fiber)
1098 80003ES2LAN Gigabit Ethernet Controller (Serdes)
1099 82546GB Gigabit Ethernet Controller (Copper)
8086 1099 PRO/1000 GT Quad Port Server Adapter
109a 82573L Gigabit Ethernet Controller
1179 ff10 PRO/1000 PL
17aa 2001 ThinkPad T60
17aa 207e Thinkpad X60s
8086 109a PRO/1000 PL Network Connection
109b 82546GB PRO/1000 GF Quad Port Server Adapter
109e 82597EX 10GbE Ethernet Controller
8086 a01f PRO/10GbE CX4 Server Adapter
8086 a11f PRO/10GbE CX4 Server Adapter
10a0 82571EB PRO/1000 AT Quad Port Bypass Adapter
10a1 82571EB PRO/1000 AF Quad Port Bypass Adapter
10a4 82571EB Gigabit Ethernet Controller
8086 10a4 PRO/1000 PT Quad Port Server Adapter
8086
11a4 PRO/1000 PT Quad Port Server Adapter
10a5 82571EB PRO/1000 PF Quad Port Server Adapter
10b0 82573L PRO/1000 PL Network Connection
10b2 82573V PRO/1000 PM Network Connection
10b3 82573E PRO/1000 PM Network Connection
10b4 82573L PRO/1000 PL Network Connection
10b5 82546GB Gigabit Ethernet Controller (Copper)
103c 3109 NC340T PCI-X Quad-port Gigabit Server Adapter
8086 1099 PRO/1000 GT Quad Port Server Adapter
8086 1199 PRO/1000 GT Quad Port Server Adapter
10b9 82572EI Gigabit Ethernet Controller (Copper)
8086 1083 PRO/1000 PT Desktop Adapter
8086 1093 PRO/1000 PT Desktop Adapter
10ba 80003ES2LAN Gigabit Ethernet Controller (Copper)
10bb 80003ES2LAN Gigabit Ethernet Controller (Serdes)
10bc 82571EB Gigabit Ethernet Controller (Copper)
8086 10bc PRO/1000 PT Quad Port LP Server Adapter
8086 11bc PRO/1000 PT Quad Port LP Server Adapter
10bd 82566DM-2 Gigabit Network Connection
10c0 82562V-2 10/100 Network Connection

10c2 82562G-2 10/100
Network Connection
10c3 82562GT-2 10/100 Network Connection
10c4 82562GT 10/100 Network Connection
10c5 82562G 10/100 Network Connection
1107 PRO/1000 MF Server Adapter (LX)
1130 82815 815 Chipset Host Bridge and Memory Controller Hub
 1025 1016 Travelmate 612 TX
 1043 8027 TUSL2-C Mainboard
 104d 80df Vaio PCG-FX403
 8086 4532 D815EEA2 mainboard
 8086 4557 D815EGEW Mainboard
1131 82815 815 Chipset AGP Bridge
1132 82815 CGC [Chipset Graphics Controller]
 1025 1016 Travelmate 612 TX
 104d 80df Vaio PCG-FX403
 8086 4532 D815EEA2 Mainboard
 8086 4541 D815EEA Motherboard
 8086 4557 D815EGEW Mainboard
1161 82806AA PCI64 Hub Advanced Programmable Interrupt Controller
 8086 1161 82806AA PCI64 Hub APIC
1162 Xscale 80200 Big Endian Companion Chip
1200 IXP1200 Network Processor
 172a 0000 AEP SSL Accelerator
1209 8255xER/82551IT Fast Ethernet Controller
 4c53 1050 CT7 mainboard
 4c53 1051 CE7 mainboard
 4c53 1070 PC6 mainboard
1221 82092AA
PCI to PCMCIA Bridge
1222 82092AA IDE Controller
1223 SAA7116
1225 82452KX/GX [Orion]
1226 82596 PRO/10 PCI
1227 82865 EtherExpress PRO/100A
1228 82556 EtherExpress PRO/100 Smart
the revision field differentiates between them (1-3 is 82557, 4-5 is 82558, 6-8 is 82559, 9 is 82559ER)
1229 82557/8/9 [Ethernet Pro 100]
 0e11 3001 82559 Fast Ethernet LOM with Alert on LAN*
 0e11 3002 82559 Fast Ethernet LOM with Alert on LAN*
 0e11 3003 82559 Fast Ethernet LOM with Alert on LAN*
 0e11 3004 82559 Fast Ethernet LOM with Alert on LAN*
 0e11 3005 82559 Fast Ethernet LOM with Alert on LAN*
 0e11 3006 82559 Fast Ethernet LOM with Alert on LAN*
 0e11 3007 82559 Fast Ethernet LOM with Alert on LAN*
 0e11 b01e NC3120 Fast Ethernet NIC
 0e11 b01f NC3122 Fast Ethernet NIC (dual port)
 0e11 b02f NC1120 Ethernet NIC

0e11 b04a Netelligent 10/100TX NIC with Wake on LAN
0e11 b0c6 NC3161 Fast Ethernet NIC (embedded, WOL)
0e11 b0c7 NC3160 Fast Ethernet NIC (embedded)
0e11
b0d7 NC3121 Fast Ethernet NIC (WOL)
0e11 b0dd NC3131 Fast Ethernet NIC (dual port)
0e11 b0de NC3132 Fast Ethernet Module (dual port)
0e11 b0e1 NC3133 Fast Ethernet Module (100-FX)
0e11 b134 NC3163 Fast Ethernet NIC (embedded, WOL)
0e11 b13c NC3162 Fast Ethernet NIC (embedded)
0e11 b144 NC3123 Fast Ethernet NIC (WOL)
0e11 b163 NC3134 Fast Ethernet NIC (dual port)
0e11 b164 NC3135 Fast Ethernet Upgrade Module (dual port)
0e11 b1a4 NC7131 Gigabit Server Adapter
1014 005c 82558B Ethernet Pro 10/100
1014 01bc 82559 Fast Ethernet LAN On Motherboard
1014 01f1 10/100 Ethernet Server Adapter
1014 01f2 10/100 Ethernet Server Adapter
1014 0207 Ethernet Pro/100 S
1014 0232 10/100 Dual Port Server Adapter
1014 023a ThinkPad R30
1014 105c Netfinity 10/100
1014 2205 ThinkPad A22p
1014 305c 10/100 EtherJet Management Adapter
1014 405c 10/100 EtherJet Adapter with Alert on LAN
1014 505c 10/100 EtherJet Secure Management Adapter
1014
605c 10/100 EtherJet Secure Management Adapter
1014 705c 10/100 Netfinity 10/100 Ethernet Security Adapter
1014 805c 10/100 Netfinity 10/100 Ethernet Security Adapter
1028 009b PowerEdge 2500/2550
1028 00ce PowerEdge 1400
1033 8000 PC-9821X-B06
1033 8016 PK-UG-X006
1033 801f PK-UG-X006
1033 8026 PK-UG-X006
1033 8063 82559-based Fast Ethernet Adapter
1033 8064 82559-based Fast Ethernet Adapter
103c 10c0 NetServer 10/100TX
103c 10c3 NetServer 10/100TX
103c 10ca NetServer 10/100TX
103c 10cb NetServer 10/100TX
103c 10e3 NetServer 10/100TX
103c 10e4 NetServer 10/100TX
103c 1200 NetServer 10/100TX
108e 10cf EtherExpress PRO/100(B)
10c3 1100 SmartEther100 SC1100
10cf 1115 8255x-based Ethernet Adapter (10/100)

10cf 1143 8255x-based Ethernet Adapter (10/100)
110a 008b 82551QM Fast Ethernet Multifuction PCI/CardBus Controller
1179 0001 8255x-based Ethernet Adapter (10/100)
1179 0002 PCI FastEther LAN on Docker
1179
0003 8255x-based Fast Ethernet
1259 2560 AT-2560 100
1259 2561 AT-2560 100 FX Ethernet Adapter
1266 0001 NE10/100 Adapter
13e9 1000 6221L-4U
144d 2501 SEM-2000 MiniPCI LAN Adapter
144d 2502 SEM-2100IL MiniPCI LAN Adapter
1668 1100 EtherExpress PRO/100B (TX) (MiniPCI Ethernet+Modem)
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 1080 CT8 mainboard
4c53 10e0 PSL09 PrPMC
8086 0001 EtherExpress PRO/100B (TX)
8086 0002 EtherExpress PRO/100B (T4)
8086 0003 EtherExpress PRO/10+
8086 0004 EtherExpress PRO/100 WfM
8086 0005 82557 10/100
8086 0006 82557 10/100 with Wake on LAN
8086 0007 82558 10/100 Adapter
8086 0008 82558 10/100 with Wake on LAN
8086 0009 82558B PRO/100+ PCI (TP)
8086 000a EtherExpress PRO/100+ Management Adapter
8086 000b EtherExpress PRO/100+
8086 000c EtherExpress PRO/100+ Management Adapter
8086 000d EtherExpress PRO/100+ Alert On LAN II* Adapter
8086 000e EtherExpress PRO/100+ Management
Adapter with Alert On LAN*
8086 000f EtherExpress PRO/100 Desktop Adapter
8086 0010 EtherExpress PRO/100 S Management Adapter
8086 0011 EtherExpress PRO/100 S Management Adapter
8086 0012 EtherExpress PRO/100 S Advanced Management Adapter (D)
8086 0013 EtherExpress PRO/100 S Advanced Management Adapter (E)
8086 0030 EtherExpress PRO/100 Management Adapter with Alert On LAN* GC
8086 0031 EtherExpress PRO/100 Desktop Adapter
8086 0040 EtherExpress PRO/100 S Desktop Adapter
8086 0041 EtherExpress PRO/100 S Desktop Adapter
8086 0042 EtherExpress PRO/100 Desktop Adapter
8086 0050 EtherExpress PRO/100 S Desktop Adapter
8086 1009 EtherExpress PRO/100+ Server Adapter
8086 100c EtherExpress PRO/100+ Server Adapter (PILA8470B)
8086 1012 EtherExpress PRO/100 S Server Adapter (D)
8086 1013 EtherExpress PRO/100 S Server Adapter (E)
8086 1015 EtherExpress PRO/100 S Dual Port Server Adapter

8086 1017 EtherExpress PRO/100+ Dual Port Server Adapter
8086
1030 EtherExpress PRO/100+ Management Adapter with Alert On LAN* G Server
8086 1040 EtherExpress PRO/100 S Server Adapter
8086 1041 EtherExpress PRO/100 S Server Adapter
8086 1042 EtherExpress PRO/100 Server Adapter
8086 1050 EtherExpress PRO/100 S Server Adapter
8086 1051 EtherExpress PRO/100 Server Adapter
8086 1052 EtherExpress PRO/100 Server Adapter
8086 10f0 EtherExpress PRO/100+ Dual Port Adapter
8086 2009 EtherExpress PRO/100 S Mobile Adapter
8086 200d EtherExpress PRO/100 Cardbus
8086 200e EtherExpress PRO/100 LAN+V90 Cardbus Modem
8086 200f EtherExpress PRO/100 SR Mobile Adapter
8086 2010 EtherExpress PRO/100 S Mobile Combo Adapter
8086 2013 EtherExpress PRO/100 SR Mobile Combo Adapter
8086 2016 EtherExpress PRO/100 S Mobile Adapter
8086 2017 EtherExpress PRO/100 S Combo Mobile Adapter
8086 2018 EtherExpress PRO/100 SR Mobile Adapter
8086 2019 EtherExpress PRO/100 SR Combo Mobile Adapter
8086 2101 EtherExpress
PRO/100 P Mobile Adapter
8086 2102 EtherExpress PRO/100 SP Mobile Adapter
8086 2103 EtherExpress PRO/100 SP Mobile Adapter
8086 2104 EtherExpress PRO/100 SP Mobile Adapter
8086 2105 EtherExpress PRO/100 SP Mobile Adapter
8086 2106 EtherExpress PRO/100 P Mobile Adapter
8086 2107 EtherExpress PRO/100 Network Connection
8086 2108 EtherExpress PRO/100 Network Connection
8086 2200 EtherExpress PRO/100 P Mobile Combo Adapter
8086 2201 EtherExpress PRO/100 P Mobile Combo Adapter
8086 2202 EtherExpress PRO/100 SP Mobile Combo Adapter
8086 2203 EtherExpress PRO/100+ MiniPCI
8086 2204 EtherExpress PRO/100+ MiniPCI
8086 2205 EtherExpress PRO/100 SP Mobile Combo Adapter
8086 2206 EtherExpress PRO/100 SP Mobile Combo Adapter
8086 2207 EtherExpress PRO/100 SP Mobile Combo Adapter
8086 2208 EtherExpress PRO/100 P Mobile Combo Adapter
8086 2402 EtherExpress PRO/100+ MiniPCI
8086 2407 EtherExpress PRO/100+ MiniPCI
8086 2408 EtherExpress PRO/100+
MiniPCI
8086 2409 EtherExpress PRO/100+ MiniPCI
8086 240f EtherExpress PRO/100+ MiniPCI
8086 2410 EtherExpress PRO/100+ MiniPCI
8086 2411 EtherExpress PRO/100+ MiniPCI
8086 2412 EtherExpress PRO/100+ MiniPCI
8086 2413 EtherExpress PRO/100+ MiniPCI

8086 3000 82559 Fast Ethernet LAN on Motherboard
8086 3001 82559 Fast Ethernet LOM with Basic Alert on LAN*
8086 3002 82559 Fast Ethernet LOM with Alert on LAN II*
8086 3006 EtherExpress PRO/100 S Network Connection
8086 3007 EtherExpress PRO/100 S Network Connection
8086 3008 EtherExpress PRO/100 Network Connection
8086 3010 EtherExpress PRO/100 S Network Connection
8086 3011 EtherExpress PRO/100 S Network Connection
8086 3012 EtherExpress PRO/100 Network Connection
8086 301a S845WD1-E mainboard
8086 3411 SDS2 Mainboard
122d 430FX - 82437FX TSC [Triton I]
122e 82371FB PIIX ISA [Triton I]
1230 82371FB PIIX IDE [Triton I]
1231 DSVD Modem
1234 430MX - 82371MX Mobile PCI I/O IDE Xcelerator
(MPIIX)
1235 430MX - 82437MX Mob. System Ctrlr (MTSC) & 82438MX Data Path (MTDP)
1237 440FX - 82441FX PMC [Natoma]
1239 82371FB PIIX IDE Interface
123b 82380PB PCI to PCI Docking Bridge
123c 82380AB (MISA) Mobile PCI-to-ISA Bridge
123d 683053 Programmable Interrupt Device
123e 82466GX (IHPC) Integrated Hot-Plug Controller (hidden mode)
123f 82466GX Integrated Hot-Plug Controller (IHPC)
1240 82752 (752) AGP Graphics Accelerator
124b 82380FB (MPCI2) Mobile Docking Controller
1250 430HX - 82439HX TXC [Triton II]
1360 82806AA PCI64 Hub PCI Bridge
1361 82806AA PCI64 Hub Controller (HRes)
8086 1361 82806AA PCI64 Hub Controller (HRes)
8086 8000 82806AA PCI64 Hub Controller (HRes)
1460 82870P2 P64H2 Hub PCI Bridge
1461 82870P2 P64H2 I/OxAPIC
15d9 3480 P4DP6
4c53 1090 Cx9/Vx9 mainboard
1462 82870P2 P64H2 Hot Plug Controller
1960 80960RP [i960RP Microprocessor]
101e 0431 MegaRAID 431 RAID Controller
101e 0438 MegaRAID 438 Ultra2 LVD RAID Controller
101e
0466 MegaRAID 466 Express Plus RAID Controller
101e 0467 MegaRAID 467 Enterprise 1500 RAID Controller
101e 0490 MegaRAID 490 Express 300 RAID Controller
101e 0762 MegaRAID 762 Express RAID Controller
101e 09a0 PowerEdge Expandable RAID Controller 2/SC
1028 0467 PowerEdge Expandable RAID Controller 2/DC
1028 1111 PowerEdge Expandable RAID Controller 2/SC

103c 03a2 MegaRAID
103c 10c6 MegaRAID 438, NetRAID-3Si
103c 10c7 MegaRAID T5, Integrated NetRAID
103c 10cc MegaRAID, Integrated NetRAID
103c 10cd NetRAID-1Si
105a 0000 SuperTrak
105a 2168 SuperTrak Pro
105a 5168 SuperTrak66/100
1111 1111 MegaRAID 466, PowerEdge Expandable RAID Controller 2/SC
1111 1112 PowerEdge Expandable RAID Controller 2/SC
113c 03a2 MegaRAID
e4bf 1010 CG1-RADIO
e4bf 1020 CU2-QUARTET
e4bf 1040 CU1-CHORUS
e4bf 3100 CX1-BAND
1962 80960RM [i960RM Microprocessor]
105a 0000 SuperTrak SX6000 I2O CPU
1a21 82840 840 (Carmel) Chipset Host
Bridge (Hub A)
1a23 82840 840 (Carmel) Chipset AGP Bridge
1a24 82840 840 (Carmel) Chipset PCI Bridge (Hub B)
1a30 82845 845 (Brookdale) Chipset Host Bridge
1028 010e Optiplex GX240
1a31 82845 845 (Brookdale) Chipset AGP Bridge
1a38 5000 Series Chipset DMA Engine
1a48 PRO/10GbE SR Server Adapter
1b48 82597EX 10GbE Ethernet Controller
8086 a01f PRO/10GbE LR Server Adapter
8086 a11f PRO/10GbE LR Server Adapter
2410 82801AA ISA Bridge (LPC)
2411 82801AA IDE Controller
2412 82801AA USB Controller
2413 82801AA SMBus Controller
2415 82801AA AC'97 Audio Controller
1028 0095 Precision Workstation 220 Integrated Digital Audio
1028 00b4 OptiPlex GX110
110a 0051 Activy 2xx
11d4 0040 SoundMAX Integrated Digital Audio
11d4 0048 SoundMAX Integrated Digital Audio
11d4 5340 SoundMAX Integrated Digital Audio
1734 1025 Activy 3xx
2416 82801AA AC'97 Modem Controller
2418 82801AA PCI Bridge
2420 82801AB ISA Bridge (LPC)
2421 82801AB IDE Controller
2422
82801AB USB Controller
2423 82801AB SMBus Controller

2425 82801AB AC'97 Audio Controller
11d4 0040 SoundMAX Integrated Digital Audio
11d4 0048 SoundMAX Integrated Digital Audio
2426 82801AB AC'97 Modem Controller
2428 82801AB PCI Bridge
2440 82801BA ISA Bridge (LPC)
8086 5744 S845WD1-E
2442 82801BA/BAM USB Controller #1
1014 01c6 Netvista A40/A40p
1025 1016 Travelmate 612 TX
1028 00c7 Dimension 8100
1028 010e Optiplex GX240
1043 8027 TUSL2-C Mainboard
104d 80df Vaio PCG-FX403
147b 0507 TH7II-RAID
8086 4532 D815EEA2 mainboard
8086 4557 D815EGEW Mainboard
8086 5744 S845WD1-E mainboard
2443 82801BA/BAM SMBus Controller
1014 01c6 Netvista A40/A40p
1025 1016 Travelmate 612 TX
1028 00c7 Dimension 8100
1028 010e Optiplex GX240
1043 8027 TUSL2-C Mainboard
104d 80df Vaio PCG-FX403
147b 0507 TH7II-RAID
8086 4532 D815EEA2 mainboard
8086 4557 D815EGEW Mainboard
8086 5744 S845WD1-E mainboard
2444 82801BA/BAM
USB Controller #1
1025 1016 Travelmate 612 TX
1028 00c7 Dimension 8100
1028 010e Optiplex GX240
1043 8027 TUSL2-C Mainboard
104d 80df Vaio PCG-FX403
147b 0507 TH7II-RAID
8086 4532 D815EEA2 mainboard
8086 5744 S845WD1-E mainboard
2445 82801BA/BAM AC'97 Audio Controller
0e11 000b Compaq Deskpro EN Audio
0e11 0088 Evo D500
1014 01c6 Netvista A40/A40p
1025 1016 Travelmate 612 TX
104d 80df Vaio PCG-FX403
1462 3370 STAC9721 AC
147b 0507 TH7II-RAID
8086 4557 D815EGEW Mainboard

2446 82801BA/BAM AC'97 Modem Controller
 1025 1016 Travelmate 612 TX
 104d 80df Vaio PCG-FX403
2448 82801 Mobile PCI Bridge
 103c 099c NX6110/NC6120
 144d c00c P30 notebook
 1734 1055 Amilo M1420
2449 82801BA/BAM/CA/CAM Ethernet Controller
 0e11 0012 EtherExpress PRO/100 VM
 0e11 0091 EtherExpress PRO/100 VE
 1014 01ce EtherExpress PRO/100 VE
 1014 01dc EtherExpress PRO/100 VE
 1014 01eb EtherExpress PRO/100 VE
 1014 01ec EtherExpress PRO/100
VE
 1014 0202 EtherExpress PRO/100 VE
 1014 0205 EtherExpress PRO/100 VE
 1014 0217 EtherExpress PRO/100 VE
 1014 0234 EtherExpress PRO/100 VE
 1014 023d EtherExpress PRO/100 VE
 1014 0244 EtherExpress PRO/100 VE
 1014 0245 EtherExpress PRO/100 VE
 1014 0265 PRO/100 VE Desktop Connection
 1014 0267 PRO/100 VE Desktop Connection
 1014 026a PRO/100 VE Desktop Connection
 109f 315d EtherExpress PRO/100 VE
 109f 3181 EtherExpress PRO/100 VE
 1179 ff01 PRO/100 VE Network Connection
 1186 7801 EtherExpress PRO/100 VE
 144d 2602 HomePNA 1M CNR
 8086 3010 EtherExpress PRO/100 VE
 8086 3011 EtherExpress PRO/100 VM
 8086 3012 82562EH based Phoneline
 8086 3013 EtherExpress PRO/100 VE
 8086 3014 EtherExpress PRO/100 VM
 8086 3015 82562EH based Phoneline
 8086 3016 EtherExpress PRO/100 P Mobile Combo
 8086 3017 EtherExpress PRO/100 P Mobile
 8086 3018 EtherExpress PRO/100
244a 82801BAM IDE U100 Controller
 1025 1016 Travelmate 612TX
 104d 80df
 Vaio PCG-FX403
244b 82801BA IDE U100 Controller
 1014 01c6 Netvista A40/A40p
 1028 00c7 Dimension 8100
 1028 010e Optiplex GX240
 1043 8027 TUSL2-C Mainboard

147b 0507 TH7II-RAID
8086 4532 D815EEA2 mainboard
8086 4557 D815EGEW Mainboard
8086 5744 S845WD1-E mainboard
244c 82801BAM ISA Bridge (LPC)
244e 82801 PCI Bridge
1014 0267 NetVista A30p
2450 82801E ISA Bridge (LPC)
2452 82801E USB Controller
2453 82801E SMBus Controller
2459 82801E Ethernet Controller 0
245b 82801E IDE U100 Controller
245d 82801E Ethernet Controller 1
245e 82801E PCI Bridge
2480 82801CA LPC Interface Controller
2482 82801CA/CAM USB Controller #1
0e11 0030 Evo N600c
1014 0220 ThinkPad A/T/X Series
104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
15d9 3480 P4DP6
8086 1958 vpr Matrix 170B4
8086 3424 SE7501HG2 Mainboard
8086 4541 Latitude C640
2483 82801CA/CAM SMBus Controller
1014 0220 ThinkPad A/T/X Series
104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
15d9
3480 P4DP6
8086 1958 vpr Matrix 170B4
2484 82801CA/CAM USB Controller #2
0e11 0030 Evo N600c
1014 0220 ThinkPad A/T/X Series
104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
15d9 3480 P4DP6
8086 1958 vpr Matrix 170B4
2485 82801CA/CAM AC'97 Audio Controller
1013 5959 Crystal WMD Audio Codec
1014 0222 ThinkPad T23 (2647-4MG) or A30/A30p (2652/2653)
1014 0508 ThinkPad T30
1014 051c ThinkPad A/T/X Series
1043 1583 L3C (SPDIF)
1043 1623 L2B (no SPDIF)
1043 1643 L3F
104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
144d c006 vpr Matrix 170B4
2486 82801CA/CAM AC'97 Modem Controller
1014 0223 ThinkPad A/T/X Series
1014 0503 ThinkPad R31 2656BBG

1014 051a ThinkPad A/T/X Series
101f 1025 620 Series
104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
134d 4c21 Dell Inspiron 2100 internal modem
144d 2115 vpr Matrix 170B4 internal modem
14f1 5421 MD56ORD
V.92 MDC Modem
2487 82801CA/CAM USB Controller #3
0e11 0030 Evo N600c
1014 0220 ThinkPad A/T/X Series
104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
15d9 3480 P4DP6
8086 1958 vpr Matrix 170B4
248a 82801CAM IDE U100 Controller
0e11 0030 Evo N600c
1014 0220 ThinkPad A/T/X Series
104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
8086 1958 vpr Matrix 170B4
8086 4541 Latitude C640
248b 82801CA Ultra ATA Storage Controller
15d9 3480 P4DP6
248c 82801CAM ISA Bridge (LPC)
24c0 82801DB/DBL (ICH4/ICH4-L) LPC Interface Bridge
1014 0267 NetVista A30p
1462 5800 845PE Max (MS-6580)
24c1 82801DBL (ICH4-L) IDE Controller
24c2 82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M) USB UHCI Controller #1
1014 0267 NetVista A30p
1014 052d Thinkpad R50e model 1634
1025 005a TravelMate 290
1028 0126 Optiplex GX260
1028 0163 Latitude D505
1028 0196 Inspiron 5160
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
103c 08b0 tc1100
tablet
1071 8160 MIM2000
144d c00c P30/P35 notebook
1462 5800 845PE Max (MS-6580)
1509 2990 Averatec 5110H laptop
1734 1004 D1451 Mainboard (SCENIC N300, i845GV)
1734 1055 Amilo M1420
4c53 1090 Cx9 / Vx9 mainboard
8086 24c2 Latitude X300
8086 4541 Latitude D400
e4bf 0cc9 CC9-SAMBA
e4bf 0cd2 CD2-BEBOP

24c3 82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M) SMBus Controller
 1014 0267 NetVista A30p
 1014 052d Thinkpad R50e model 1634
 1025 005a TravelMate 290
 1028 0126 Optiplex GX260
 1028 014f Latitude X300
 103c 088c NC8000 laptop
 103c 0890 NC6000 laptop
 103c 08b0 tc1100 tablet
 1071 8160 MIM2000
 144d c00c P30/P35 notebook
 1458 24c2 GA-8PE667 Ultra
 1462 5800 845PE Max (MS-6580)
 1734 1004 D1451 Mainboard (SCENIC N300, i845GV)
 1734 1055 Amilo M1420
 4c53 1090 Cx9 / Vx9 mainboard
 e4bf 0cc9 CC9-SAMBA
 e4bf 0cd2 CD2-BEBOP
24c4 82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M) USB UHCI Controller #2
 1014 0267 NetVista A30p
 1014 052d
 Thinkpad R50e model 1634
 1025 005a TravelMate 290
 1028 0126 Optiplex GX260
 1028 0163 Latitude D505
 1028 0196 Inspiron 5160
 103c 088c NC8000 laptop
 103c 0890 NC6000 laptop
 103c 08b0 tc1100 tablet
 1071 8160 MIM2000
 144d c00c P30/P35 notebook
 1462 5800 845PE Max (MS-6580)
 1509 2990 Averatec 5110H
 1734 1004 D1451 Mainboard (SCENIC N300, i845GV)
 4c53 1090 Cx9 / Vx9 mainboard
 8086 24c2 Latitude X300
 8086 4541 Latitude D400
 e4bf 0cc9 CC9-SAMBA
 e4bf 0cd2 CD2-BEBOP
24c5 82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M) AC'97 Audio Controller
 0e11 00b8 Analog Devices Inc. codec [SoundMAX]
 1014 0267 NetVista A30p
 1014 0537 Thinkpad T41
 1014 055f Thinkpad R50e model 1634
 1025 005a TravelMate 290
 1028 0139 Latitude D400
 1028 014f Latitude X300
 1028 0163 Latitude D505

1028 0196 Inspiron 5160
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
103c 08b0 tc1100 tablet
1071 8160 MIM2000
144d c00c P30/P35 notebook
1458 a002
GA-8PE667 Ultra
1462 5800 845PE Max (MS-6580)
1734 1005 D1451 (SCENIC N300, i845GV) Sigmatel STAC9750T
1734 1055 Amilo M1420
8086 24c5 Dell Dimension 2400
24c6 82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M) AC'97 Modem Controller
1014 0524 Thinkpad T41
1014 0559 Thinkpad R50e model 1634
1025 003c Aspire 2001WLCi (Compal CL50 motherboard) implementation
1025 005a TravelMate 290
1028 0196 Inspiron 5160
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
103c 08b0 tc1100 tablet
1071 8160 MIM2000
144d c00c P30/P35 notebook
24c7 82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M) USB UHCI Controller #3
1014 0267 NetVista A30p
1014 052d Thinkpad R50e model 1634
1025 005a TravelMate 290
1028 0126 Optiplex GX260
1028 0163 Latitude D505
1028 0196 Inspiron 5160
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
103c 08b0 tc1100 tablet
1071 8160 MIM2000
144d c00c P30/P35 notebook
1462 5800 845PE Max (MS-6580)
1509 2990 Averatec 5110H
1734 1004
D1451 Mainboard (SCENIC N300, i845GV)
4c53 1090 Cx9 / Vx9 mainboard
8086 24c2 Latitude X300
8086 4541 Latitude D400
e4bf 0cc9 CC9-SAMBA
e4bf 0cd2 CD2-BEBOP
24ca 82801DBM (ICH4-M) IDE Controller
1014 052d Thinkpad R50e model 1634
1025 005a TravelMate 290
1028 014f Latitude X300

1028 0163 Latitude D505
1028 0196 Inspiron 5160
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
103c 08b0 tc1100 tablet
1071 8160 MIM2000
144d c00c P30/P35 notebook
1734 1055 Amilo M1420
8086 4541 Latitude D400
24cb 82801DB (ICH4) IDE Controller
1014 0267 NetVista A30p
1028 0126 Optiplex GX260
1458 24c2 GA-8PE667 Ultra
1462 5800 845PE Max (MS-6580)
1734 1004 D1451 Mainboard (SCENIC N300, i845GV)
4c53 1090 Cx9 / Vx9 mainboard
e4bf 0cc9 CC9-SAMBA
e4bf 0cd2 CD2-BEBOP
24cc 82801DBM (ICH4-M) LPC Interface Bridge
144d c00c P30 notebook
1734 1055 Amilo M1420
24cd 82801DB/DBM (ICH4/ICH4-M) USB2 EHCI Controller
1014 0267 NetVista
A30p
1014 052e Thinkpad R50e model 1634
1025 005a TravelMate 290
1028 011d Latitude D600
1028 0126 Optiplex GX260
1028 0139 Latitude D400
1028 0163 Latitude D505
1028 0196 Inspiron 5160
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
103c 08b0 tc1100 tablet
1071 8160 MIM2000
1179 ff00 Satellite 2430
144d c00c P30/P35 notebook
1462 3981 845PE Max (MS-6580)
1509 1968 Averatec 5110H
1734 1004 D1451 Mainboard (SCENIC N300, i845GV)
1734 1055 Amilo M1420
4c53 1090 Cx9 / Vx9 mainboard
8086 24c2 Latitude X300
e4bf 0cc9 CC9-SAMBA
e4bf 0cd2 CD2-BEBOP
24d0 82801EB/ER (ICH5/ICH5R) LPC Interface Bridge
24d1 82801EB (ICH5) SATA Controller
1028 0169 Precision 470

1028 019a PowerEdge SC1425
103c 12bc d530 CMT (DG746A)
1043 80a6 P4P800 SE Mainboard
1458 24d1 GA-8IPE1000 Pro2 motherboard (865PE)
1462 7280 865PE Neo2 (MS-6728)
1565 5200 P4TSV Motherboard (865G)
15d9 4580 P4SCE Mainboard
8086 3427 S875WP1-E mainboard
8086
4246 Desktop Board D865GBF
8086 4c43 Desktop Board D865GLC
8086 524c D865PERL mainboard
24d2 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #1
1014 02dd eServer xSeries server mainboard
1014 02ed eServer xSeries server mainboard
1028 0169 Precision 470
1028 0183 PowerEdge 1800
1028 019a PowerEdge SC1425
103c 006a NX9500
103c 12bc d530 CMT (DG746A)
1043 80a6 P5P800-MX Mainboard
1458 24d2 GA-8IPE1000/8KNXP motherboard
1462 7280 865PE Neo2 (MS-6728)
1565 3101 P4TSV Motherboard (865G)
15d9 4580 P4SCE Mainboard
1734 101c Primergy RX300 S2
8086 3427 S875WP1-E mainboard
8086 4246 Desktop Board D865GBF
8086 4c43 Desktop Board D865GLC
8086 524c D865PERL mainboard
24d3 82801EB/ER (ICH5/ICH5R) SMBus Controller
1014 02dd eServer xSeries server mainboard
1014 02ed eServer xSeries server mainboard
1028 0156 Precision 360
1028 0169 Precision 470
103c 12bc d330 uT
1043 80a6 P4P800 Mainboard
1458 24d2 GA-8IPE1000
Pro2 motherboard (865PE)
1462 7280 865PE Neo2 (MS-6728)
1565 3101 P4TSV Motherboard (865G)
15d9 4580 P4SCE Mainboard
1734 101c Primergy RX300 S2
8086 3427 S875WP1-E mainboard
8086 4246 Desktop Board D865GBF
8086 4c43 Desktop Board D865GLC
8086 524c D865PERL mainboard
24d4 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #2

1014 02dd eServer xSeries server mainboard
1014 02ed eServer xSeries server mainboard
1028 0169 Precision 470
1028 0183 PowerEdge 1800
1028 019a PowerEdge SC1425
103c 006a NX9500
103c 12bc d530 CMT (DG746A)
1043 80a6 P5P800-MX Mainboard
1458 24d2 GA-8IPE1000 Pro2 motherboard (865PE)
1462 7280 865PE Neo2 (MS-6728)
1565 3101 P4TSV Motherboard (865G)
15d9 4580 P4SCE Mainboard
1734 101c Primergy RX300 S2
8086 3427 S875WP1-E mainboard
8086 4246 Desktop Board D865GBF
8086 4c43 Desktop Board D865GLC
8086 524c D865PERL mainboard
24d5 82801EB/ER (ICH5/ICH5R) AC'97 Audio Controller
100a 147b Abit
IS7-E motherboard
1028 0169 Precision 470
103c 006a NX9500
103c 12bc d330 uT
1043 80f3 P4P800 Mainboard
1043 810f P5P800-MX Mainboard
1458 a002 GA-8IPE1000/8KNXP motherboard
1462 0080 65PE Neo2-V (MS-6788) mainboard
1462 7280 865PE Neo2 (MS-6728)
8086 a000 D865PERL mainboard
8086 e000 D865PERL mainboard
8086 e001 Desktop Board D865GBF
8086 e002 SoundMax Intergrated Digital Audio
24d6 82801EB/ER (ICH5/ICH5R) AC'97 Modem Controller
103c 006a NX9500
24d7 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #3
1014 02ed xSeries server mainboard
1028 0169 Precision 470
1028 0183 PowerEdge 1800
103c 006a NX9500
103c 12bc d530 CMT (DG746A)
1043 80a6 P5P800-MX Mainboard
1458 24d2 GA-8IPE1000 Pro2 motherboard (865PE)
1462 7280 865PE Neo2 (MS-6728)
1565 3101 P4TSV Motherboard (865G)
15d9 4580 P4SCE Mainboard
1734 101c Primergy RX300 S2
8086 3427 S875WP1-E mainboard
8086 4246 Desktop Board D865GBF

8086 4c43 Desktop Board
D865GLC
8086 524c D865PERL mainboard
24db 82801EB/ER (ICH5/ICH5R) IDE Controller
1014 02dd eServer xSeries server mainboard
1014 02ed eServer xSeries server mainboard
1028 0169 Precision 470
1028 019a PowerEdge SC1425
103c 006a NX9500
103c 12bc d530 CMT (DG746A)
1043 80a6 P5P800-MX Mainboard
1458 24d2 GA-8IPE1000 Pro2 motherboard (865PE)
1462 7280 865PE Neo2 (MS-6728)
1462 7580 MSI 875P
1565 3101 P4TSV Motherboard (865G)
15d9 4580 P4SCE Mainboard
1734 101c Primergy RX300 S2
8086 24db P4C800 Mainboard
8086 3427 S875WP1-E mainboard
8086 4246 Desktop Board D865GBF
8086 4c43 Desktop Board D865GLC
8086 524c D865PERL mainboard
24dc 82801EB (ICH5) LPC Interface Bridge
24dd 82801EB/ER (ICH5/ICH5R) USB2 EHCI Controller
1014 02dd eServer xSeries server mainboard
1014 02ed eServer xSeries server mainboard
1028 0169 Precision 470
1028 0183 PowerEdge 1800
1028 019a PowerEdge SC1425
103c 006a NX9500
103c 12bc d530
CMT (DG746A)
1043 80a6 P5P800-MX Mainboard
1458 5006 GA-8IPE1000 Pro2 motherboard (865PE)
1462 7280 865PE Neo2 (MS-6728)
8086 3427 S875WP1-E mainboard
8086 4246 Desktop Board D865GBF
8086 4c43 Desktop Board D865GLC
8086 524c D865PERL mainboard
24de 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #4
1014 02ed xSeries server mainboard
1028 0169 Precision 470
1043 80a6 P5P800-MX Mainboard
1458 24d2 GA-8IPE1000 Pro2 motherboard (865PE)
1462 7280 865PE Neo2 (MS-6728)
1565 3101 P4TSV Motherboard (865G)
15d9 4580 P4SCE Mainboard
1734 101c Primergy RX300 S2

8086 3427 S875WP1-E mainboard
8086 4246 Desktop Board D865GBF
8086 4c43 Desktop Board D865GLC
8086 524c D865PERL mainboard
24df 82801ER (ICH5R) SATA Controller
2500 82820 820 (Camino) Chipset Host Bridge (MCH)
1028 0095 Precision Workstation 220 Chipset
1043 801c P3C-2000 system chipset
2501 82820 820 (Camino) Chipset Host Bridge (MCH)
1043 801c P3C-2000 system chipset
250b
82820 820 (Camino) Chipset Host Bridge
250f 82820 820 (Camino) Chipset AGP Bridge
2520 82805AA MTH Memory Translator Hub
2521 82804AA MRH-S Memory Repeater Hub for SDRAM
2530 82850 850 (Tehama) Chipset Host Bridge (MCH)
1028 00c7 Dimension 8100
147b 0507 TH7II-RAID
2531 82860 860 (Wombat) Chipset Host Bridge (MCH)
2532 82850 850 (Tehama) Chipset AGP Bridge
2533 82860 860 (Wombat) Chipset AGP Bridge
2534 82860 860 (Wombat) Chipset PCI Bridge
2540 E7500 Memory Controller Hub
15d9 3480 P4DP6
2541 E7500/E7501 Host RASUM Controller
15d9 3480 P4DP6
4c53 1090 Cx9 / Vx9 mainboard
8086 3424 SE7501HG2 Mainboard
2543 E7500/E7501 Hub Interface B PCI-to-PCI Bridge
2544 E7500/E7501 Hub Interface B RASUM Controller
4c53 1090 Cx9 / Vx9 mainboard
2545 E7500/E7501 Hub Interface C PCI-to-PCI Bridge
2546 E7500/E7501 Hub Interface C RASUM Controller
2547 E7500/E7501 Hub Interface D PCI-to-PCI Bridge
2548 E7500/E7501 Hub Interface D RASUM Controller
254c
E7501 Memory Controller Hub
4c53 1090 Cx9 / Vx9 mainboard
8086 3424 SE7501HG2 Mainboard
2550 E7505 Memory Controller Hub
2551 E7505/E7205 Series RAS Controller
2552 E7505/E7205 PCI-to-AGP Bridge
2553 E7505 Hub Interface B PCI-to-PCI Bridge
2554 E7505 Hub Interface B PCI-to-PCI Bridge RAS Controller
255d E7205 Memory Controller Hub
2560 82845G/GL[Brookdale-G]/GE/PE DRAM Controller/Host-Hub Interface
1028 0126 Optiplex GX260
1458 2560 GA-8PE667 Ultra

1462 5800 845PE Max (MS-6580)
2561 82845G/GL[Brookdale-G]/GE/PE Host-to-AGP Bridge
2562 82845G/GL[Brookdale-G]/GE Chipset Integrated Graphics Device
0e11 00b9 Evo D510 SFF
1014 0267 NetVista A30p
1734 1004 D1451 Mainboard (SCENIC N300, i845GV)
2570 82865G/PE/P DRAM Controller/Host-Hub Interface
103c 006a NX9500
103c 12bc d330 uT
1043 80f2 P5P800-MX Mainboard
1458 2570 GA-8IPE1000 Pro2 motherboard (865PE)
2571 82865G/PE/P PCI to AGP Controller
2572 82865G Integrated Graphics Controller
1028
019d Dimension 3000
103c 12bc D530 sff(dc578av)
1043 80a5 P5P800-MX Mainboard
8086 4246 Desktop Board D865GBF
8086 4c43 Desktop Board D865GLC
2573 82865G/PE/P PCI to CSA Bridge
2576 82865G/PE/P Processor to I/O Memory Interface
2578 82875P/E7210 Memory Controller Hub
1458 2578 GA-8KNXP motherboard (875P)
1462 7580 MS-6758 (875P Neo)
15d9 4580 P4SCE Motherboard
2579 82875P Processor to AGP Controller
257b 82875P/E7210 Processor to PCI to CSA Bridge
257e 82875P/E7210 Processor to I/O Memory Interface
2580 82915G/P/GV/GL/PL/910GL Memory Controller Hub
1458 2580 GA-8I915ME-G Mainboard
1462 7028 915P/G Neo2
1734 105b Scenic W620
2581 82915G/P/GV/GL/PL/910GL PCI Express Root Port
2582 82915G/GV/910GL Integrated Graphics Controller
1028 1079 Optiplex GX280
103c 3006 DC7100 SFF(DX878AV)
1043 2582 P5GD1-VW Mainboard
1458 2582 GA-8I915ME-G Mainboard
1734 105b Scenic W620
2584 82925X/XE Memory Controller Hub
2585
82925X/XE PCI Express Root Port
2588 E7220/E7221 Memory Controller Hub
2589 E7220/E7221 PCI Express Root Port
258a E7221 Integrated Graphics Controller
2590 Mobile 915GM/PM/GMS/910GML Express Processor to DRAM Controller
1028 0182 Dell Latidude C610
103c 099c NX6110/NC6120

a304 81b7 Vaio VGN-S3XP
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2591 Mobile 915GM/PM Express PCI Express Root Port
2592 Mobile 915GM/GMS/910GML Express Graphics Controller
103c 099c NX6110/NC6120
103c 308a NC6220
1043 1881 GMA 900 915GM Integrated Graphics
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
25a1 6300ESB LPC Interface Controller
25a2 6300ESB PATA Storage Controller
1775 10d0 V5D Single Board Computer IDE
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10e0 PSL09 PrPMC
25a3 6300ESB SATA Storage Controller
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0
CL9 mainboard
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25a4 6300ESB SMBus Controller
1775 10d0 V5D Single Board Computer
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25a6 6300ESB AC'97 Audio Controller
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
25a7 6300ESB AC'97 Modem Controller
25a9 6300ESB USB Universal Host Controller
1775 10d0 V5D Single Board Computer USB
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25aa 6300ESB USB Universal Host Controller
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9

4c53 10b0 CL9 mainboard
4c53 10e0 PSL09 PrPMC
25ab 6300ESB Watchdog Timer
1775 10d0 V5D Single Board Computer
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53
10b0 CL9 mainboard
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25ac 6300ESB I/O Advanced Programmable Interrupt Controller
1775 10d0 V5D Single Board Computer
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25ad 6300ESB USB2 Enhanced Host Controller
1775 10d0 V5D Single Board Computer USB 2.0
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25ae 6300ESB 64-bit PCI-X Bridge
25b0 6300ESB SATA RAID Controller
1775 1100 CR11/VR11 Single Board Computer
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25c0 5000X Chipset Memory Controller Hub
25d0 5000Z Chipset Memory Controller Hub
25d4 5000V Chipset Memory Controller Hub
25d8 5000P Chipset Memory Controller Hub
25e2 5000 Series Chipset PCI Express x4 Port 2
25e3
5000 Series Chipset PCI Express x4 Port 3
25e4 5000 Series Chipset PCI Express x4 Port 4
25e5 5000 Series Chipset PCI Express x4 Port 5
25e6 5000 Series Chipset PCI Express x4 Port 6
25e7 5000 Series Chipset PCI Express x4 Port 7
25f0 5000 Series Chipset FSB Registers
25f1 5000 Series Chipset Reserved Registers
25f3 5000 Series Chipset Reserved Registers
25f5 5000 Series Chipset FBD Registers
25f6 5000 Series Chipset FBD Registers
25f7 5000 Series Chipset PCI Express x8 Port 2-3
25f8 5000 Series Chipset PCI Express x8 Port 4-5
25f9 5000 Series Chipset PCI Express x8 Port 6-7

25fa 5000X Chipset PCI Express x16 Port 4-7
2600 E8500/E8501 Hub Interface 1.5
2601 E8500/E8501 PCI Express x4 Port D
2602 E8500/E8501 PCI Express x4 Port C0
2603 E8500/E8501 PCI Express x4 Port C1
2604 E8500/E8501 PCI Express x4 Port B0
2605 E8500/E8501 PCI Express x4 Port B1
2606 E8500/E8501 PCI Express x4 Port A0
2607 E8500/E8501 PCI Express x4 Port A1
2608 E8500/E8501
PCI Express x8 Port C
2609 E8500/E8501 PCI Express x8 Port B
260a E8500/E8501 PCI Express x8 Port A
260c E8500/E8501 IMI Registers
2610 E8500/E8501 FSB Registers
2611 E8500/E8501 Address Mapping Registers
2612 E8500/E8501 RAS Registers
2613 E8500/E8501 Reserved Registers
2614 E8500/E8501 Reserved Registers
2615 E8500/E8501 Miscellaneous Registers
2617 E8500/E8501 Reserved Registers
2618 E8500/E8501 Reserved Registers
2619 E8500/E8501 Reserved Registers
261a E8500/E8501 Reserved Registers
261b E8500/E8501 Reserved Registers
261c E8500/E8501 Reserved Registers
261d E8500/E8501 Reserved Registers
261e E8500/E8501 Reserved Registers
2620 E8500/E8501 eXternal Memory Bridge
2621 E8500/E8501 XMB Miscellaneous Registers
2622 E8500/E8501 XMB Memory Interleaving Registers
2623 E8500/E8501 XMB DDR Initialization and Calibration
2624 E8500/E8501 XMB Reserved Registers
2625 E8500/E8501 XMB Reserved Registers
2626 E8500/E8501 XMB Reserved Registers
2627
 E8500/E8501 XMB Reserved Registers
2640 82801FB/FR (ICH6/ICH6R) LPC Interface Bridge
 1462 7028 915P/G Neo2
 1734 105c Scenic W620
 e4bf 0ccd CCD-CALYPSO
 e4bf 0cd3 CD3-JIVE
 e4bf 58b1 XB1
2641 82801FBM (ICH6M) LPC Interface Bridge
 103c 099c NX6110/NC6120
2642 82801FW/FRW (ICH6W/ICH6RW) LPC Interface Bridge
2651 82801FB/FW (ICH6/ICH6W) SATA Controller
 1028 0179 Optiplex GX280

1043 2601 P5GD1-VW Mainboard
1734 105c Scenic W620
8086 4147 D915GAG Motherboard
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2652 82801FR/FRW (ICH6R/ICH6RW) SATA Controller
1462 7028 915P/G Neo2
2653 82801FBM (ICH6M) SATA Controller
2658 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #1
1028 0179 Optiplex GX280
103c 099c NX6110/NC6120
1043 80a6 P5GD1-VW Mainboard
1458 2558 GA-8I915ME-G Mainboard
1462 7028 915P/G Neo2
1734 105c Scenic W620
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2659 82801FB/FBM/FR/FW/FRW
(ICH6 Family) USB UHCI #2
1028 0179 Optiplex GX280
103c 099c NX6110/NC6120
1043 80a6 P5GD1-VW Mainboard
1458 2659 GA-8I915ME-G Mainboard
1462 7028 915P/G Neo2
1734 105c Scenic W620
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
265a 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #3
1028 0179 Optiplex GX280
103c 099c NX6110/NC6120
1043 80a6 P5GD1-VW Mainboard
1458 265a GA-8I915ME-G Mainboard
1462 7028 915P/G Neo2
1734 105c Scenic W620
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
265b 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #4
1028 0179 Optiplex GX280
103c 099c NX6110/NC6120
1043 80a6 P5GD1-VW Mainboard
1458 265a GA-8I915ME-G Mainboard
1462 7028 915P/G Neo2
1734 105c Scenic W620
e4bf 0ccd CCD-CALYPSO

e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
265c 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB2 EHCI Controller
1028 0179 Optiplex GX280
103c 099c NX6110/NC6120
1043 80a6 P5GD1-VW Mainboard
1458
5006 GA-8I915ME-G Mainboard
1462 7028 915P/G Neo2
1734 105c Scenic W620
8086 265c Dimension 3100
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2660 82801FB/FBM/FR/FW/FRW (ICH6 Family) PCI Express Port 1
103c 099c NX6110/NC6120
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2662 82801FB/FBM/FR/FW/FRW (ICH6 Family) PCI Express Port 2
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2664 82801FB/FBM/FR/FW/FRW (ICH6 Family) PCI Express Port 3
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2666 82801FB/FBM/FR/FW/FRW (ICH6 Family) PCI Express Port 4
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2668 82801FB/FBM/FR/FW/FRW (ICH6 Family) High Definition Audio Controller
based on the PTGD1-LA motherboard
103c 2a09 PufferM-UL8E
1043 814e P5GD1-VW Mainboard
266a 82801FB/FBM/FR/FW/FRW (ICH6 Family) SMBus Controller
1028 0179 Optiplex GX280
1043 80a6 P5GD1-VW Mainboard
1458
266a GA-8I915ME-G Mainboard
1462 7028 915P/G Neo2
1734 105c Scenic W620
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
266c 82801FB/FBM/FR/FW/FRW (ICH6 Family) LAN Controller
266d 82801FB/FBM/FR/FW/FRW (ICH6 Family) AC'97 Modem Controller
1025 006a Conexant AC'97 CoDec (in Acer TravelMate 2410 serie laptop)

103c 099c NX6110/NC6120
266e 82801FB/FBM/FR/FW/FRW (ICH6 Family) AC'97 Audio Controller
1025 006a Realtek ALC 655 codec (in Acer TravelMate 2410 serie laptop)
1028 0179 Optiplex GX280
1028 0182 Latitude D610 Laptop
1028 0188 Inspiron 6000 laptop
103c 0944 Compaq NC6220
103c 099c NX6110/NC6120
103c 3006 DC7100 SFF(DX878AV)
1458 a002 GA-8I915ME-G Mainboard
152d 0745 Packard Bell A8550 Laptop
1734 105a Scenic W620
266f 82801FB/FBM/FR/FW/FRW (ICH6 Family) IDE Controller
103c 099c NX6110/NC6120
1043 80a6 P5GD1-VW Mainboard
1458 266f GA-8I915ME-G Mainboard
1462 7028 915P/G Neo2
1734 105c Scenic W620
e4bf
0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2670 631xESB/632xESB/3100 Chipset LPC Interface Controller
2680 631xESB/632xESB/3100 Chipset SATA IDE Controller
2681 631xESB/632xESB SATA AHCI Controller
2682 631xESB/632xESB SATA RAID Controller
2683 631xESB/632xESB SATA RAID Controller
2688 631xESB/632xESB/3100 Chipset UHCI USB Controller #1
2689 631xESB/632xESB/3100 Chipset UHCI USB Controller #2
268a 631xESB/632xESB/3100 Chipset UHCI USB Controller #3
268b 631xESB/632xESB/3100 Chipset UHCI USB Controller #4
268c 631xESB/632xESB/3100 Chipset EHCI USB2 Controller
2690 631xESB/632xESB/3100 Chipset PCI Express Root Port 1
2692 631xESB/632xESB/3100 Chipset PCI Express Root Port 2
2694 631xESB/632xESB/3100 Chipset PCI Express Root Port 3
2696 631xESB/632xESB/3100 Chipset PCI Express Root Port 4
2698 631xESB/632xESB AC '97 Audio Controller
2699 631xESB/632xESB AC '97 Modem Controller
269a 631xESB/632xESB High Definition Audio Controller
269b
631xESB/632xESB/3100 Chipset SMBus Controller
269e 631xESB/632xESB IDE Controller
2770 82945G/GZ/P/PL Memory Controller Hub
107b 5048 E4500
8086 544e DeskTop Board D945GTP
2771 82945G/GZ/P/PL PCI Express Root Port
2772 82945G/GZ Integrated Graphics Controller
8086 544e DeskTop Board D945GTP

2774 82955X Memory Controller Hub
2775 82955X PCI Express Root Port
2776 82945G/GZ Integrated Graphics Controller
2778 E7230/3000/3010 Memory Controller Hub
2779 E7230/3000/3010 PCI Express Root Port
277a 82975X/3010 PCI Express Root Port
277c 82975X Memory Controller Hub
277d 82975X PCI Express Root Port
2782 82915G Integrated Graphics Controller
 1043 2582 P5GD1-VW Mainboard
 1734 105b Scenic W620
2792 Mobile 915GM/GMS/910GML Express Graphics Controller
 103c 099c NX6110/NC6120
 1043 1881 GMA 900 915GM Integrated Graphics
 e4bf 0ccd CCD-CALYPSO
 e4bf 0cd3 CD3-JIVE
 e4bf 58b1 XB1
27a0 Mobile 945GM/PM/GMS, 943/940GML and 945GT Express Memory Controller
Hub
 1025 006c 9814 WKMI
 103c 30a1 NC2400
 17aa 2017 Thinkpad R60e model 0657
27a1 Mobile 945GM/PM/GMS, 943/940GML and 945GT Express PCI Express Root Port
27a2 Mobile 945GM/GMS, 943/940GML Express Integrated Graphics Controller
 103c 30a1 NC2400
 17aa 201a Thinkpad R60e model 0657
27a6 Mobile 945GM/GMS, 943/940GML Express Integrated Graphics Controller
 103c 30a1 NC2400
 17aa 201a Thinkpad R60e model 0657
27b0 82801GH (ICH7DH) LPC Interface Bridge
27b8 82801GB/GR (ICH7 Family) LPC Interface Bridge
 107b 5048 E4500
 8086 544e DeskTop Board D945GTP
27b9 82801GBM (ICH7-M) LPC Interface Bridge
 103c 30a1 NC2400
 10f7 8338 Panasonic CF-Y5 laptop
 17aa 2009 ThinkPad T60/R60 series
27bd 82801GHM (ICH7-M DH) LPC Interface Bridge
 1025 006c 9814 WKMI
27c0 82801GB/GR/GH (ICH7 Family) SATA IDE Controller
 107b 5048 E4500
 8086 544e DeskTop Board D945GTP
27c1 82801GR/GH (ICH7 Family) SATA AHCI Controller
27c3 82801GR/GH (ICH7 Family) SATA RAID
Controller
27c4 82801GBM/GHM (ICH7 Family) SATA IDE Controller
 1025 006c 9814 WKMI
27c5 82801GBM/GHM (ICH7 Family) SATA AHCI Controller

17aa 200d Thinkpad R60e model 0657
27c6 82801GHM (ICH7-M DH) SATA RAID Controller
27c8 82801G (ICH7 Family) USB UHCI Controller #1
1025 006c 9814 WKMI
103c 30a1 NC2400
107b 5048 E4500
17aa 200a ThinkPad T60/R60 series
8086 544e DeskTop Board D945GTP
27c9 82801G (ICH7 Family) USB UHCI Controller #2
1025 006c 9814 WKMI
103c 30a1 NC2400
107b 5048 E4500
17aa 200a ThinkPad T60/R60 series
8086 544e DeskTop Board D945GTP
27ca 82801G (ICH7 Family) USB UHCI Controller #3
1025 006c 9814 WKMI
103c 30a1 NC2400
107b 5048 E4500
17aa 200a ThinkPad T60/R60 series
8086 544e DeskTop Board D945GTP
27cb 82801G (ICH7 Family) USB UHCI Controller #4
1025 006c 9814 WKMI
103c 30a1 NC2400
107b 5048 E4500
17aa 200a ThinkPad T60/R60 series
8086 544e DeskTop Board D945GTP
27cc 82801G (ICH7 Family)
USB2 EHCI Controller
1025 006c 9814 WKMI
103c 30a1 NC2400
17aa 200b ThinkPad T60/R60 series
8086 544e DeskTop Board D945GTP
27d0 82801G (ICH7 Family) PCI Express Port 1
27d2 82801G (ICH7 Family) PCI Express Port 2
27d4 82801G (ICH7 Family) PCI Express Port 3
27d6 82801G (ICH7 Family) PCI Express Port 4
27d8 82801G (ICH7 Family) High Definition Audio Controller
1025 006c 9814 WKMI
103c 30a1 NC2400
1043 13c4 Asus G2P
107b 5048 E4500
10f7 8338 Panasonic CF-Y5 laptop
1179 ff31 AC97 Data Fax SoftModem with SmartCP
152d 0753 Softmodem
1734 10ad Conexant softmodem SmartCP
17aa 2010 ThinkPad T60/R60 series
17aa 3802 Lenovo 3000 C200 audio [Realtek ALC861VD]
27da 82801G (ICH7 Family) SMBus Controller

1025 006c 9814 WKMI
10f7 8338 Panasonic CF-Y5 laptop
17aa 200f ThinkPad T60/R60 series
8086 544e DeskTop Board D945GTP
27dc 82801G (ICH7 Family) LAN Controller
8086 308d DeskTop Board D945GTP
27dd 82801G (ICH7 Family) AC'97
Modem Controller
27de 82801G (ICH7 Family) AC'97 Audio Controller
27df 82801G (ICH7 Family) IDE Controller
103c 30a1 NC2400
107b 5048 E4500
10f7 8338 Panasonic CF-Y5 laptop
17aa 200c Thinkpad R60e model 0657
8086 544e DeskTop Board D945GTP
27e0 82801GR/GH/GHM (ICH7 Family) PCI Express Port 5
27e2 82801GR/GH/GHM (ICH7 Family) PCI Express Port 6
2810 82801HB/HR (ICH8/R) LPC Interface Controller
2811 Mobile LPC Interface Controller
2812 82801HH (ICH8DH) LPC Interface Controller
2814 82801HO (ICH8DO) LPC Interface Controller
2815 Mobile LPC Interface Controller
2820 82801H (ICH8 Family) 4 port SATA IDE Controller
1462 7235 P965 Neo MS-7235 mainboard
2821 82801HR/HO/HH (ICH8R/DO/DH) 6 port SATA AHCI Controller
2822 82801 SATA RAID Controller
2824 82801HB (ICH8) 4 port SATA AHCI Controller
2825 82801H (ICH8 Family) 2 port SATA IDE Controller
1462 7235 P965 Neo MS-7235 mainboard
2828 Mobile SATA IDE Controller
2829 Mobile SATA AHCI Controller
282a
Mobile SATA RAID Controller
2830 82801H (ICH8 Family) USB UHCI Controller #1
1462 7235 P965 Neo MS-7235 mainboard
2831 82801H (ICH8 Family) USB UHCI Controller #2
1462 7235 P965 Neo MS-7235 mainboard
2832 82801H (ICH8 Family) USB UHCI Controller #3
2834 82801H (ICH8 Family) USB UHCI Contoller #4
1462 7235 P965 Neo MS-7235 mainboard
2835 82801H (ICH8 Family) USB UHCI Controller #5
2836 82801H (ICH8 Family) USB2 EHCI Controller #1
1462 7235 P965 Neo MS-7235 mainboard
283a 82801H (ICH8 Family) USB2 EHCI Controller #2
283e 82801H (ICH8 Family) SMBus Controller
1462 7235 P965 Neo MS-7235 mainboard
283f 82801H (ICH8 Family) PCI Express Port 1
2841 82801H (ICH8 Family) PCI Express Port 2

2843 82801H (ICH8 Family) PCI Express Port 3
2845 82801H (ICH8 Family) PCI Express Port 4
2847 82801H (ICH8 Family) PCI Express Port 5
2849 82801H (ICH8 Family) PCI Express Port 6
284b 82801H (ICH8 Family) HD Audio Controller
284f 82801H (ICH8 Family) Thermal
Reporting Device
2850 Mobile IDE Controller
2910 LPC Interface Controller
2911 LPC Interface Controller
2912 LPC Interface Controller
2914 LPC Interface Controller
2916 LPC Interface Controller
2918 LPC Interface Controller
2920 4 port SATA IDE Controller
2921 2 port SATA IDE Controller
2922 6 port SATA AHCI Controller
2923 4 port SATA AHCI Controller
2925 SATA RAID Controller
2926 2 port SATA IDE Controller
2928 Mobile 2 port SATA IDE Controller
2929 Mobile SATA AHCI Controller
292c Mobile SATA RAID Controller
292d Mobile 2 port SATA IDE Controller
292e Mobile 1 port SATA IDE Controller
2930 SMBus Controller
2932 Thermal Subsystem
2934 USB UHCI Controller #1
2935 USB UHCI Controller #2
2936 USB UHCI Controller #3
2937 USB UHCI Controller #4
2938 USB UHCI Controller #5
2939 USB UHCI Controller #6
293a USB2 EHCI Controller #1
293c USB2 EHCI Controller #2
293e HD Audio Controller
2940 PCI Express Port 1
2942 PCI Express
Port 2
2944 PCI Express Port 3
2946 PCI Express Port 4
2948 PCI Express Port 5
294a PCI Express Port 6
294c 82566DC-2 Gigabit Network Connection
2970 82946GZ/PL/GL Memory Controller Hub
2971 82946GZ/PL/GL PCI Express Root Port
2972 82946GZ/GL Integrated Graphics Controller
2973 82946GZ/GL Integrated Graphics Controller

2974 82946GZ/GL HECI Controller
2975 82946GZ/GL HECI Controller
2976 82946GZ/GL PT IDER Controller
2977 82946GZ/GL KT Controller
2980 965 G1 Memory Controller Hub
2981 965 G1 PCI Express Root Port
2982 965 G1 Integrated Graphics Controller
2990 82Q963/Q965 Memory Controller Hub
2991 82Q963/Q965 PCI Express Root Port
2992 82Q963/Q965 Integrated Graphics Controller
2993 82Q963/Q965 Integrated Graphics Controller
2994 82Q963/Q965 HECI Controller
2995 82Q963/Q965 HECI Controller
2996 82Q963/Q965 PT IDER Controller
2997 82Q963/Q965 KT Controller
29a0 82P965/G965 Memory Controller Hub
1462 7276 MS-7276 [G965MDH]
29a1 82P965/G965
PCI Express Root Port
29a2 82G965 Integrated Graphics Controller
1462 7276 MS-7276 [G965MDH]
29a3 82G965 Integrated Graphics Controller
29a4 82P965/G965 HECI Controller
29a5 82P965/G965 HECI Controller
29a6 82P965/G965 PT IDER Controller
29a7 82P965/G965 KT Controller
29b0 DRAM Controller
29b1 PCI Express Root Port
29b2 Integrated Graphics Controller
29b3 Integrated Graphics Controller
29b4 MEI Controller
29b5 MEI Controller
29b6 PT IDER Controller
29b7 Serial KT Controller
29c0 DRAM Controller
29c1 PCI Express Root Port
29c2 Integrated Graphics Controller
29c3 Integrated Graphics Controller
29c4 MEI Controller
29c5 MEI Controller
29c6 PT IDER Controller
29c7 Serial KT Controller
29cf Virtual HECI Controller
29d0 DRAM Controller
29d1 PCI Express Root Port
29d2 Integrated Graphics Controller
29d3 Integrated Graphics Controller
29d4 MEI Controller

29d5 MEI Controller
29d6 PT IDER Controller
29d7 Serial KT Controller
29e0
 DRAM Controller
29e1 Host-Primary PCI Express Bridge
29e4 MEI Controller
29e5 MEI Controller
29e6 PT IDER Controller
29e7 Serial KT Controller
29e9 Host-Secondary PCI Express Bridge
29f0 Server DRAM Controller
29f1 Server Host-Primary PCI Express Bridge
29f4 Server MEI Controller
29f5 Server MEI Controller
29f6 Server PT IDER Controller
29f7 Server Serial KT Controller
29f9 Server Host-Secondary PCI Express Bridge
2a00 Mobile Memory Controller Hub
2a01 Mobile PCI Express Root Port
2a02 Mobile Integrated Graphics Controller
2a03 Mobile Integrated Graphics Controller
2a04 Mobile MEI Controller
2a05 Mobile MEI Controller
2a06 Mobile PT IDER Controller
2a07 Mobile KT Controller
3092 Integrated RAID
3200 GD31244 PCI-X SATA HBA
 1775 c200 C2K onboard SATA host bus adapter
3340 82855PM Processor to I/O Controller
 1014 0529 Thinkpad T41
 1025 005a TravelMate 290
 103c 088c NC8000 laptop
 103c 0890 NC6000 laptop
 103c 08b0 tc1100
tablet
 144d c00c P30/P35 notebook
3341 82855PM Processor to AGP Controller
 144d c00c P30 notebook
3500 6311ESB/6321ESB PCI Express Upstream Port
3501 6310ESB PCI Express Upstream Port
3504 6311ESB/6321ESB I/OxAPIC Interrupt Controller
3505 6310ESB I/OxAPIC Interrupt Controller
350c 6311ESB/6321ESB PCI Express to PCI-X Bridge
350d 6310ESB PCI Express to PCI-X Bridge
3510 6311ESB/6321ESB PCI Express Downstream Port E1
3511 6310ESB PCI Express Downstream Port E1
3514 6311ESB/6321ESB PCI Express Downstream Port E2

3515 6310ESB PCI Express Downstream Port E2
3518 6311ESB/6321ESB PCI Express Downstream Port E3
3519 6310ESB PCI Express Downstream Port E3
3575 82830 830 Chipset Host Bridge
 0e11 0030 Evo N600c
 1014 021d ThinkPad A/T/X Series
 104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
3576 82830 830 Chipset AGP Bridge
3577 82830 CGC [Chipset Graphics Controller]
 1014 0513 ThinkPad A/T/X Series
3578 82830 830 Chipset Host Bridge
3580
 82852/82855 GM/GME/PM/GMV Processor to I/O Controller
 1014 055c Thinkpad R50e model 1634
 1028 0139 Latitude D400
 1028 014f Latitude X300
 1028 0163 Latitude D505
 1028 0196 Inspiron 5160
 1734 1055 Amilo M1420
 1775 10d0 V5D Single Board Computer
 1775 ce90 CE9
 4c53 10b0 CL9 mainboard
 4c53 10e0 PSL09 PrPMC
 e4bf 0cc9 CC9-SAMBA
 e4bf 0cd2 CD2-BEBOP
3581 82852/82855 GM/GME/PM/GMV Processor to AGP Controller
 1734 1055 Amilo M1420
3582 82852/855GM Integrated Graphics Device
 1014 0562 Thinkpad R50e model 1634
 1028 0139 Latitude D400
 1028 014f Latitude X300
 1028 0163 Latitude D505
 1775 10d0 V5D Single Board Computer VGA
 1775 ce90 CE9
 4c53 10b0 CL9 mainboard
 4c53 10e0 PSL09 PrPMC
 e4bf 0cc9 CC9-SAMBA
 e4bf 0cd2 CD2-BEBOP
3584 82852/82855 GM/GME/PM/GMV Processor to I/O Controller
 1014 055d Thinkpad R50e model 1634
 1028 0139 Latitude D400
 1028 014f Latitude X300
 1028 0163 Latitude D505
 1028 0196 Inspiron
5160
 1734 1055 Amilo M1420
 1775 10d0 V5D Single Board Computer
 1775 ce90 CE9

4c53 10b0 CL9 mainboard
4c53 10e0 PSL09 PrPMC
3585 82852/82855 GM/GME/PM/GMV Processor to I/O Controller
1014 055e Thinkpad R50e model 1634
1028 0139 Latitude D400
1028 014f Latitude X300
1028 0163 Latitude D505
1028 0196 Inspiron 5160
1734 1055 Amilo M1420
1775 10d0 V5D Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10e0 PSL09 PrPMC
3590 E7520 Memory Controller Hub
1014 02dd eServer xSeries server mainboard
1028 019a PowerEdge SC1425
1734 103e Primergy RX300 S2
1775 1100 CR11/VR11 Single Board Computer
4c53 10d0 Telum ASLP10 Processor AMC
3591 E7525/E7520 Error Reporting Registers
1014 02dd eServer xSeries server mainboard
1028 0169 Precision 470
4c53 10d0 Telum ASLP10 Processor AMC
3592 E7320 Memory Controller Hub
3593 E7320 Error Reporting Registers
3594 E7520 DMA Controller
1775 1100 CR11/VR11 Single Board
Computer
4c53 10d0 Telum ASLP10 Processor AMC
3595 E7525/E7520/E7320 PCI Express Port A
1775 1100 CR11/VR11 Single Board Computer
3596 E7525/E7520/E7320 PCI Express Port A1
3597 E7525/E7520 PCI Express Port B
1775 1100 CR11/VR11 Single Board Computer
3598 E7520 PCI Express Port B1
1775 1100 CR11/VR11 Single Board Computer
3599 E7520 PCI Express Port C
1775 1100 CR11/VR11 Single Board Computer
359a E7520 PCI Express Port C1
359b E7525/E7520/E7320 Extended Configuration Registers
1014 02dd eServer xSeries server mainboard
359e E7525 Memory Controller Hub
1028 0169 Precision 470
35b0 3100 Chipset Memory I/O Controller Hub
35b1 3100 DRAM Controller Error Reporting Registers
35b5 3100 Chipset Enhanced DMA Controller
35b6 3100 Chipset PCI Express Port A
35b7 3100 Chipset PCI Express Port A1

35c8 3100 Extended Configuration Test Overflow Registers
3600 Server Memory Controller Hub
3604 Server PCI Express Port 1
3605 Server PCI Express Port
2
3606 Server PCI Express Port 3
3607 Server PCI Express Port 4
3608 Server PCI Express Port 5
3609 Server PCI Express Port 6
360a Server PCI Express Port 7
360b Server IOAT DMA Controller
360c Server FSB Registers
360d Server Snoop Filter Registers
360e Server Reserved Registers
360f Server FBD Branch 0 Registers
3610 Server FBD Branch 1 Registers
4000 Memory Controller Hub
4008 Memory Controller Hub
4010 Memory Controller Hub
4021 PCI Express Port 1
4022 PCI Express Port 2
4023 PCI Express Port 3
4024 PCI Express Port 4
4025 PCI Express Port 5
4026 PCI Express Port 6
4027 PCI Express Port 7
4028 PCI Express Port 8
4029 PCI Express Port 9
402d IBIST Registers
402e IBIST Registers
402f DMA/DCA Engine
4030 FSB Registers
4032 I/OxAPIC
4035 FBD Registers
4036 FBD Registers
4220 PRO/Wireless 2200BG Network Connection
 8086 2731 Samsung P35 integrated WLAN
4222 PRO/Wireless 3945ABG Network Connection
 8086 1005 PRO/Wireless
3945BG Network Connection
 8086 1034 PRO/Wireless 3945BG Network Connection
 8086 1044 PRO/Wireless 3945BG Network Connection
4223 PRO/Wireless 2915ABG Network Connection
 1351 103c Compaq NC6220
4224 PRO/Wireless 2915ABG Network Connection
4227 PRO/Wireless 3945ABG Network Connection
 8086 1011 Thinkpad X60s, R60e model 0657
 8086 1014 PRO/Wireless 3945BG Network Connection

5001 Pro/DSL 2100 Modem
5200 EtherExpress PRO/100 Intelligent Server
5201 EtherExpress PRO/100 Intelligent Server
 8086 0001 EtherExpress PRO/100 Server Ethernet Adapter
530d 80310 IOP [IO Processor]
65c0 Memory Controller Hub
65e2 PCI Express x4 Port 2
65e3 PCI Express x4 Port 3
65e4 PCI Express x4 Port 4
65e5 PCI Express x4 Port 5
65e6 PCI Express x4 Port 6
65e7 PCI Express x4 Port 7
65f0 FSB Registers
65f1 Reserved Registers
65f3 Reserved Registers
65f5 DDR Channel 0 Registers
65f6 DDR Channel 1 Registers
65f7 PCI Express x8 Port 2-3
65f8 PCI Express x8
Port 4-5
65f9 PCI Express x8 Port 6-7
65fa PCI Express x16 Port 4-7
65ff DMA Engine
7000 82371SB PIIX3 ISA [Natoma/Triton II]
7010 82371SB PIIX3 IDE [Natoma/Triton II]
7020 82371SB PIIX3 USB [Natoma/Triton II]
7030 430VX - 82437VX TVX [Triton VX]
7050 Intercast Video Capture Card
7051 PB 642365-003 (Business Video Conferencing Card)
7100 430TX - 82439TX MTXC
7110 82371AB/EB/MB PIIX4 ISA
 15ad 1976 virtualHW v3
7111 82371AB/EB/MB PIIX4 IDE
 15ad 1976 virtualHW v3
7112 82371AB/EB/MB PIIX4 USB
 15ad 1976 virtualHW v3
7113 82371AB/EB/MB PIIX4 ACPI
 15ad 1976 virtualHW v3
7120 82810 GMCH [Graphics Memory Controller Hub]
 4c53 1040 CL7 mainboard
 4c53 1060 PC7 mainboard
7121 82810 CGC [Chipset Graphics Controller]
 4c53 1040 CL7 mainboard
 4c53 1060 PC7 mainboard
 8086 4341 Cayman (CA810) Mainboard
7122 82810 DC-100 GMCH [Graphics Memory Controller Hub]
7123 82810 DC-100 CGC [Chipset Graphics Controller]
7124 82810E DC-133 GMCH [Graphics

Memory Controller Hub]
1028 00b4 OptiPlex GX110
7125 82810E DC-133 CGC [Chipset Graphics Controller]
1028 00b4 OptiPlex GX110
7126 82810 DC-133 System and Graphics Controller
7128 82810-M DC-100 System and Graphics Controller
712a 82810-M DC-133 System and Graphics Controller
7180 440LX/EX - 82443LX/EX Host bridge
7181 440LX/EX - 82443LX/EX AGP bridge
7190 440BX/ZX/DX - 82443BX/ZX/DX Host bridge
0e11 0500 Armada 1750 Laptop System Chipset
0e11 b110 Armada M700/E500
1028 008e PowerEdge 1300 mainboard
1179 0001 Toshiba Tecra 8100 Laptop System Chipset
15ad 1976 virtualHW v3
4c53 1050 CT7 mainboard
4c53 1051 CE7 mainboard
7191 440BX/ZX/DX - 82443BX/ZX/DX AGP bridge
1028 008e PowerEdge 1300 mainboard
7192 440BX/ZX/DX - 82443BX/ZX/DX Host bridge (AGP disabled)
0e11 0460 Armada 1700 Laptop System Chipset
4c53 1000 CC7/CR7/CP7/VC7/VP7/VR7 mainboard
7194 82440MX Host Bridge
1033 0000 Versa Note Vxi
4c53 10a0 CA3/CR3 mainboard
7195
82440MX AC'97 Audio Controller
1033 80cc Versa Note VXi
10cf 1099 QSound_SigmaTel Stac97 PCI Audio
11d4 0040 SoundMAX Integrated Digital Audio
11d4 0048 SoundMAX Integrated Digital Audio
7196 82440MX AC'97 Modem Controller
7198 82440MX ISA Bridge
7199 82440MX EIDE Controller
719a 82440MX USB Universal Host Controller
719b 82440MX Power Management Controller
71a0 440GX - 82443GX Host bridge
4c53 1050 CT7 mainboard
4c53 1051 CE7 mainboard
71a1 440GX - 82443GX AGP bridge
71a2 440GX - 82443GX Host bridge (AGP disabled)
4c53 1000 CC7/CR7/CP7/VC7/VP7/VR7 mainboard
7600 82372FB PIIX5 ISA
7601 82372FB PIIX5 IDE
7602 82372FB PIIX5 USB
7603 82372FB PIIX5 SMBus
7800 82740 (i740) AGP Graphics Accelerator
003d 0008 Starfighter AGP

003d 000b Starfighter AGP
1092 0100 Stealth II G460
10b4 201a Lightspeed 740
10b4 202f Lightspeed 740
8086 0000 Terminator 2x/i
8086 0100 Intel740 Graphics Accelerator
8002 Trusted Execution Technology
Registers
84c4 450KX/GX [Orion] - 82454KX/GX PCI bridge
84c5 450KX/GX [Orion] - 82453KX/GX Memory controller
84ca 450NX - 82451NX Memory & I/O Controller
84cb 450NX - 82454NX/84460GX PCI Expander Bridge
84e0 460GX - 84460GX System Address Controller (SAC)
84e1 460GX - 84460GX System Data Controller (SDC)
84e2 460GX - 84460GX AGP Bridge (GXB function 2)
84e3 460GX - 84460GX Memory Address Controller (MAC)
84e4 460GX - 84460GX Memory Data Controller (MDC)
84e6 460GX - 82466GX Wide and fast PCI eXpander Bridge (WXB)
84ea 460GX - 84460GX AGP Bridge (GXB function 1)
8500 IXP4XX Network Processor (IXP420/421/422/425/IXC1100)
1993 0ded mGuard-PCI AV#2
1993 0dee mGuard-PCI AV#1
1993 0def mGuard-PCI AV#0
9000 IXP2000 Family Network Processor
9001 IXP2400 Network Processor
9002 IXP2300 Network Processor
9004 IXP2800 Network Processor
9621 Integrated RAID
9622 Integrated RAID
9641 Integrated RAID
96a1 Integrated RAID
a620 6400/6402 Advanced Memory
Buffer (AMB)
b152 21152 PCI-to-PCI Bridge
observed, and documented in Intel revision note; new mask of 1011:0026
b154 21154 PCI-to-PCI Bridge
b555 21555 Non transparent PCI-to-PCI Bridge
12c7 5005 SS7HD PCI Adaptor Card
12c7 5006 SS7HDC cPCI Adaptor Card
12d9 000a PCI VoIP Gateway
4c53 1050 CT7 mainboard
4c53 1051 CE7 mainboard
e4bf 1000 CC8-1-BLUES
80ee InnoTek Systemberatung GmbH
beef VirtualBox Graphics Adapter
cafe VirtualBox Guest Service
8384 Sigmatel
7618 High Definition Audio Codec

7670 9770 High Definition Audio
7672 9772 High Definition Audio
8401 TRENDware International Inc.
8686 ScaleMP
1010 vSMPowered system controller [vSMP CTL]
8800 Trigem Computer Inc.
2008 Video assistent component
8866 T-Square Design Inc.
8888 Silicon Magic
8912 TRX
8c4a is not Winbond but there is a board misprogrammed
8c4a Winbond
1980 W89C940 misprogrammed [ne2k]
8e0e Computone Corporation
8e2e KTI
3000 ET32P2
9004 Adaptec
0078 AHA-2940U_CN
1078
AIC-7810
1160 AIC-1160 [Family Fibre Channel Adapter]
2178 AIC-7821
3860 AHA-2930CU
3b78 AHA-4844W/4844UW
5075 AIC-755x
5078 AHA-7850
9004 7850 AHA-2904/Integrated AIC-7850
5175 AIC-755x
5178 AIC-7851
5275 AIC-755x
5278 AIC-7852
5375 AIC-755x
5378 AIC-7850
5475 AIC-755x
5478 AIC-7850
5575 AVA-2930
5578 AIC-7855
5647 ANA-7711 TCP Offload Engine
9004 7710 ANA-7711F TCP Offload Engine - Optical
9004 7711 ANA-7711LP TCP Offload Engine - Copper
5675 AIC-755x
5678 AIC-7856
5775 AIC-755x
5778 AIC-7850
5800 AIC-5800
5900 ANA-5910/5930/5940 ATM155 & 25 LAN Adapter
5905 ANA-5910A/5930A/5940A ATM Adapter
6038 AIC-3860

6075 AIC-1480 / APA-1480
 9004 7560 AIC-1480 / APA-1480 Cardbus
6078 AIC-7860
6178 AIC-7861
 9004 7861 AHA-2940AU Single
6278 AIC-7860
6378 AIC-7860
6478 AIC-786x
6578 AIC-786x
6678 AIC-786x
6778 AIC-786x
6915 ANA620xx/ANA69011A
 9004 0008 ANA69011A/TX 10/100
 9004 0009 ANA69011A/TX
10/100
 9004 0010 ANA62022 2-port 10/100
 9004 0018 ANA62044 4-port 10/100
 9004 0019 ANA62044 4-port 10/100
 9004 0020 ANA62022 2-port 10/100
 9004 0028 ANA69011A/TX 10/100
 9004 8008 ANA69011A/TX 64 bit 10/100
 9004 8009 ANA69011A/TX 64 bit 10/100
 9004 8010 ANA62022 2-port 64 bit 10/100
 9004 8018 ANA62044 4-port 64 bit 10/100
 9004 8019 ANA62044 4-port 64 bit 10/100
 9004 8020 ANA62022 2-port 64 bit 10/100
 9004 8028 ANA69011A/TX 64 bit 10/100
7078 AHA-294x / AIC-7870
7178 AHA-2940/2940W / AIC-7871
7278 AHA-3940/3940W / AIC-7872
7378 AHA-3985 / AIC-7873
7478 AHA-2944/2944W / AIC-7874
7578 AHA-3944/3944W / AIC-7875
7678 AHA-4944W/UW / AIC-7876
7710 ANA-7711F Network Accelerator Card (NAC) - Optical
7711 ANA-7711C Network Accelerator Card (NAC) - Copper
7778 AIC-787x
7810 AIC-7810
7815 AIC-7815 RAID+Memory Controller IC
 9004 7815 ARO-1130U2 RAID Controller
 9004 7840 AIC-7815 RAID+Memory Controller IC
7850 AIC-7850
7855 AHA-2930
7860
 AIC-7860
7870 AIC-7870
7871 AHA-2940
7872 AHA-3940

7873 AHA-3980
7874 AHA-2944
7880 AIC-7880P
7890 AIC-7890
7891 AIC-789x
7892 AIC-789x
7893 AIC-789x
7894 AIC-789x
7895 AHA-2940U/UW / AHA-39xx / AIC-7895
 9004 7890 AHA-2940U/2940UW Dual AHA-394xAU/AUW/AUWD AIC-7895B
 9004 7891 AHA-2940U/2940UW Dual
 9004 7892 AHA-3940AU/AUW/AUWD/UWD
 9004 7894 AHA-3944AUWD
 9004 7895 AHA-2940U/2940UW Dual AHA-394xAU/AUW/AUWD AIC-7895B
 9004 7896 AHA-2940U/2940UW Dual AHA-394xAU/AUW/AUWD AIC-7895B
 9004 7897 AHA-2940U/2940UW Dual AHA-394xAU/AUW/AUWD AIC-7895B
7896 AIC-789x
7897 AIC-789x
8078 AIC-7880U
 9004 7880 AIC-7880P Ultra/Ultra Wide SCSI Chipset
8178 AHA-2940U/UW/D / AIC-7881U
 9004 7881 AHA-2940UW SCSI Host Adapter
8278 AHA-3940U/UW/UWD / AIC-7882U
8378 AHA-3940U/UW / AIC-7883U
8478 AHA-2944UW / AIC-7884U
8578 AHA-3944U/UWD / AIC-7885
8678 AHA-4944UW / AIC-7886
8778 AHA-2940UW Pro / AIC-788x
 9004 7887 2940UW Pro Ultra-Wide
SCSI Controller
8878 AHA-2930UW / AIC-7888
 9004 7888 AHA-2930UW SCSI Controller
8b78 ABA-1030
ec78 AHA-4944W/UW
9005 Adaptec
0010 AHA-2940U2/U2W
 9005 2180 AHA-2940U2 SCSI Controller
 9005 8100 AHA-2940U2B SCSI Controller
 9005 a100 AHA-2940U2B SCSI Controller
 9005 a180 AHA-2940U2W SCSI Controller
 9005 e100 AHA-2950U2B SCSI Controller
0011 AHA-2930U2
0013 78902
 9005 0003 AAA-131U2 Array1000 1 Channel RAID Controller
 9005 000f AIC7890_ARO
001f AHA-2940U2/U2W / 7890/7891
 9005 000f 2940U2W SCSI Controller
 9005 a180 2940U2W SCSI Controller

0020 AIC-7890
002f AIC-7890
0030 AIC-7890
003f AIC-7890
0050 AHA-3940U2x/395U2x
 9005 f500 AHA-3950U2B
 9005 ffff AHA-3950U2B
0051 AHA-3950U2D
 9005 b500 AHA-3950U2D
0053 AIC-7896 SCSI Controller
 9005 ffff AIC-7896 SCSI Controller mainboard implementation
005f AIC-7896U2/7897U2
0080 AIC-7892A U160/m
 0e11 e2a0 Compaq 64-Bit/66MHz Wide Ultra3 SCSI Adapter
 9005 6220 AHA-29160C
 9005
62a0 29160N Ultra160 SCSI Controller
 9005 e220 29160LP Low Profile Ultra160 SCSI Controller
 9005 e2a0 29160 Ultra160 SCSI Controller
0081 AIC-7892B U160/m
 9005 62a1 19160 Ultra160 SCSI Controller
0083 AIC-7892D U160/m
008f AIC-7892P U160/m
 1179 0001 Magnia Z310
 15d9 9005 Onboard SCSI Host Adapter
0092 AVC-2010 [VideoH!]
0093 AVC-2410 [VideoH!]
00c0 AHA-3960D / AIC-7899A U160/m
 0e11 f620 Compaq 64-Bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter
 9005 f620 AHA-3960D U160/m
00c1 AIC-7899B U160/m
00c3 AIC-7899D U160/m
00c5 RAID subsystem HBA
 1028 00c5 PowerEdge 2400,2500,2550,4400
00cf AIC-7899P U160/m
 1028 00ce PowerEdge 1400
 1028 00d1 PowerEdge 2550
 1028 00d9 PowerEdge 2500
 10f1 2462 Thunder K7 S2462
 15d9 9005 Onboard SCSI Host Adapter
 8086 3411 SDS2 Mainboard
0241 Serial ATA II RAID 1420SA
0250 ServeRAID Controller
 1014 0279 ServeRAID-xx
 1014 028c ServeRAID-xx
0279 ServeRAID 6M
0283 AAC-RAID
 9005 0283 Catapult

0284
 AAC-RAID
 9005 0284 Tomcat
0285 AAC-RAID
 0e11 0295 SATA 6Ch (Bearcat)
 1014 02f2 ServeRAID 8i
 1028 0287 PowerEdge Expandable RAID Controller 320/DC
 1028 0291 CERC SATA RAID 2 PCI SATA 6ch (DellCorsair)
 103c 3227 AAR-2610SA
 108e 0286 STK RAID INT
 108e 0287 STK RAID EXT
 108e 7aac STK RAID REM
 15d9 02b5 AOC-USAS-S4i
 15d9 02b6 AOC-USAS-S8i
 15d9 02c9 AOC-USAS-S4iR
 15d9 02ca AOC-USAS-S8iR
 17aa 0286 Legend S220 (Legend Crusader)
 17aa 0287 Legend S230 (Legend Vulcan)
 9005 0285 2200S (Vulcan)
 9005 0286 2120S (Crusader)
 9005 0287 2200S (Vulcan-2m)
 9005 0288 3230S (Harrier)
 9005 0289 3240S (Tornado)
Some early versions reported 2020S
 9005 028a ASR-2020ZCR
Some early versions reported 2025S
 9005 028b ASR-2025ZCR (Terminator)
 9005 028e ASR-2020SA (Skyhawk)
 9005 028f ASR-2025SA
 9005 0290 AAR-2410SA PCI SATA 4ch (Jaguar II)
 9005 0292 AAR-2810SA PCI SATA 8ch (Corsair-8)
 9005 0293 AAR-21610SA PCI SATA 16ch
(Corsair-16)
 9005 0294 ESD SO-DIMM PCI-X SATA ZCR (Prowler)
 9005 0296 ASR-2240S
 9005 0297 ASR-4005SAS
 9005 0298 ASR-4000
 9005 0299 ASR-4800SAS
 9005 029a 4805SAS
 9005 02a4 ICP ICP9085LI
 9005 02a5 ICP ICP5085BR
 9005 02b5 ASR5800
 9005 02b6 ASR5805
 9005 02b7 ASR5808
 9005 02b8 ICP5445SL
 9005 02b9 ICP5085SL
 9005 02ba ICP5805SL
 9005 02bb 3405

9005 02bc 3805
9005 02bd 31205
9005 02be 31605
9005 02bf ICP ICP5045BL
9005 02c0 ICP ICP5085BL
9005 02c1 ICP ICP5125BR
9005 02c2 ICP ICP5165BR
9005 02c3 51205
9005 02c4 51605
9005 02c5 ICP ICP5125SL
9005 02c6 ICP ICP5165SL
9005 02c7 3085
9005 02c8 ICP5805BL
0286 AAC-RAID (Rocket)
1014 034d 8s
1014 9540 ServeRAID 8k/8k-l4
1014 9580 ServeRAID 8k/8k-l8
9005 028c ASR-2230S + ASR-2230SLP PCI-X (Lancer)
9005 028d ASR-2130S
9005 029b ASR-2820SA
9005 029c ASR-2620SA
9005 029d ASR-2420SA
9005 029e ICP ICP9024R0
9005 029f ICP ICP9014R0
9005 02a0 ICP
ICP9047MA
9005 02a1 ICP ICP9087MA
9005 02a2 3800
9005 02a3 ICP ICP5445AU
9005 02a4 ICP ICP9085LI
9005 02a5 ICP ICP5085BR
9005 02a6 ICP9067MA
9005 02a7 3805
9005 02a8 3400
9005 02a9 ICP ICP5085AU
9005 02aa ICP ICP5045AU
9005 02ac 1800
9005 02b3 2400
9005 02b4 ICP ICP5045AL
9005 0800 Callisto
0410 AIC-9410W SAS (Razor HBA RAID)
9005 0410 ASC-48300(Spirit RAID)
9005 0411 ASC-58300 (Oakmont RAID)
0412 AIC-9410W SAS (Razor HBA non-RAID)
9005 0412 ASC-48300 (Spirit non-RAID)
9005 0413 ASC-58300 (Oakmont non-RAID)
041e AIC-9410W SAS (Razor ASIC non-RAID)
041f AIC-9410W SAS (Razor ASIC RAID)

9005 041f AIC-9410W SAS (Razor ASIC RAID)
0430 AIC-9405W SAS (Razor-Lite HBA RAID)
9005 0430 ASC-44300 (Spirit-Lite RAID)
0432 AIC-9405W SAS (Razor-Lite HBA non-RAID)
9005 0432 ASC-44300 (Spirit-Lite non-RAID)
043e AIC-9405W SAS (Razor-Lite ASIC non-RAID)
043f AIC-9405W SAS (Razor-Lite ASIC RAID)
0500 Obsidian chipset SCSI
controller
1014 02c1 PCI-X DDR 3Gb SAS Adapter (572A/572C)
1014 02c2 PCI-X DDR 3Gb SAS RAID Adapter (572B/572D)
0503 Scamp chipset SCSI controller
1014 02bf Quad Channel PCI-X DDR U320 SCSI RAID Adapter (571E)
1014 02c3 PCI-X DDR 3Gb SAS RAID Adapter (572F)
1014 02d5 Quad Channel PCI-X DDR U320 SCSI RAID Adapter (571F)
0910 AUA-3100B
091e AUA-3100B
8000 ASC-29320A U320
800f AIC-7901 U320
8010 ASC-39320 U320
8011 ASC-39320D
0e11 00ac ASC-39320D U320
9005 0041 ASC-39320D U320
8012 ASC-29320 U320
8013 ASC-29320B U320
8014 ASC-29320LP U320
8015 ASC-39320B U320
8016 ASC-39320A U320
8017 ASC-29320ALP U320
9005 0044 ASC-29320ALP PCIx U320
9005 0045 ASC-29320LPE PCIe U320
801c ASC-39320D U320
801d AIC-7902B U320
1014 02cc ServeRAID 7e
801e AIC-7901A U320
801f AIC-7902 U320
1734 1011 Primergy RX300
8080 ASC-29320A U320 w/HostRAID
808f AIC-7901 U320 w/HostRAID
8090 ASC-39320 U320 w/HostRAID
8091 ASC-39320D U320 w/HostRAID
8092
ASC-29320 U320 w/HostRAID
8093 ASC-29320B U320 w/HostRAID
8094 ASC-29320LP U320 w/HostRAID
8095 ASC-39320(B) U320 w/HostRAID
8096 ASC-39320A U320 w/HostRAID
8097 ASC-29320ALP U320 w/HostRAID

809c ASC-39320D(B) U320 w/HostRAID
809d AIC-7902(B) U320 w/HostRAID
1014 02cc ServeRAID 7e
809e AIC-7901A U320 w/HostRAID
809f AIC-7902 U320 w/HostRAID
907f Atronics
2015 IDE-2015PL
919a Gigapixel Corp
9412 Holtek
6565 6565
9699 Omni Media Technology Inc
6565 6565
9710 NetMos Technology
7780 USB IRDA-port
9805 PCI 1 port parallel adapter
9815 PCI 9815 Multi-I/O Controller
1000 0020 2P0S (2 port parallel adaptor)
9835 PCI 9835 Multi-I/O Controller
1000 0002 2S (16C550 UART)
1000 0012 1P2S
9845 PCI 9845 Multi-I/O Controller
1000 0004 0P4S (4 port 16550A serial card)
1000 0006 0P6S (6 port 16550a serial card)
9855 PCI 9855 Multi-I/O Controller
1000 0014 1P4S
9902 Stargen Inc.
0001 SG2010 PCI over Starfabric Bridge
0002 SG2010 PCI
to Starfabric Gateway
0003 SG1010 Starfabric Switch and PCI Bridge
a0a0 AOPEN Inc.
a0f1 UNISYS Corporation
a200 NEC Corporation
a259 Hewlett Packard
a25b Hewlett Packard GmbH PL24-MKT
a304 Sony
a727 3Com Corporation
0013 3CRPAG175 Wireless PC Card
aa42 Scitex Digital Video
ac1e Digital Receiver Technology Inc
ac3d Actuality Systems
aecb Adrienne Electronics Corporation
6250 VITC/LTC Timecode Reader card [PCI-VLTC/RDR]
affe Sirrix AG security technologies
02e1 PCI2E1 2-port ISDN E1 interface
dead Sirrix.PCI4S0 4-port ISDN S0 interface
Not registered officially
b10b Uakron PCI Project

b1b3 Shiva Europe Limited
Pinnacle should be 11bd, but they got it wrong several times --mj
bd11 Pinnacle Systems, Inc. (Wrong ID)
c001 TSI Telsys
c0a9 Micron/Crucial Technology
c0de Motorola
c0fe Motion Engineering, Inc.
ca50 Varian Australia Pty Ltd
cafe Chrysalis-ITS
 0003 Luna K3 Hardware Security Module
cccc Catapult Communications
ccec Curtiss-Wright Controls Embedded
 Computing
cddd Tyzx, Inc.
 0101 DeepSea 1 High Speed Stereo Vision Frame Grabber
 0200 DeepSea 2 High Speed Stereo Vision Frame Grabber
d161 Digium, Inc.
 0120 Wildcard TE120P single-span T1/E1/J1 card
 0205 Wildcard TE205P dual-span T1/E1/J1 card 5.0V
 0210 Wildcard TE210P dual-span T1/E1/J1 card 3.3V
 0405 Wildcard TE405P quad-span T1/E1/J1 card 5.0V
 0410 Wildcard TE410P quad-span T1/E1/J1 card 3.3V
 0800 Wildcard TDM800P 8-port analog card
 2400 Wildcard TDM2400P 24-port analog card
 3400 Wildcard TC400P transcoder base card
 b410 Wildcard B410 quad-BRI card
d4d4 Dy4 Systems Inc
 0601 PCI Mezzanine Card
d531 I+ME ACTIA GmbH
d84d Exsys
dead Indigita Corporation
deaf Middle Digital Inc.
 9050 PC Weasel Virtual VGA
 9051 PC Weasel Serial Port
 9052 PC Weasel Watchdog Timer
e000 Winbond
 e000 W89C940
e159 Tiger Jet Network Inc.
 0001 Tiger3XX Modem/ISDN interface
  0059 0001 128k ISDN-S/T Adapter
  0059 0003 128k ISDN-U Adapter
  00a7 0001 TELES.S0/PCI
 2.x ISDN Adapter
  8086 0003 Digium X100P/X101P analogue PSTN FXO interface
 0002 Tiger100APC ISDN chipset
e4bf EKF Elektronik GmbH
e55e Essence Technology, Inc.
ea01 Eagle Technology

000a PCI-773 Temperature Card
0032 PCI-730 & PC104P-30 Card
003e PCI-762 Opto-Isolator Card
0041 PCI-763 Reed Relay Card
0043 PCI-769 Opto-Isolator Reed Relay Combo Card
0046 PCI-766 Analog Output Card
0052 PCI-703 Analog I/O Card
0800 PCI-800 Digital I/O Card
The main chip of all these devices is by Xilinx -> It could also be a Xilinx ID.
ea60 RME
9896 Digi32
9897 Digi32 Pro
9898 Digi32/8
eabb Aashima Technology B.V.
eace Endace Measurement Systems, Ltd
3100 DAG 3.10 OC-3/OC-12
3200 DAG 3.2x OC-3/OC-12
320e DAG 3.2E Fast Ethernet
340e DAG 3.4E Fast Ethernet
341e DAG 3.41E Fast Ethernet
3500 DAG 3.5 OC-3/OC-12
351c DAG 3.5ECM Fast Ethernet
4100 DAG 4.10 OC-48
4110 DAG 4.11 OC-48
4220 DAG 4.2 OC-48
422e DAG 4.2E Dual Gigabit Ethernet
ec80 Belkin Corporation
ec00
F5D6000
ecc0 Echo Digital Audio Corporation
edd8 ARK Logic Inc
a091 1000PV [Stingray]
a099 2000PV [Stingray]
a0a1 2000MT
a0a9 2000MI
f1d0 AJA Video
c0fe Xena HS/HD-R
c0ff Kona/Xena 2
cafe Kona SD
cfee Xena LS/SD-22-DA/SD-DA
dcaf Kona HD
dfee Xena HD-DA
efac Xena SD-MM/SD-22-MM
facd Xena HD-MM
fa57 Interagon AS
0001 PMC [Pattern Matching Chip]
fab7 Fabric7 Systems, Inc.
febd Ultraview Corp.

```
# Nee Epigram
feda  Broadcom Inc
 a0fa  BCM4210 iLine10 HomePNA 2.0
 a10e  BCM4230 iLine10 HomePNA 2.0
fede  Fedetec Inc.
 0003  TABIC PCI v3
fffd  XenSource, Inc.
 0101  PCI Event Channel Controller
fffe  VMWare Inc
 0405  Virtual SVGA 4.0
 0710  Virtual SVGA
ffff  Illegal Vendor ID


# List of known device classes, subclasses and programming interfaces

# Syntax:
# C class class_name
# subclass subclass_name    <-- single tab
#  prog-if  prog-if_name   <-- two tabs

C 00  Unclassified device
 00  Non-VGA unclassified device
 01  VGA compatible unclassified
 device
C 01  Mass storage controller
 00  SCSI storage controller
 01  IDE interface
 02  Floppy disk controller
 03  IPI bus controller
 04  RAID bus controller
 05  ATA controller
  20  ADMA single stepping
  30  ADMA continuous operation
 06  SATA controller
  00  Vendor specific
  01  AHCI 1.0
 07  Serial Attached SCSI controller
 80  Mass storage controller
C 02  Network controller
 00  Ethernet controller
 01  Token ring network controller
 02  FDDI network controller
 03  ATM network controller
 04  ISDN controller
 05  WorldFip controller
 06  PICMG controller
 80  Network controller
```

C 03 Display controller
 00 VGA compatible controller
  00 VGA controller
  01 8514 controller
 01 XGA compatible controller
 02 3D controller
 80 Display controller
C 04 Multimedia controller
 00 Multimedia video controller
 01 Multimedia audio controller
 02 Computer telephony device
 03 Audio device
 80 Multimedia controller
C 05 Memory controller
 00 RAM memory
 01 FLASH
 memory
 80 Memory controller
C 06 Bridge
 00 Host bridge
 01 ISA bridge
 02 EISA bridge
 03 MicroChannel bridge
 04 PCI bridge
  00 Normal decode
  01 Subtractive decode
 05 PCMCIA bridge
 06 NuBus bridge
 07 CardBus bridge
 08 RACEway bridge
  00 Transparent mode
  01 Endpoint mode
 09 Semi-transparent PCI-to-PCI bridge
  40 Primary bus towards host CPU
  80 Secondary bus towards host CPU
 0a InfiniBand to PCI host bridge
 80 Bridge
C 07 Communication controller
 00 Serial controller
  00 8250
  01 16450
  02 16550
  03 16650
  04 16750
  05 16850
  06 16950
 01 Parallel controller
  00 SPP

01 BiDir
02 ECP
03 IEEE1284
fe IEEE1284 Target
02 Multiport serial controller
03 Modem
00 Generic
01 Hayes/16450
02 Hayes/16550
03 Hayes/16650
04 Hayes/16750
04 GPIB controller
05 Smard Card controller
80 Communication controller
C 08 Generic system peripheral
00 PIC
00 8259
01 ISA PIC
02 EISA PIC
10 IO-APIC
20 IO(X)-APIC
01
DMA controller
00 8237
01 ISA DMA
02 EISA DMA
02 Timer
00 8254
01 ISA Timer
02 EISA Timers
03 RTC
00 Generic
01 ISA RTC
04 PCI Hot-plug controller
05 SD Host controller
80 System peripheral
C 09 Input device controller
00 Keyboard controller
01 Digitizer Pen
02 Mouse controller
03 Scanner controller
04 Gameport controller
00 Generic
10 Extended
80 Input device controller
C 0a Docking station
00 Generic Docking Station
80 Docking Station

C 0b Processor
 00 386
 01 486
 02 Pentium
 10 Alpha
 20 Power PC
 30 MIPS
 40 Co-processor
C 0c Serial bus controller
 00 FireWire (IEEE 1394)
  00 Generic
  10 OHCI
 01 ACCESS Bus
 02 SSA
 03 USB Controller
  00 UHCI
  10 OHCI
  20 EHCI
  80 Unspecified
  fe USB Device
 04 Fibre Channel
 05 SMBus
 06 InfiniBand
 07 IPMI SMIC interface
 08 SERCOS interface
 09 CANBUS
C 0d Wireless controller
 00 IRDA controller
 01 Consumer IR controller
 10 RF controller
 11
  Bluetooth
 12 Broadband
 20 802.1a controller
 21 802.1b controller
 80 Wireless controller
C 0e Intelligent controller
 00 I2O
C 0f Satellite communications controller
 01 Satellite TV controller
 02 Satellite audio communication controller
 03 Satellite voice communication controller
 04 Satellite data communication controller
C 10 Encryption controller
 00 Network and computing encryption device
 10 Entertainment encryption device
 80 Encryption controller
C 11 Signal processing controller

00 DPIO module
01 Performance counters
10 Communication synchronizer
20 Signal processing management
80 Signal processing controller

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/pci.ids
No license file was found, but licenses were detected in source scan.

Name: pciutils
Version: @VERSION@
Release: 1
Source: ftp://atrey.karlin.mff.cuni.cz/pub/linux/pci/%{name}-%{version}.tar.gz
Copyright: GNU GPL
Buildroot: /tmp/%{name}-%{version}-root
ExclusiveOS: Linux
Summary: The PCI Utilities
Summary(pl): Narzdzia do manipulacji ustawieniami urzdze PCI
Group: Utilities/System

%description
This package contains various utilities for inspecting and
setting of devices connected to the PCI bus.

%description -l pl
Pakiet zawiera narzdzia do ustawiania i odczytywania informacji
o urzdzeniach podczonych do szyny PCI w Twoim komputerze.

%description -l de
Dieses Paket enthlt verschiedene Programme zum Anzeigen und
Einstellen von PCI-Bus Erweiterungen.

%prep
%setup -q

%build
make OPT="$RPM_OPT_FLAGS"

%install
rm -rf $RPM_BUILD_ROOT
make install PREFIX=$RPM_BUILD_ROOT/usr ROOT=$RPM_BUILD_ROOT/ \
  MANDIR=$RPM_BUILD_ROOT/%{_mandir}

%files
%defattr(0644, root, root,

0755)
%attr(0644, root, man) %{_mandir}/man8/*
%attr(0711, root, root) /usr/sbin/*
%config /usr/share/pci.ids
%doc README ChangeLog pciutils.lsm

%clean
rm -rf $RPM_BUILD_ROOT

%changelog
* Tue Sep 29 1998 Krzysztof G. Baranowski <kgb@knm.org.pl>
[1.07-1]
- build from non-root account against glibc-2.0
- written spec from scratch

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/pciutils.spec
No license file was found, but licenses were detected in source scan.

/*
* The PCI Library -- Device Filtering
*
* Copyright (c) 1998--2003 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/filter.c
No license file was found, but licenses were detected in source scan.

/*
* The PCI Library -- Reading of Bus Dumps
*
* Copyright (c) 1997--2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/dump.c
No license file was found, but licenses were detected in source scan.

/*
* The PCI Library -- Access to i386 I/O ports on Linux

*
* Copyright (c) 1997--2006 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/i386-io-linux.h
No license file was found, but licenses were detected in source scan.

/*
* The PCI Library -- Initialization and related things
*
* Copyright (c) 1997--2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/init.c
No license file was found, but licenses were detected in source scan.

/*
* The PCI Library -- Access to i386 I/O ports on Windows
*
* Copyright (c) 2004 Alexander Stock <stock.alexander@gmx.de>
* Copyright (c) 2006 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/i386-io-windows.h
No license file was found, but licenses were detected in source scan.

/*
* The PCI Library -- AIX /dev/pci[0-n] access
*
* Copyright (c) 1999 Jari Kirma <kirma@cs.hut.fi>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-

pciutils-cec9f7e/lib/aix-device.c
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Library -- Types and Format Strings
*
* Copyright (c) 1997--2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/types.h
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Library -- Example of use (simplistic lister of PCI devices)
*
* Written by Martin Mares and put to public domain. You can do
* with it anything you want, but I don't give you any warranty.
*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/example.c
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Utilities -- List All PCI Devices
*
* Copyright (c) 1997--2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lspci.c
No license file was found, but licenses were detected in source scan.

```
/*
* The PCI Library -- Internal Stuff
*
* Copyright (c) 1997--2008 Martin Mares <mj@ucw.cz>
*
* Can be freely distributed and used under the terms of the GNU GPL.
*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/internal.h
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```
/*
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*
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*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/names-parse.c
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```
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```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/access.c
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```
/*
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*/
```

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/proc.c
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```
/*
* The PCI Library -- ID to Name Hash
*
```

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*/

Found in path(s):
* /opt/cola/permits/1813616266_1696512060.9455817/0/distrotech-pciutils-v3-0-0-0-gcec9f7e-1-tar-gz/Distrotech-pciutils-cec9f7e/lib/names-hash.c

1.496 libnsl 2.7

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1.497 busybox 1.35.0

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jseward@bzip.org
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1.499 libcap 2.66

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1.500 c-ares 1.18.1

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1.501 tcpdump 4.99.1

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```
# -*- perl -*-

$testlist = [
  # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,
  # which OpenBSD treats as DLT_LOOP. The macro is set on all three BSDs.
  {
    config_unset => 'HAVE_NET_IF_PFLOG_H',
    name => 'heap-overflow-1',
    input => 'heap-overflow-1.pcap',
```

```
      output => 'heap-overflow-1.out',
      args   => '-v'
   },
];

1;
```

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1.502 util-linux 2.38.0

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```
NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
```

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
```

```
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B  "1
x   ?"U@,5  @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
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*
/opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/extern.h
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*/

Found in path(s):
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/tftp.c
*
 /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/main.c
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/common/tftpsubs.c
No license file was found, but licenses were detected in source scan.

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* SUCH DAMAGE.
*/

Found
 in path(s):
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.c
No license file was found, but licenses were detected in source scan.

/* -- *
*
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*
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*   as the "OpenBSD" operating system, distributed at
*   http://www.openbsd.org/.
*
* -- */

Found in path(s):
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.h
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server

```
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp-server package provides
 the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*
```

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun
 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>

- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update
 to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).

- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000
 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

* Tue
 Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
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Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp-server package
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server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

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if [ $1 = 0 ]; then
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fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*
```

%files
 server
%defattr(-,root,root)
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Found in path(s):
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec.in
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Found in path(s):
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.8.in
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/MCONFIG.in
No license file was found, but licenses were detected in source scan.

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* http://www.openbsd.org/.
*
* -- */

Found in path(s):
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/remap.h
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/misc.c
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/remap.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

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*
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* http://www.openbsd.org/.
*
* -- */

Found in path(s):
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.c
* /opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.h

1.504 python 2.7.18

1.504.1 Available under license :

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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Thanks to the many outside volunteers who have worked under Guido's
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6 12544 16127 3584 1.8M

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B  "1
```

x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

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1.506 libpng 1.6.39

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1.507 vim 8.2

1.507.1 Available under license :

uganda.txt For Vim version 8.2. Last change: 2019 Dec 07

VIM REFERENCE MANUAL by Bram Moolenaar

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http://iccf-holland.org/
http://www.vim.org/iccf/
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You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

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==
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there
is enough food. But this district is suffering from AIDS more than any other
part of the world. Some say that it started there. Estimations are that 10
to 30% of the Ugandans are infected with HIV. Because parents
 die, there are
many orphans. In this district about 60,000 children have lost one or both
parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy
with food, medical care and education. Food and medical care to keep them
healthy now, and education so that they can take care of themselves in the
future. KCC works on a Christian base, but help is given to children of any
religion.

The key to solving the problems in this area is education. This has been
neglected in the past years with president Idi Amin and the following civil

wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

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How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o.
box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If
you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774

IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

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Others: Transfer to one of these accounts if possible:
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Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
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Swift code: RABO NL 2U
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8134 Adliswil
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vim:tw=78:ts=8:noet:ft=help:norl:

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Version 2.1, February 1999

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1.508 e2fsprogs 1.46.5

1.508.1 Available under license :

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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```
Public License can be found in `/usr/share/common-licenses/GPL-2'.
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
```

$(RM) -f ../$(BSD_LIB)

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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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    ** library. This does NOT imply that all of Samba is released
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Gadi Oxman, August 1995

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Theodore Ts'o
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[This is the first released version of the library GPL. It is
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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>,
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1.509 acl 2.3.01

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1.511 wget 1.21.4

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1.512 sysstat 12.4.5

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1.513 rsync 3.2.5

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
```

```
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B  "1
x   ?"U@,5  @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
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FAQ:
====

The
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Q: Is it possible to create derived works of syslog-ng under the GPL/LGPL
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A: Yes, that's exactly the point of open source. Works derived from the
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them as well.

Q: Do I need to sign a Contributory License Agreement in order for my
contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to

have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the
syslog-ng core but not derived works of other plugins. Thus, non-free
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.\"   notice, this list of conditions and the following disclaimer in the
.\"   documentation and/or other materials provided with the distribution.
.\" 3. Neither the name of the University nor the names of its contributors
.\"   without specific prior written permission.

Found in path(s):
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.1.in

No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/MCONFIG.in
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 0.49
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildPreReq: tcp_wrappers
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides the
server
for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

```
%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
```

- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun 21 2002
Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to
 tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin
 Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

* Tue Jan
  4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec
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Found in path(s):
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.h
*
 /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/extern.h
No license file was found, but licenses were detected in source scan.

```
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*   http://www.openbsd.org/.
*
* ---------------------------------------------------------------------- */
```

Found in path(s):
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.c
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.h
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```
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*   http://www.openbsd.org/.
*
* ---------------------------------------------------------------------- */
```

Found in path(s):
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.c
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.h
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/misc.c
No license file was found, but licenses were detected in source scan.

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.\"    without specific prior written permission.
```

Found in path(s):
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.8.in
No license file was found, but licenses were detected in source scan.

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* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.c
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildPreReq: tcp_wrappers
BuildRoot: %{_tmppath}/%{name}-root

```
%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine.  This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp-server package provides
 the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi
```

```
%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30
```

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun
 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

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- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update
 to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>

- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000
 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed

- fix description and summary

* Tue
Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

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- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

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- tftpd should truncate file when overwriting (#412)

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- auto rebuild in the new build environment (release 22)

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- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec.in
No license file was found, but licenses were detected in source scan.

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* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.c
*
 /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.c
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/main.c
No license file was found, but licenses were detected in source scan.

/* -*- c -*- ------------------------------------------------------------ *
*
*   Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
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*   http://www.openbsd.org/.
*
* ---------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1821583603_1697224131.7666922/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/config.h
```

1.520 net-snmp 5.1

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1.522 hwloc 1.11.13

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1.523 busybox 1.21.0

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1.524 dnsmasq 2.87

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1.525 python 2.7.12

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
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DRuntime: Runtime Library for the D Programming Language
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Version 3, 29 June 2007

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1.530 cracklib 2.9.8

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source
file to most
effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor,
Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

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

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,

it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
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=20
change until it was mentioned in the latest notes.

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eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20

thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

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Nathan Neulinger EMail: nneul@um...
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> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
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> applications are also GPL-2 which imo is just wrong. it isnt the

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> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a

> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
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> > I am sympathetic. Guys, what do you reckon?
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> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
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> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
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> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
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> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From
 alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit

From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.531 pam 1.5.2

1.531.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts

as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know

that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in

non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order
to run.
^L

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based

on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the
ordinary GNU General Public
License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
^L
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference

directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

It may happen that this requirement contradicts the license

restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
^L
7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
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1.536 diffutils 3.10

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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2.1.1		2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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You can report issues or suggest changes directly to `validate-pyproject`
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file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
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2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes

2.5.2	2.5.1	2008	PSF	yes
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2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
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3.1.2	3.1	2010	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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2.1.1	2.1+2.0.1	2001	PSF	yes
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Name: setuptools
Version: 20.10.1
Summary: Easily download, build, install, upgrade, and uninstall Python packages
Home-page: https://github.com/pypa/setuptools
Author: Python Packaging Authority
Author-email: distutils-sig@python.org
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Description: ================================
    Installing and Using Setuptools
    ================================

    .. contents:: **Table of Contents**

    `Change History <https://pythonhosted.org/setuptools/history.html>`_.

Installation Instructions

The recommended way to bootstrap setuptools on any system is to download
`ez_setup.py`_ and run it using the target Python environment. Different
operating systems have different recommended techniques to accomplish this
basic routine,
so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools
on Python 2.4 or Python 2.5, use the `bootstrap script for Setuptools 1.x
<https://raw.githubusercontent.com/pypa/setuptools/bootstrap-py24/ez_setup.py>`_.

The link provided to ez_setup.py is a bookmark to bootstrap script for the
latest known stable release.

.. _ez_setup.py: https://bootstrap.pypa.io/ez_setup.py

Windows (Powershell 3 or later)
==========

For best results, uninstall previous versions FIRST (see `Uninstalling`_).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows
with PowerShell 3 installed, it's possible to install with one simple
Powershell command. Start up Powershell and paste this command::

    > (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content
| python -

You must start the Powershell with Administrative privileges or you may choose
to install a user-local installation::

    > (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python - --user

If you have Python 3.3 or later, you can use the ``py`` command to install to
different Python versions. For example, to install to Python 3.3 if you have
Python 2.7 installed::

    > (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -

The recommended way to install setuptools on Windows is to download
`ez_setup.py`_ and run it. The script will download the appropriate
distribution file and install it for you.

Once installation is complete, you will find an ``easy_install`` program in
your Python ``Scripts`` subdirectory. For simple invocation and best results,

add this
directory to your ``PATH`` environment variable, if it is not already
present. If you did a user-local install, the ``Scripts`` subdirectory is
``$env:APPDATA\Python\Scripts``.

Windows (simplified)
====================

For Windows without PowerShell 3 or for installation without a command-line,
download `ez_setup.py`_ using your preferred web browser or other technique
and "run" that file.

Unix (wget)
===========

Most Linux distributions come with wget.

Download `ez_setup.py`_ and run it using the target Python version. The script
will download the appropriate version and install it for you::

    > wget https://bootstrap.pypa.io/ez_setup.py -O - | python

Note that you will may need to invoke the command with superuser privileges to
install to the system Python::

    > wget
https://bootstrap.pypa.io/ez_setup.py -O - | sudo python

Alternatively, Setuptools may be installed to a user-local path::

    > wget https://bootstrap.pypa.io/ez_setup.py -O - | python - --user

Note that on some older systems (noted on Debian 6 and CentOS 5 installations),
`wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.c.ssl.fastly.net`
does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter
similar problems using
`wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of
`www.python.org` does not match the
host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget`
(see `Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>`_). If you happen to encounter
them,
install Setuptools as follows::

    > wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
    > python ez_setup.py --insecure

Unix including Mac OS X (curl)
==============================

If your system has curl installed, follow the ``wget`` instructions but
replace ``wget`` with ``curl`` and ``-O`` with ``-o``. For example::

    > curl https://bootstrap.pypa.io/ez_setup.py -o - | python

Advanced Installation
=====================

For more advanced installation options, such as installing to custom
locations or prefixes, download and extract the source
tarball from `Setuptools on PyPI <https://pypi.python.org/pypi/setuptools>`_
and run setup.py with any supported distutils and Setuptools options.
For example::

    setuptools-x.x$ python setup.py install --prefix=/opt/setuptools

Use ``--help``
to get a full options list, but we recommend consulting
the `EasyInstall manual`_ for detailed instructions, especially `the section
on custom installation locations`_.

.. _EasyInstall manual: https://pythonhosted.org/setuptools/EasyInstall
.. _the section on custom installation locations: https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations

Downloads
=========

All setuptools downloads can be found at `the project's home page in the Python
Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: https://pypi.python.org/pypi/setuptools

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the `Bitbucket repo`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _Bitbucket repo: https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev
.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

Uninstalling
============

On Windows, if Setuptools was installed using an ``.exe`` or ``.msi``
installer, simply use the uninstall feature of "Add/Remove Programs" in the
Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python
version, delete all ``setuptools*`` and ``distribute*`` files and
directories from your system's ``site-packages`` directory
(and any other ``sys.path`` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute,
nothing further needs to be done. If you want to completely remove Setuptools,
you may also want to remove the 'easy_install' and 'easy_install-x.x'
scripts
and associated executables installed to the Python scripts directory.

Using Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for
learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig
mailing list`_. If you have written (or know of) any tutorials, documentation,
plug-ins, or other resources for setuptools users, please let us know about
them there, so this reference list can be updated. If you have working,
tested patches to correct problems or add features,
you may submit them to
the `setuptools bug tracker`_.

.. _setuptools bug tracker: https://github.com/pypa/setuptools/issues
.. _The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
.. _The setuptools Developer's Guide: https://pythonhosted.org/setuptools/setuptools.html
.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html
.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

Credits

----

* The original design for the ``.egg`` format and the ``pkg_resources`` API was
  co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first
  version of ``pkg_resources``, and supplied the OS X operating system version
  compatibility
algorithm.

* Ian Bicking implemented many early "creature comfort" features of
  easy_install, including support for downloading via Sourceforge and
  Subversion repositories. Ian's comments on the Web-SIG about WSGI
  application deployment also inspired the concept of "entry points" in eggs,
  and he has given talks at PyCon and elsewhere to inform and educate the
  community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various
  aspects of ``easy_install``, and supplied the doctests for the command-line
  ``.exe`` wrappers on Windows.

* Phillip J. Eby is the seminal author of setuptools, and
  first proposed the idea of an importable binary distribution format for
  Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open

Source Applications Foundation, to provide a plug-in infrastructure for the
  Chandler PIM application. In addition, many OSAF staffers (such as Mike
  "Code Bear" Taylor) contributed their time and stress as guinea pigs for the
  use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

* Tarek Ziadé is the principal author of the Distribute fork, which
  re-invigorated the community on the project, encouraged renewed innovation,
  and addressed many defects.

* Since the merge with Distribute, Jason R. Coombs is the
  maintainer of setuptools. The project is maintained in coordination with
  the Python Packaging Authority (PyPA) and the larger Python community.

.. _files:

Code of Conduct

Everyone interacting in the setuptools project's codebases, issue trackers,

chat rooms, and mailing lists is expected to follow the
`PyPA Code of Conduct`_.

.. _PyPA Code of Conduct: https://www.pypa.io/en/latest/code-of-conduct/

Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
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Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: System :: Archiving :: Packaging
Classifier: Topic :: System :: Systems Administration
Classifier: Topic :: Utilities

Found in path(s):
* /opt/cola/permits/1826444911_1697749384.3528833/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/PKG-INFO
*
/opt/cola/permits/1826444911_1697749384.3528833/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/setuptools.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1826444911_1697749384.3528833/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/__init__.py
* /opt/cola/permits/1826444911_1697749384.3528833/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/requirements.py
* /opt/cola/permits/1826444911_1697749384.3528833/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/__about__.py
* /opt/cola/permits/1826444911_1697749384.3528833/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/_structures.py
* /opt/cola/permits/1826444911_1697749384.3528833/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/version.py
* /opt/cola/permits/1826444911_1697749384.3528833/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/specifiers.py
*
/opt/cola/permits/1826444911_1697749384.3528833/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/_compat.py

* /opt/cola/permits/1826444911_1697749384.3528833/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/utils.py
* /opt/cola/permits/1826444911_1697749384.3528833/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/markers.py
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Found in path(s):
* /opt/cola/permits/1826444911_1697749384.3528833/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/six.py
No license file was found, but licenses were detected in source scan.

==========
Building and Distributing Packages with Setuptools
==========

``Setuptools`` is a collection of enhancements to the Python ``distutils``
(for Python 2.6 and up) that allow developers to more easily build and
distribute Python packages, especially ones that have dependencies on other
packages.

Packages built and distributed using ``setuptools`` look to the user like
ordinary Python packages based on the ``distutils``. Your users don't need to
install or even know about setuptools in order to use them, and you don't
have to include the entire setuptools package in your distributions. By
including just a single `bootstrap module`_ (a 12K .py file), your package will
automatically download and install ``setuptools`` if the user is building your
package from source and doesn't have a suitable version already installed.

.. _bootstrap
 module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using
 the `EasyInstall tool <easy_install.html>`_,
 which supports downloading via HTTP, FTP, Subversion, and SourceForge, and
 automatically scans web pages linked from PyPI to find download links. (It's
 the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ -
 a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them
 individually in setup.py

* Automatically include all relevant files in your source distributions,
 without needing to create a ``MANIFEST.in`` file, and without having to force
 regeneration of the ``MANIFEST`` file when your source tree changes.

* Automatically generate wrapper scripts or Windows
 (console and GUI) .exe
 files for any number of "main" functions in your project. (Note: this is not
 a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list ``.pyx`` files and
 still work even when the end-user doesn't have Pyrex installed (as long as
 you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut
 names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on
 ``sys.path``, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or ``setup()`` arguments, and
 distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover
 extensions,
 using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the `Python SVN sandbox`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`_

Developer's Guide

Installing ``setuptools``
=========================

Please follow the `EasyInstall Installation Instructions`_ to install the
current stable version of setuptools. In particular, be sure to read the
section on `Custom Installation Locations`_ if you are installing anywhere
other than Python's ``site-packages`` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

..
 _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first
install a stable version, and then run::

  ez_setup.py setuptools==dev

This will download and install the latest development (i.e. unstable) version
of setuptools from the Python Subversion sandbox.

Basic Use
=========

For basic use of setuptools, just import things from setuptools instead of
the distutils. Here's a minimal setup script using setuptools::

```
  from setuptools import setup, find_packages
  setup(
      name = "HelloWorld",
      version = "0.1",
      packages = find_packages(),
  )
```

As you can see, it doesn't take much to use setuptools in a project.
Run that script in your project folder, alongside the Python packages
you have developed.

Invoke that script to produce eggs, upload to
PyPI, and automatically include all packages in the directory where the
setup.py lives. See
 the `Command Reference`_ section below to see what
commands you can give to this setup script. For example,

to produce a source distribution, simply invoke::

```
python setup.py sdist
```

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts::

```
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],

    # Project uses reStructuredText, so ensure that the docutils get
    # installed or upgraded on the target machine
    install_requires = ['docutils>=0.3'],

    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '': ['*.txt', '*.rst'],
        # And include any *.msg
files found in the 'hello' package, too:
        'hello': ['*.msg'],
    },

    # metadata for upload to PyPI
    author = "Me",
    author_email = "me@example.com",
    description = "This is an Example Package",
    license = "PSF",
    keywords = "hello world example examples",
    url = "http://example.com/HelloWorld/",   # project home page, if any

    # could also include long_description, download_url, classifiers, etc.
)
```

In the sections that follow, we'll explain what most of these ``setup()`` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

Specifying Your Project's Version

Setuptools can work well with most versioning schemes; there are, however, a

few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things
will also help you correctly specify what
versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as ``2.4`` or ``0.5``. Each series of digits is treated numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the same release number, denoting the first subrelease of release 2. But ``2.10`` is the *tenth* subrelease of release 2, and so is a different and newer release from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision ``2.4`` is *newer* than revision ``2.4c1``, which in turn is newer than ``2.4b1`` or ``2.4a1``. Postrelease
tags make
a version be considered *newer* than the version they are appended to. So, revisions like ``2.4-1`` and ``2.4pl3`` are newer than ``2.4``, but are *older* than ``2.4.1`` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include ``alpha``, ``beta``, ``a``, ``c``, ``dev``, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, ``2.4c1`` and ``2.4.c1`` and ``2.4-c1`` all represent release candidate 1 of version ``2.4``, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter ``c``: ``pre``, ``preview``, and ``rc``. So, version ``2.4rc1``, ``2.4pre1`` and ``2.4preview1`` are all the exact same version as ``2.4c1``, and are treated as identical by setuptools.

A post-release
tag is either a series of letters that are alphabetically
greater than or equal to "final", or a dash (``-``). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example,

``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that ``dev`` is a pre-release tag, so this version is a *lower* version number than ``0.6a9``, which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the
most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number between them. Version ``1.9adev`` is the ``adev`` prerelease of ``1.9``, *not* a development pre-release of ``1.9a``. Use ``.dev`` instead, as in ``1.9a.dev``, or separate the prerelease tags with a number, as in ``1.9a0dev``. ``1.9a.dev``, ``1.9a0dev``, and even ``1.9.a.dev`` are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the ``pkg_resources.parse_version()`` function to compare different version numbers::

  >>> from pkg_resources import parse_version
  >>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
  True
  >>> parse_version('2.1-rc2') < parse_version('2.1')
  True
  >>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
  True

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`_
* `Managing "Continuous Releases" Using Subversion`_
* The `egg_info`_ command

New and Changed ``setup()`` Keywords
====================================

The following keyword arguments to ``setup()`` are added or changed by ``setuptools``. All of them are optional; you do not have to supply them unless you need the associated ``setuptools`` feature.

``include_package_data``
  If set to ``True``, this tells ``setuptools`` to automatically include any

data files it finds inside your package directories that are specified by your ``MANIFEST.in`` file. For more information, see the section below on `Including Data Files`_.

``exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back any excess files included by ``include_package_data``. For a complete description and examples, see the section below on `Including Data Files`_.

``package_data``
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`_. You do not need to use this option if you are using ``include_package_data``, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied,
the ``bdist_egg`` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies`_ for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins`_ for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`_.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to
support those features. See the section below on `Declaring Dependencies`_ for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to

be present in order for the *setup script* to run. ``setuptools`` will attempt to obtain these (even going so far as to download them using ``EasyInstall``) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in ``setup_requires`` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the ./.eggs directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script
is run, you should add them to ``install_requires``
and ``setup_requires``.)

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by ``setup_requires`` or ``tests_require``. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an ``.egg`` file.

``namespace_packages``
A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's ``zope`` package is a namespace package, because subpackages like ``zope.interface`` and ``zope.publisher`` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace
package, and as long as the namespace package's ``__init__.py`` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages`_ for more information.

``test_suite``
A string naming a ``unittest.TestCase`` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a ``unittest.TestSuite``. If the named suite is a module, and the module has an ``additional_tests()`` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test`_ command to run the specified test suite, e.g. via ``setup.py test``. See the section on the `test`_ command below for more details.

``tests_require``
  If your project's tests need
 one or more additional packages besides those
  needed to install it, you can use this option to specify them. It should
  be a string or list of strings specifying what other distributions need to
  be present for the package's tests to run. When you run the ``test``
  command, ``setuptools`` will attempt to obtain these (even going
  so far as to download them using ``EasyInstall``). Note that these
  required projects will *not* be installed on the system where the tests
  are run, but only downloaded to the project's setup directory if they're
  not already installed locally.

.. _test_loader:

``test_loader``
  If you would like to use a different way of finding tests to run than what
  setuptools normally uses, you can specify a module name and class name in
  this argument. The named class must be instantiable with no arguments, and
  its instances must support the ``loadTestsFromNames()`` method as defined
  in the Python ``unittest`` module's ``TestLoader``
 class. Setuptools will
  pass only one test "name" in the `names` argument: the value supplied for
  the ``test_suite`` argument. The loader you specify may interpret this
  string in any way it likes, as there are no restrictions on what may be
  contained in a ``test_suite`` string.

  The module name and class name must be separated by a ``:``. The default
  value of this argument is ``"setuptools.command.test:ScanningLoader"``. If
  you want to use the default ``unittest`` behavior, you can specify
  ``"unittest:TestLoader"`` as your ``test_loader`` argument instead. This
  will prevent automatic scanning of submodules and subpackages.

  The module and class you specify here may be contained in another package,
  as long as you use the ``tests_require`` option to ensure that the package
  containing the loader class is available when the ``test`` command is run.

``eager_resources``
  A list of strings naming resources that should be extracted
 together, if
  any of them is needed, or if any C extensions included in the project are
  imported. This argument is only useful if the project will be installed as
  a zipfile, and there is a need to have all of the listed resources be
  extracted to the filesystem *as a unit*. Resources listed here
  should be '/'-separated paths, relative to the source root, so to list a
  resource ``foo.png`` in package ``bar.baz``, you would include the string
  ``bar/baz/foo.png`` in this argument.

  If you only need to obtain resources one at a time, or you don't have any C

extensions that access other files in the project (such as data files or
shared libraries), you probably do NOT need this argument and shouldn't
mess with it. For more details on how this argument works, see the section
below on `Automatic Resource Extraction`_.

``use_2to3``
Convert the source code from Python 2 to Python 3 with 2to3 during the
build process. See :doc:`python3`
for more details.

``convert_2to3_doctests``
List of doctest source files that need to be converted with 2to3.
See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during
the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``

For simple projects, it's usually easy enough to manually add packages to
the ``packages`` argument of ``setup()``. However, for very large projects
(Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the
package list updated. That's what ``setuptools.find_packages()`` is for.

``find_packages()`` takes a source directory and two lists of package name
patterns to exclude and include. If omitted, the source directory defaults to
the same
directory as the setup script. Some projects use a ``src`` or ``lib``
directory as the root of their source tree, and those projects would of course
use ``"src"`` or
``"lib"`` as the first argument to ``find_packages()``. (And
such projects also need something like ``package_dir = {'':'src'}`` in their
``setup()`` arguments, but that's just a normal distutils thing.)

Anyway, ``find_packages()`` walks the target directory, filtering by inclusion
patterns, and finds Python packages (any directory). On Python 3.2 and
earlier, packages are only recognized if they include an ``__init__.py`` file.
Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including
wildcards. For
example, ``find_packages(exclude=["*.tests"])`` will exclude all packages whose
last name part is ``tests``. Or, ``find_packages(exclude=["*.tests",
"*.tests.*"])`` will also exclude any subpackages of packages named ``tests``,
but it still won't exclude a top-level ``tests`` package or the children

thereof. In fact, if you really want no ``tests`` packages at all, you'll need
something like this::

```
   find_packages(exclude=["*.tests", "*.tests.*", "tests.*", "tests"])
```

in order to cover all the bases. Really, the exclusion patterns are intended
to cover simpler use cases than this, like excluding a single, specified
package and its subpackages.

Regardless of the parameters, the ``find_packages()``
function returns a list of package names suitable for use as the ``packages``
argument to ``setup()``, and so is usually the easiest way to set that
argument in your setup script. Especially since it frees you from having to
remember to modify your setup script whenever your project grows additional
top-level packages or subpackages.

Automatic Script Creation
=========================

Packaging and installing scripts can be a bit awkward with the distutils. For
one thing, there's no easy way to have a script's filename match local
conventions on both Windows and POSIX platforms. For another, you often have
to create a separate file just for the "main" script, when your actual
 "main"
is a function in a module somewhere. And even in Python 2.4, using the ``-m``
option only works for actual ``.py`` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts
for you with the correct extension, and on Windows it will even create an
``.exe`` file so that users don't have to change their ``PATHEXT`` settings.
The way to use this feature is to define "entry points" in your setup script
that indicate what function the generated script should import and run. For
example, to create two console scripts called ``foo`` and ``bar``, and a GUI
script called ``baz``, you might do something like this::

```
  setup(
     # other arguments here...
     entry_points={
        'console_scripts': [
           'foo = my_package.some_module:main_func',
           'bar = other_module:some_func',
        ],
        'gui_scripts': [
           'baz = my_package_gui:start_func',

]
     }
```

)

When this project is installed on non-Windows platforms (using "setup.py
install", "setup.py develop", or by using EasyInstall), a set of ``foo``,
``bar``, and ``baz`` scripts will be installed that import ``main_func`` and
``some_func`` from the specified modules. The functions you specify are called
with no arguments, and their return value is passed to ``sys.exit()``, so you
can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are
created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The
``.exe`` wrappers find and execute the right version of Python to run the
``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you
like, and each one can optionally specify "extras" that it depends on, that
will be added to ``sys.path`` when the script is run. For more information on
"extras", see the section below on `Declaring Extras`_.
 For more information
on "entry points" in general, see the section below on `Dynamic Discovery of
Services and Plugins`_.

"Eggsecutable" Scripts

Occasionally, there are situations where it's desirable to make an ``.egg``
file directly executable. You can do this by including an entry point such
as the following::

```
setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ]
    }
)
```

Any eggs built from the above setup script will include a short executable
prelude that imports and calls ``main_func()`` from ``my_package.some_module``.
The prelude can be run on Unix-like platforms (including Mac and Linux) by
invoking the egg with ``/bin/sh``, or by enabling execute permissions on the
``.egg`` file. For the executable prelude to run, the appropriate version of
Python must be available via the ``PATH`` environment variable,
 under its
"long" name. That is, if the egg is built for Python 2.3, there must be a
``python2.3`` executable present in a directory on ``PATH``.

This feature is primarily intended to support ez_setup the installation of
setuptools itself on non-Windows platforms, but may also be useful for other
projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or
invoked via symlinks. They *must* be invoked using their original filename, in
order to ensure that, once running, ``pkg_resources`` will know what project
and version is in use. The header script will check this and exit with an
error if the ``.egg`` file has been renamed or is invoked via a symlink that
changes its base name.

Declaring Dependencies
======================

``setuptools`` supports automatically installing dependencies when a package is
installed, and including information about dependencies in Python Eggs (so that
package management tools like EasyInstall can use the information).

``setuptools``
 and ``pkg_resources`` use a common syntax for specifying a
project's required dependencies. This syntax consists of a project's PyPI
name, optionally followed by a comma-separated list of "extras" in square
brackets, optionally followed by a comma-separated list of version
specifiers. A version specifier is one of the operators ``<``, ``>``, ``<=``,
``>=``, ``==`` or ``!=``, followed by a version identifier. Tokens may be
separated by whitespace, but any whitespace or nonstandard characters within a
project name or version identifier must be replaced with ``-``.

Version specifiers for a given project are internally sorted into ascending
version order, and used to establish what ranges of versions are acceptable.
Adjacent redundant conditions are also consolidated (e.g. ``">1, >2"`` becomes
``">1"``, and ``"<2,<3"`` becomes ``"<3"``). ``"!="`` versions are excised from
the ranges they fall within. A project's version is then checked for
membership in the resulting
 ranges. (Note that providing conflicting conditions
for the same version (e.g. "<2,>=2" or "==2,!=2") is meaningless and may
therefore produce bizarre results.)

Here are some example requirement specifiers::

  docutils >= 0.3

  # comment lines and \ continuations are allowed in requirement strings
  BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
     ==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST]>=0.5a4

setuptools==0.5a7

The simplest way to include requirement specifiers is to use the
``install_requires`` argument to ``setup()``. It takes a string or list of
strings containing requirement specifiers. If you include more than one
requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, ``setup.py
   install``, or ``setup.py develop``, all of the dependencies not already
   installed will be located (via PyPI), downloaded, built (if necessary),
   and installed.

2. Any scripts in your project will be installed with wrappers that verify
   the availability of the specified dependencies at runtime, and ensure that
   the correct versions are added to ``sys.path`` (e.g. if multiple versions
   have been installed).

3. Python Egg distributions will include a metadata file listing the
   dependencies.

Note, by the way, that if you declare your dependencies in ``setup.py``, you do
not need to use the ``require()`` function in your scripts or modules, as
long as you either install the project or use ``setup.py develop`` to do
development work on it. (See `"Development Mode"`_ below for more details on
using ``setup.py develop``.)

Dependencies that aren't in PyPI

If your project depends on packages that aren't registered in PyPI, you may
still be able to depend on them, as long as they are available for download
as:

- an egg, in the standard distutils ``sdist`` format,
- a single ``.py`` file,
  or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the ``dependency_links`` argument to
``setup()``.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less
complex to update a web page than to release a new version of your project.
You can also use a SourceForge ``showfiles.php`` link in the case where a
package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single ``.py`` file, you
must include an ```"#egg=project-version"`` suffix to the URL, to give a project
name and version number. (Be sure to escape any dashes in the name or version
by replacing them with underscores.) EasyInstall will recognize this suffix
and automatically create a trivial ``setup.py`` to wrap the single ``.py`` file
as an egg.

In the case of a VCS checkout, you
 should also append ``#egg=project-version``
in order to identify for what package that checkout should be used. You can
append ``@REV`` to the URL's path (before the fragment) to specify a revision.
Additionally, you can also force the VCS being used by prepending the URL with
a certain prefix. Currently available are:

- ``svn+URL`` for Subversion,
- ``git+URL`` for Git, and
- ``hg+URL`` for Mercurial

A more complete example would be:

  ``vcs+proto://host/path@revision#egg=project-version``

Be careful with the version. It should match the one inside the project files.
If you want to disregard the version, you have to omit it both in the
``requires`` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a
temporary folder and run ``setup.py bdist_egg``.

The ``dependency_links`` option takes the form of a list of URL strings. For
example, the below will cause EasyInstall to search the specified page for
eggs or source distributions,
 if the package's dependencies aren't already
installed::

```
  setup(
     ...
     dependency_links = [
        "http://peak.telecommunity.com/snapshots/"
```

```
    ],
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their ``install_requires``.

For example, let's say that Project A offers optional PDF and reST support::

```
setup(
    name="Project-A",

 ...
    extras_require = {
        'PDF':  ["ReportLab>=1.2", "RXP"],
        'reST': ["docutils>=0.3"],
    }
)
```

As you can see, the ``extras_require`` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points`_ to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
```

```
            'rst2pdf = project_a.tools.pdfgen
[PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    }
)
```

Projects can also use another project's extras when specifying dependencies.
For example, if project B needs "project A" with PDF support installed, it
might declare the dependency like this::

```
setup(
    name="Project-B",
    install_requires = ["Project-A[PDF]"],
    ...
)
```

This will cause ReportLab to be installed along with project A, if project B is
installed -- even if project A was already installed. In this way, a project
can encapsulate groups of optional "downstream dependencies" under a feature
name, so that packages that depend on it don't have to know what the downstream
dependencies are. If a later version of Project A builds in PDF support and
no longer needs ReportLab, or if it ends up needing other dependencies besides
ReportLab in order to provide PDF support, Project B's setup information
 does
not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to
support a feature, it should keep an empty requirements list for that feature
in its ``extras_require`` argument, so that packages depending on that feature
don't break (due to an invalid feature name). For example, if Project A above
builds in PDF support and no longer needs ReportLab, it could change its
setup to this::

```
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF':  [],
        'reST': ["docutils>=0.3"],
    }
)
```

so that Package B doesn't have to remove the ``[PDF]`` from its requirement
specifier.

Including Data Files
==========

The distutils have traditionally allowed installation of "data files", which
are placed in a platform-specific location. However, the most common use case
for data files distributed with a package is for use *by* the package,
 usually
by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your
packages. First, you can simply use the ``include_package_data`` keyword,
e.g.::

  from setuptools import setup, find_packages
  setup(
     ...
     include_package_data = True
)

This tells setuptools to install any data files it finds in your packages.
The data files must be specified via the distutils' ``MANIFEST.in`` file.
(They can also be tracked by a revision control system, using an appropriate
plugin. See the section below on `Adding Support for Revision Control
Systems`_ for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example,
if you have documentation files in your package directories and want to exclude
them from installation), then you can also use the ``package_data`` keyword,
e.g.::

  from setuptools import setup, find_packages
  setup(

  ...
     package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
     }
)

The ``package_data`` argument is a dictionary that maps from package names to
lists of glob patterns. The globs may include subdirectory names, if the data
files are contained in a subdirectory of the package. For example, if the
package tree looks like this::

  setup.py

```
src/
    mypkg/
        __init__.py
        mypkg.txt
        data/
            somefile.dat
            otherdata.dat
```

The setuptools setup file might look like this::

```
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'':'src'},   # tell distutils packages are under src

    package_data = {

# If any package contains *.txt files, include them:
        '': ['*.txt'],
        # And include any *.dat files found in the 'data' subdirectory
        # of the 'mypkg' package, also:
        'mypkg': ['data/*.dat'],
    }
)
```

Notice that if you list patterns in ``package_data`` under the empty string,
these patterns are used to find files in every package, even ones that also
have their own patterns listed. Thus, in the above example, the ``mypkg.txt``
file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (``/``) as
the path separator, even if you are on Windows. Setuptools automatically
converts slashes to appropriate platform-specific separators at build time.

(Note: although the ``package_data`` argument was previously only available in
``setuptools``, it was also added to the Python ``distutils`` package as of
Python 2.4; there is `some documentation for the feature`__
 available on the
python.org website. If using the setuptools-specific ``include_package_data``
argument, files specified by ``package_data`` will *not* be automatically
added to the manifest unless they are listed in the MANIFEST.in file.)

__ http://docs.python.org/dist/node11.html

Sometimes, the ``include_package_data`` or ``package_data`` options alone
aren't sufficient to precisely define what files you want included. For
example, you may want to include package README files in your revision control

system and source distributions, but exclude them from being installed. So,
setuptools offers an ``exclude_package_data`` option as well, that allows you
to do things like this::

```
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'':'src'},   # tell distutils packages are under src

    include_package_data = True,    # include everything in source control

    # ...but exclude README.txt from all packages
    exclude_package_data = { '': ['README.txt'] },
)
```

The ``exclude_package_data`` option is a dictionary mapping package names to
lists of wildcard patterns, just like the ``package_data`` option. And, just
as with that option, a key of ``''`` will apply the given pattern(s) to all
packages. However, any files that match these patterns will be *excluded*
from installation, even if they were listed in ``package_data`` or were
included as a result of using ``include_package_data``.

In summary, the three options allow you to:

``include_package_data``
  Accept all data files and directories matched by ``MANIFEST.in``.

``package_data``
  Specify additional patterns to match files and directories that may or may
  not be matched by ``MANIFEST.in`` or found in source control.

``exclude_package_data``
  Specify patterns for data files and directories that should *not* be
  included when a package is installed,
 even if they would otherwise have
  been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you
include in your project and then stop including may be "orphaned" in your
project's build directories, requiring you to run ``setup.py clean --all`` to
fully remove them. This may also be important for your users and contributors
if they track intermediate revisions of your project using Subversion; be sure
to let them know when you make changes that remove files from inclusion so they
can run ``setup.py clean --all``.

Accessing Data Files at Runtime

Typically, existing programs manipulate a package's ``__file__`` attribute in
order to find the location of data files. However, this manipulation isn't
compatible with PEP 302-based import hooks, including importing from zip files
and Python Eggs. It is strongly recommended that, if you are using data files,
you should use the `Resource
 Management API`_ of ``pkg_resources`` to access
them. The ``pkg_resources`` module is distributed as part of setuptools, so if
you're using setuptools to distribute your package, there is no reason not to
use its resource management API. See also `Accessing Package Resources`_ for
a quick example of converting code that uses ``__file__`` to use
``pkg_resources`` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files

The ``distutils`` normally install general "data files" to a platform-specific
location (e.g. ``/usr/share``). This feature intended to be used for things
like documentation, example configuration files, and the like. ``setuptools``
does not install these data files in a separate location, however. They are
bundled inside the egg file or directory, alongside
 the Python modules and
packages. The data files can also be accessed using the `Resource Management
API`_, by specifying a ``Requirement`` instead of a package name::

  from pkg_resources import Requirement, resource_filename
  filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")

The above code will obtain the filename of the "sample.conf" file in the data
root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't
actually install data files to some arbitrary location on a user's machine;
this is a feature, not a bug. You can always include a script in your
distribution that extracts and copies your the documentation or data files to
a user-specified location, at their discretion. If you put related data files
in a single directory, you can use ``resource_filename()`` with the directory
name to get a filesystem directory that then can be copied with the ``shutil``
module. (Even if your package
 is installed as a zipfile, calling
``resource_filename()`` on a directory will return an actual filesystem
directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the ``eager_resources`` argument to ``setup()``, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared
 libraries *other*
than distutils-built C extensions, and those shared libraries use file extensions other than ``.dll``, ``.so``, or ``.dylib``, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the ``native_libs.txt`` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as ``eager_resources``, because they need to be present in the filesystem when he C extensions that link to them are used.

The ``pkg_resources`` runtime for compressed packages will automatically extract *all* C extensions and ``eager_resources`` at the same time, whenever *any* C extension or eager resource is requested via the ``resource_filename()`` API. (C extensions are imported using ``resource_filename()`` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in ``eager_resources`` as well, in which
 case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of ``eager_resources`` being relevant to your project.

Extensible Applications and Frameworks

==========

.. _Entry Points:

Dynamic Discovery of Services and Plugins

``setuptools`` supports creating libraries that "plug in" to extensible
applications and frameworks, by letting you register "entry points" in
 your
project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins
that provide translation for various file types to the blog's output format.
The framework might define an "entry point group" called ``blogtool.parsers``,
and then allow plugins to register entry points for the file extensions they
support.

This would allow people to create distributions that contain one or more
parsers for different file types, and then the blogging tool would be able to
find the parsers at runtime by looking up an entry point for the file
extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it
can register these as entry points in its own setup script, which means it
doesn't have to special-case its built-in formats. They can just be treated
the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application
 or
framework, you'll need to know what entry points or entry point groups are
defined by that application or framework. Then, you can register entry points
in your setup script. Here are a few examples of ways you might register an
``.rst`` file parser entry point in the ``blogtool.parsers`` entry point group,
for our hypothetical blogging tool::

```
  setup(
     # ...
     entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
  )

  setup(
     # ...
     entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
  )

  setup(
```

```
    # ...
    entry_points = """
        [blogtool.parsers]
        .rst = some.nested.module:SomeClass.some_classmethod [reST]
    """,
    extras_require = dict(reST = "Docutils>=0.3.5")
  )
```

The ``entry_points`` argument to ``setup()`` accepts either a string with ``.ini``-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an ``=`` sign. The value consists of a dotted module name, optionally followed by a ``:`` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to ``pkg_resources.require()``, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the ``pkg_resources`` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their ``ProjectName.egg-info`` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to ``setup()``, in much the same way that ``setuptools`` does for many of the ``setup()`` arguments it adds. See the section below on `Creating distutils Extensions`_ for more details, especially the subsection on `Adding new EGG-INFO Files`_.

"Development Mode"
==========

Under normal circumstances, the ``distutils`` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the ``distutils`` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the ``distutils`` is that you may need to do development on two related
projects at the same time. You may need
to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the ``setup.py develop`` command. It works very similarly to ``setup.py install`` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special ``.egg-link`` file in the deployment directory, that links to your project's source code. And, if your deployment
directory is Python's ``site-packages`` directory, it will also
update the ``easy-install.pth`` file to include your project's source code, thereby making it available on ``sys.path`` for all programs using that Python installation.

If you have enabled the ``use_2to3`` flag, then of course the ``.egg-link`` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the ``setup.py develop`` will build Python 3 code under the ``build`` directory, and link there. This means that after doing code changes you will have to run ``setup.py build`` before these changes are picked up by your Python 3 installation.

In addition, the ``develop`` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your ``install_requires`` packages are available on ``sys.path``.

You can deploy the same project to multiple staging areas,
e.g. if you have
multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using ``setup.py develop --uninstall``, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the ``develop`` command; see the section on the `develop`_ command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects,
using commands like this::

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following
the quoted part.

Distributing a ``setuptools``-based project
==========

Using ``setuptools``... Without bundling it!

Your users might not have ``setuptools`` installed on their machines,
 or even
if they do, it might not be the right version. Fixing this is easy; just
download `ez_setup.py`_, and put it in the same directory as your ``setup.py``
script. (Be sure to add it to your revision control system, too.) Then add
these two lines to the very top of your setup script, before the script imports
anything from setuptools:

.. code-block:: python

```
import ez_setup
ez_setup.use_setuptools()
```

That's it. The ``ez_setup`` module will automatically download a matching
version of ``setuptools`` from PyPI, if it isn't present on the target system.
Whenever you install an updated version of setuptools, you should also update
your projects' ``ez_setup.py`` files, so that a matching version gets installed
on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use
``setup.py sdist upload`` or ``setup.py bdist_egg upload`` to upload your
source or egg distributions respectively. Your project's current version must
be registered
 with PyPI first, of course; you can use ``setup.py register`` to
do that. Or you can do it all in one step, e.g. ``setup.py register sdist
bdist_egg upload`` will register the package, build source and egg
distributions, and then upload them both to PyPI, where they'll be easily
found by other projects that depend on them.

(By the way, if you need to distribute a specific version of ``setuptools``,
you can specify the exact version and base download URL as parameters to the
``use_setuptools()`` function. See the function's docstring for details.)

What Your Users Should Know

In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to ``site-packages``, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the
following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and ``easy_install``.

Network Access
If your project is using ``ez_setup``, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`_. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations
You should inform your users that if they are installing your project to somewhere other than the main ``site-packages`` directory, they should first install setuptools using the instructions for `Custom Installation Locations`_, before installing your project.

Your Project's Dependencies
If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you
should list them in your installation
instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using ``easy_install``, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the ``-f`` option of ``easy_install`` to specify the directory to find eggs in. Users who have full network
access can just use ``-f``
with the URL of your download page, and ``easy_install`` will find all the

needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers

Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use ``setup.py develop`` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to
run ``setup.py clean --all`` and delete any obsolete ``.pyc`` or ``.pyo``. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't ``easy_install``! Setuptools currently supports ``bdist_rpm``, ``bdist_wininst``, and ``bdist_dumb`` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils ``install`` command, it should be able to work with ``setuptools``. Some examples of "bdist" formats that this should work with include the ``bdist_nsi`` and ``bdist_msi`` formats for Windows.

However, packaging tools that build binary distributions by running ``setup.py install`` on the
command line or as a subprocess will require
modification to work with setuptools. They should use the ``--single-version-externally-managed`` option to the ``install`` command, combined with the standard ``--root`` or ``--record`` options. See the `install command`_ documentation below for more details. The ``bdist_deb`` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the ``zip_safe`` flag

For some use cases (such as bundling as part of a larger application), Python
packages may be run directly from a zip file.
Not all packages, however, are capable of running in compressed form, because
they may expect to be able to access
 either source code or data files as
normal operating system files. So, ``setuptools`` can install your project
as a zipfile or a directory, and its default choice is determined by the
project's ``zip_safe`` flag.

You can pass a True or False value for the ``zip_safe`` argument to the
``setup()`` function, or you can omit it. If you omit it, the ``bdist_egg``
command will analyze your project's contents to see if it can detect any
conditions that would prevent it from working in a zipfile. It will output
notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the
project unsafe if it contains any C extensions or datafiles whatsoever. This
does *not* mean that the project can't or won't work as a zipfile! It just
means that the ``bdist_egg`` authors aren't yet comfortable asserting that
the project *will* work. If the project contains no C or data files, and does
no ``__file__`` or ``__path__`` introspection
 or source code manipulation, then
there is an extremely solid chance the project will work when installed as a
zipfile. (And if the project uses ``pkg_resources`` for all its data file
access, then C extensions and other data files shouldn't be a problem at all.
See the `Accessing Data Files at Runtime`_ section above for more information.)

However, if ``bdist_egg`` can't be *sure* that your package will work, but
you've checked over all the warnings it issued, and you are either satisfied it
will work (or if you want to try it for yourself), then you should set
``zip_safe`` to ``True`` in your ``setup()`` call. If it turns out that it
doesn't work, you can always change it to ``False``, which will force
``setuptools`` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using
EasyInstall to install your package. And, if you want to override for testing
purposes, you can just run ``setup.py
 easy_install --zip-ok .`` or ``setup.py
easy_install --always-unzip .`` in your project directory. to install the
package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become
more satisfied with the robustness of the ``pkg_resources`` runtime, the
"zip safety" analysis may become less conservative. However, we strongly
recommend that you determine for yourself whether your project functions
correctly when installed as a zipfile, correct any problems if you can, and

then make an explicit declaration of ``True`` or ``False`` for the ``zip_safe``
flag, so that it will not be necessary for ``bdist_egg`` or ``EasyInstall`` to
try to guess whether your project can work as a zipfile.

Namespace Packages

Sometimes, a large package is more useful if distributed as a collection of
smaller eggs. However, Python does not normally allow the contents of a
package to be retrieved from more than one location.
 "Namespace packages"
are a solution for this problem. When you declare a package to be a namespace
package, it means that the package has no meaningful contents in its
``__init__.py``, and that it is merely a container for modules and subpackages.

The ``pkg_resources`` runtime will then automatically ensure that the contents
of namespace packages that are spread over multiple eggs or directories are
combined into a single "virtual" package.

The ``namespace_packages`` argument to ``setup()`` lets you declare your
project's namespace packages, so that they will be included in your project's
metadata. The argument should list the namespace packages that the egg
participates in. For example, the ZopeInterface project might do this::

```
setup(
    # ...
    namespace_packages = ['zope']
)
```

because it contains a ``zope.interface`` package that lives in the ``zope``
namespace package. Similarly, a project for a standalone ``zope.publisher``
would also declare the ``zope``
 namespace package. When these projects are
installed and used, Python will see them both as part of a "virtual" ``zope``
package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's
``zope.app`` package is a namespace package, and in the future PEAK's
``peak.util`` package will be too.

Note, by the way, that your project's source tree must include the namespace
packages' ``__init__.py`` files (and the ``__init__.py`` of any parent
packages), in a normal Python package layout. These ``__init__.py`` files
must contain the line::

```
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that
the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's
``__init__.py``. Even though it may appear to work during development, or when
projects are installed as
 ``.egg`` files, it will not work when the projects
are installed using "system" packaging tools -- in such cases the
``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of
every project that has contents for the namespace package in question, in
order to ensure that the namespace will be declared regardless of which
project's copy of ``__init__.py`` is loaded first. If the first loaded
``__init__.py`` doesn't declare it, it will never *be* declared, because no
other copies will ever be loaded!

TRANSITIONAL NOTE
~~~~~~~~~~~~~~~~~

Setuptools automatically calls ``declare_namespace()`` for you at runtime,
but future versions may *not*. This is because the automatic declaration
feature has some negative side effects, such as needing to import all namespace
packages during the initialization of the ``pkg_resources`` runtime, and also
the need for ``pkg_resources`` to be explicitly imported before
 any namespace
packages work at all. In some future releases, you'll be responsible
for including your own declaration lines, and the automatic declaration feature
will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools
will warn you about missing ``declare_namespace()`` calls in your
``__init__.py`` files, and you should correct these as soon as possible
before the compatibility support is removed.
Namespace packages without declaration lines will not work
correctly once a user has upgraded to a later version, so it's important that
you make this change now in order to avoid having your code break in the field.
Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases

When a set of related projects are under development, it may be important to
track finer-grained version increments than you would
~~~~~~~~~~~~~~~~~

normally use for e.g.
"stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, ``setuptools`` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (``--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (``--tag-svn-revision, -r``)

* An 8-character representation of the build date (``--tag-date, -d``), as a postrelease tag

You can add these tags by adding ``egg_info`` and the desired options to the command line ahead of the ``sdist`` or ``bdist`` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info`_ command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version`_ for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate`_ command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob
pattern. So, you can use a command line like::

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with
different tagging and rotation policies, you may also want to check out the
`alias`_ command, which would let each package define an alias like ``daily``
that would perform the necessary tag, build, and rotate commands. Then, a
simpler script or cron job could just run ``setup.py daily`` in each project
directory. (And, you could also define sitewide or per-user default versions
of the ``daily`` alias, so that projects that didn't define their own would
use the appropriate defaults.)

Generating Source Distributions

``setuptools``
 enhances the distutils' default algorithm for source file
selection with pluggable endpoints for looking up files to include. If you are
using a revision control system, and your source distributions only need to
include files that you're tracking in revision control, use a corresponding
plugin instead of writing a ``MANIFEST.in`` file. See the section below on
`Adding Support for Revision Control Systems`_ for information on plugins.

If you need to include automatically generated files, or files that are kept in
an unsupported revision control system, you'll need to create a ``MANIFEST.in``
file to specify any files that the default file location algorithm doesn't
catch. See the distutils documentation for more information on the format of
the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with
``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you
from these issues and doesn't work the same
 way in any case. Unlike the
distutils, setuptools regenerates the source distribution manifest file
every time you build a source distribution, and it builds it inside the
project's ``.egg-info`` directory, out of the way of your main project
directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source
distribution is so much simpler, its ``sdist`` command omits nearly all of
the options that the distutils' more complex ``sdist`` process requires. For
all practical purposes, you'll probably use only the ``--formats`` option, if
you use any option at all.

Making your package available for EasyInstall

If you use the ``register`` command (``setup.py register``) to register your
package with PyPI, that's most of the battle right there. (See the

`docs for the register command`_ for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If
you also use the `upload`_ command to upload actual distributions of your
package, that's even better, because EasyInstall will be able to find and
download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to
PyPI, and just want your existing distributions (or perhaps a Subversion
checkout) to be used instead.

So here's what you need to do before running the ``register`` command. There
are three ``setup()`` arguments that affect EasyInstall:

``url`` and ``download_url``
These become links on your project's PyPI page. EasyInstall will examine
them to see if they link to a package ("primary links"), or whether they are
HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the
page for primary links

``long_description``
EasyInstall will check any URLs contained in this argument to see if they
are primary links.

A URL is considered a "primary
link" if it is a link to a .tar.gz, .tgz, .zip,
.egg, .egg.zip, .tar.bz2, or .exe file, or if it has an ``#egg=project`` or
``#egg=project-version`` fragment identifier attached to it. EasyInstall
attempts to determine a project name and optional version number from the text
of a primary link *without* downloading it. When it has found all the primary
links, EasyInstall will select the best match based on requested version,
platform compatibility, and other criteria.

So, if your ``url`` or ``download_url`` point either directly to a downloadable
source distribution, or to HTML page(s) that have direct links to such, then
EasyInstall will be able to locate downloads automatically. If you want to
make Subversion checkouts available, then you should create links with either
``#egg=project`` or ``#egg=project-version`` added to the URL. You should
replace ``project`` and ``version`` with the values they would have in an egg
filename. (Be sure to actually generate an egg and then use
the initial part
of the filename, rather than trying to guess what the escaped form of the
project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds
of distributions, so EasyInstall will not select a Subversion checkout for

downloading unless it has a version included in the ``#egg=`` suffix, and
it's a higher version than EasyInstall has seen in any other links for your
project.

As a result, it's a common practice to use mark checkout URLs with a version of
"dev" (i.e., ``#egg=projectname-dev``), so that users can do something like
this::

  easy_install --editable projectname==dev

in order to check out the in-development version of ``projectname``.

Managing "Continuous Releases" Using Subversion

If you expect your users to track in-development versions of your project via
Subversion, there are a few additional steps you should take to ensure that
things work smoothly
 with EasyInstall. First, you should add the following
to your project's ``setup.cfg`` file:

.. code-block:: ini

  [egg_info]
  tag_build = .dev
  tag_svn_revision = 1

This will tell ``setuptools`` to generate package version numbers like
``1.0a1.dev-r1263``, which will be considered to be an *older* release than
``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg
infrastructure (including ``setuptools``, ``pkg_resources`` and EasyInstall)
will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and
handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be
the *next* version of your software, not the last released version.
Alternately, you can leave out the ``tag_build=.dev``, and always use the
last release as a version number, so that your post-1.0 builds are labelled
``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far,
however, seem to prefer to think of their project
 as being a future version
still under development, rather than a past version being patched. It is of
course possible for a single project to have both situations, using
post-release numbering on release branches, and pre-release numbering on the
trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to

their checkout URL (as described in the previous section) with an
``#egg=projectname-dev`` suffix. This allows users to request EasyInstall
to download ``projectname==dev`` in order to get the latest in-development
code. Note that if your project depends on such in-progress code, you may wish
to specify your ``install_requires`` (or other requirements) to include
``==dev``, e.g.:

.. code-block:: python

  install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]

The above example says, "I really want at least this particular development
revision number, but feel free to follow and
 use an ``#egg=OtherProject-dev``
link if you find one". This avoids the need to have actual source or binary
distribution snapshots of in-development code available, just to be able to
depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags
as described in this section, it's a good idea to run ``setup.py develop``
after each Subversion checkin or update, because your project's version number
will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ``develop`` command will
take care of fetching the updated dependencies, building changed extensions,
etc. Be sure to also remind any of your users who check out your project
from Subversion that they need to run ``setup.py develop`` after every update
in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~

When
 you make an official release, creating source or binary distributions,
you will need to override the tag settings from ``setup.cfg``, so that you
don't end up registering versions like ``foobar-0.7a1.dev-r34832``. This is
easy to do if you are developing on the trunk and using tags or branches for
your releases - just make the change to ``setup.cfg`` after branching or
tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the
default version options on the command line, using something like::

  python setup.py egg_info -RDb "" sdist bdist_egg register upload

The first part of this command (``egg_info -RDb ""``) will override the
configured tag information, before creating source and binary eggs, registering
~~~~~~

the project with PyPI, and uploading the files. Thus, these commands will use
the plain version from your ``setup.py``, without adding the Subversion
revision number or build designation
 string.

Of course, if you will be doing this a lot, you may wish to create a personal
alias for this operation, e.g.::

  python setup.py alias -u release egg_info -RDb ""

You can then use it like this::

  python setup.py release sdist bdist_egg register upload

Or of course you can create more elaborate aliases that do all of the above.
See the sections below on the `egg_info`_ and `alias`_ commands for more ideas.

Distributing Extensions compiled with Pyrex

``setuptools`` includes transparent support for building Pyrex extensions, as
long as you define your extensions using ``setuptools.Extension``, *not*
``distutils.Extension``. You must also not import anything from Pyrex in
your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source
of your ``Extension`` objects in the setup script. ``setuptools`` will detect
at build time whether Pyrex is installed or not. If it is, then ``setuptools``
will
 use it. If not, then ``setuptools`` will silently change the
``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx``
files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C
code generated by Pyrex, as well as your original ``.pyx`` files. This means
that you will probably want to include current ``.c`` files in your revision
control system, rebuilding them whenever you check changes in for the ``.pyx``
source files. This will ensure that people tracking your project in a revision
control system will be able to build it even if they don't have Pyrex
installed, and that your source releases will be similarly usable with or
without Pyrex.

Command Reference

.. _alias:

``alias`` - Define shortcuts for commonly used commands
===

Sometimes, you need to use the same commands over and
 over, but you can't
necessarily set them as defaults. For example, if you produce both development
snapshot releases and "stable" releases of a project, you may want to put
the distributions in different places, or use different ``egg_info`` tagging
options, etc. In these cases, it doesn't make sense to set the options in
a distutils configuration file, because the values of the options changed based
on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for
an arbitrary string of commands and options, using ``setup.py alias aliasname
expansion``, where aliasname is the name of the new alias, and the remainder of
the command line supplies its expansion. For example, this command defines
a sitewide alias called "daily", that sets various ``egg_info`` tagging
options::

  setup.py alias --global-config daily egg_info --tag-svn-revision \
     --tag-build=development

Once the alias is defined, it can then be used with other setup commands,
e.g.::

   setup.py daily bdist_egg   # generate a daily-build .egg file
  setup.py daily sdist   # generate a daily-build source distro
  setup.py daily sdist bdist_egg # generate both

The above commands are interpreted as if the word ``daily`` were replaced with
``egg_info --tag-svn-revision --tag-build=development``.

Note that setuptools will expand each alias *at most once* in a given command
line. This serves two purposes. First, if you accidentally create an alias
loop, it will have no effect; you'll instead get an error message about an
unknown command. Second, it allows you to define an alias for a command, that
uses that command. For example, this (project-local) alias::

  setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg

redefines the ``bdist_egg`` command so that it always runs the ``rotate``
command afterwards to delete all but the newest egg file. It doesn't loop
indefinitely on ``bdist_egg`` because the alias is only expanded once when
used.

You
can remove a defined alias with the ``--remove`` (or ``-r``) option, e.g.::

  setup.py alias --global-config --remove daily

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The
default is to define or remove a project-specific alias, but you can use any of
the `configuration file options`_ (listed under the `saveopts`_ command, below)
to determine which distutils configuration file an aliases will be added to
(or removed from).

Note that if you omit the "expansion" argument to the ``alias`` command,
you'll get output showing that alias' current definition (and what
configuration file it's defined in). If you omit the alias name as well,
you'll get a listing of all current aliases along with their configuration
file locations.

``bdist_egg`` - Create a Python Egg for the project
==

This command generates a Python Egg (``.egg`` file) for the project.
  Python
Eggs are the preferred binary distribution format for EasyInstall, because they
are cross-platform (for "pure" packages), directly importable, and contain
project metadata including scripts and information about the project's
dependencies. They can be simply downloaded and added to ``sys.path``
directly, or they can be placed in a directory on ``sys.path`` and then
automatically discovered by the egg runtime system.

This command runs the `egg_info`_ command (if it hasn't already run) to update
the project's metadata (``.egg-info``) directory. If you have added any extra
metadata files to the ``.egg-info`` directory, those files will be included in
the new egg file's metadata directory, for use by the egg runtime system or by
any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just
use ``bdist_egg`` and you're done. But there are a few options that may
be occasionally useful:

``--dist-dir=DIR,
-d DIR``
  Set the directory where the ``.egg`` file will be placed. If you don't
  supply this, then the ``--dist-dir`` setting of the ``bdist`` command
  will be used, which is usually a directory named ``dist`` in the project
  directory.

``--plat-name=PLATFORM, -p PLATFORM``
  Set the platform name string that will be embedded in the egg's filename
  (assuming the egg contains C extensions). This can be used to override
  the distutils default platform name with something more meaningful. Keep
  in mind, however, that the egg runtime system expects to see eggs with
  distutils platform names, so it may ignore or reject eggs with non-standard
  platform names. Similarly, the EasyInstall program may ignore them when
  searching web pages for download links. However, if you are
  cross-compiling or doing some other unusual things, you might find a use
  for this option.

``--exclude-source-files``
  Don't include any modules' ``.py`` files in the egg,
 just compiled Python,
  C, and data files. (Note that this doesn't affect any ``.py`` files in the
  EGG-INFO directory or its subdirectories, since for example there may be
  scripts with a ``.py`` extension which must still be retained.) We don't
  recommend that you use this option except for packages that are being
  bundled for proprietary end-user applications, or for "embedded" scenarios
  where space is at an absolute premium. On the other hand, if your package
  is going to be installed and used in compressed form, you might as well
  exclude the source because Python's ``traceback`` module doesn't currently
  understand how to display zipped source code anyway, or how to deal with
  files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there
because they were copied from similar ``bdist`` commands used as an example for
creating this one. They may be useful for
 testing and debugging, however,
which is why we kept them:

``--keep-temp, -k``
  Keep the contents of the ``--bdist-dir`` tree around after creating the
  ``.egg`` file.

``--bdist-dir=DIR, -b DIR``
  Set the temporary directory for creating the distribution. The entire
  contents of this directory are zipped to create the ``.egg`` file, after
  running various installation commands to copy the package's modules, data,
  and extensions here.

``--skip-build``
  Skip doing any "build" commands; just go straight to the
  install-and-compress phases.

.. _develop:

``develop`` - Deploy the project source in "Development Mode"
==========

This command allows you to deploy your project's source for use in one or more
"staging areas" where it will be available for importing. This deployment is
done in such a way that changes to the project source are immediately available
in the staging area(s), without needing to run
 a build or install step after
each change.

The ``develop`` command works by creating an ``.egg-link`` file (named for the
project) in the given staging area. If the staging area is Python's
``site-packages`` directory, it also updates an ``easy-install.pth`` file so
that the project is on ``sys.path`` by default for all programs run using that
Python installation.

The ``develop`` command also installs wrapper scripts in the staging area (or
a separate directory, as specified) that will ensure the project's dependencies
are available on ``sys.path`` before running the project's source scripts.
And, it ensures that any missing project dependencies are available in the
staging area, by downloading and installing them if necessary.

Last, but not least, the ``develop`` command invokes the ``build_ext -i``
command to ensure any C extensions in the project have been built and are
up-to-date, and the ``egg_info`` command to ensure the project's metadata is
updated (so that the runtime and
 wrappers know what the project's dependencies
are). If you make any changes to the project's setup script or C extensions,
you should rerun the ``develop`` command against all relevant staging areas to
keep the project's scripts, metadata and extensions up-to-date. Most other
kinds of changes to your project should not require any build operations or
rerunning ``develop``, but keep in mind that even minor changes to the setup
script (e.g. changing an entry point definition) require you to re-run the
``develop`` or ``test`` commands to keep the distribution updated.

Here are some of the options that the ``develop`` command accepts. Note that
they affect the project's dependencies as well as the project itself, so if you
have dependencies that need to be installed and you use ``--exclude-scripts``
(for example), the dependencies' scripts will not be installed either! For
this reason, you may want to use EasyInstall to install the project's
dependencies before using the ``develop`` command,
 if you need finer control
over the installation options for dependencies.

``--uninstall, -u``
  Un-deploy the current project. You may use the ``--install-dir`` or ``-d``
  option to designate the staging area. The created ``.egg-link`` file will

be removed, if present and it is still pointing to the project directory.
The project directory will be removed from ``easy-install.pth`` if the
staging area is Python's ``site-packages`` directory.

Note that this option currently does *not* uninstall script wrappers! You
must uninstall them yourself, or overwrite them by using EasyInstall to
activate a different version of the package. You can also avoid installing
script wrappers in the first place, if you use the ``--exclude-scripts``
(aka ``-x``) option when you run ``develop`` to deploy the project.

``--multi-version, -m``
"Multi-version" mode. Specifying this option prevents ``develop`` from
adding an ``easy-install.pth`` entry for
the project(s) being deployed, and
if an entry for any version of a project already exists, the entry will be
removed upon successful deployment. In multi-version mode, no specific
version of the package is available for importing, unless you use
``pkg_resources.require()`` to put it on ``sys.path``, or you are running
a wrapper script generated by ``setuptools`` or EasyInstall. (In which
case the wrapper script calls ``require()`` for you.)

Note that if you install to a directory other than ``site-packages``,
this option is automatically in effect, because ``.pth`` files can only be
used in ``site-packages`` (at least in Python 2.3 and 2.4). So, if you use
the ``--install-dir`` or ``-d`` option (or they are set via configuration
file(s)) your project and its dependencies will be deployed in multi-
version mode.

``--install-dir=DIR, -d DIR``
Set the installation directory (staging area). If this option is not
directly specified
on the command line or in a distutils configuration
file, the distutils default installation location is used. Normally, this
will be the ``site-packages`` directory, but if you are using distutils
configuration files, setting things like ``prefix`` or ``install_lib``,
then those settings are taken into account when computing the default
staging area.

``--script-dir=DIR, -s DIR``
Set the script installation directory. If you don't supply this option
(via the command line or a configuration file), but you *have* supplied
an ``--install-dir`` (via command line or config file), then this option
defaults to the same directory, so that the scripts will be able to find
their associated package installation. Otherwise, this setting defaults
to the location where the distutils would normally install scripts, taking
any distutils configuration file settings into account.

``--exclude-scripts, -x``

Don't deploy script wrappers. This
is useful if you don't want to disturb
existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they
are already present in another directory on ``sys.path``. By default, if
a requirement can be met using a distribution that is already available in
a directory on ``sys.path``, it will not be copied to the staging area.

``--egg-path=DIR``
Force the generated ``.egg-link`` file to use a specified relative path
to the source directory. This can be useful in circumstances where your
installation directory is being shared by code running under multiple
platforms (e.g. Mac and Windows) which have different absolute locations
for the code under development, but the same *relative* locations with
respect to the installation directory. If you use this option when
installing, you must supply the same relative path when uninstalling.

In addition to the above options,
the ``develop`` command also accepts all of
the same options accepted by ``easy_install``. If you've configured any
``easy_install`` settings in your ``setup.cfg`` (or other distutils config
files), the ``develop`` command will use them as defaults, unless you override
them in a ``[develop]`` section or on the command line.

``easy_install`` - Find and install packages
==========

This command runs the `EasyInstall tool
<easy_install.html>`_ for you. It is exactly
equivalent to running the ``easy_install`` command. All command line arguments
following this command are consumed and not processed further by the distutils,
so this must be the last command listed on the command line. Please see
the EasyInstall documentation for the options reference and usage examples.
Normally, there is no reason to use this command via the command line, as you
can just use ``easy_install`` directly. It's only listed here so that you know
it's a distutils command,
which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your ``setup.cfg`` or other distutils config
files.

.. _egg_info:

``egg_info`` - Create egg metadata and set build tags
==========

This command performs two operations: it updates a project's ``.egg-info``
metadata directory (used by the ``bdist_egg``, ``develop``, and ``test``
commands), and it allows you to temporarily change a project's version string,
to support "daily builds" or "snapshot" releases. It is run automatically by
the ``sdist``, ``bdist_egg``, ``develop``, ``register``, and ``test`` commands
in order to update the project's metadata, but you can also specify it
explicitly in order to temporarily change the project's version string while
executing other commands. (It also generates the``.egg-info/SOURCES.txt``
manifest file, which is used when you are building source
 distributions.)

In addition to writing the core egg metadata defined by ``setuptools`` and
required by ``pkg_resources``, this command can be extended to write other
metadata files as well, by defining entry points in the ``egg_info.writers``
group. See the section on `Adding new EGG-INFO Files`_ below for more details.
Note that using additional metadata writers may require you to include a
``setup_requires`` argument to ``setup()`` in order to ensure that the desired
writers are available on ``sys.path``.

Release Tagging Options

The following options can be used to modify the project's version string for
all remaining commands on the setup command line. The options are processed
in the order shown, so if you use more than one, the requested tags will be
added in the following order:

``--tag-build=NAME, -b NAME``
  Append NAME to the project's version string. Due to the way setuptools
  processes "pre-release" version suffixes beginning with the
 letters "a"
  through "e" (like "alpha", "beta", and "candidate"), you will usually want
  to use a tag like ".build" or ".dev", as this will cause the version number
  to be considered *lower* than the project's default version. (If you
  want to make the version number *higher* than the default version, you can
  always leave off --tag-build and then use one or both of the following
  options.)

  If you have a default build tag set in your ``setup.cfg``, you can suppress
  it on the command line using ``-b ""`` or ``--tag-build=""`` as an argument
  to the ``egg_info`` command.

``--tag-svn-revision, -r``

If the current directory is a Subversion checkout (i.e. has a ``.svn``
subdirectory, this appends a string of the form "-rNNNN" to the project's
version string, where NNNN is the revision number of the most recent
modification to the current directory, as obtained from the ``svn info``
command.

If the current directory is not a Subversion
checkout, the command will
look for a ``PKG-INFO`` file instead, and try to find the revision number
from that, by looking for a "-rNNNN" string at the end of the version
number. (This is so that building a package from a source distribution of
a Subversion snapshot will produce a binary with the correct version
number.)

If there is no ``PKG-INFO`` file, or the version number contained therein
does not end with ``-r`` and a number, then ``-r0`` is used.

``--no-svn-revision, -R``
Don't include the Subversion revision in the version number. This option
is included so you can override a default setting put in ``setup.cfg``.

``--tag-date, -d``
Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the
project's version number.

``--no-date, -D``
Don't include a date stamp in the version number. This option is included
so you can override a default setting in ``setup.cfg``.

(Note: Because these options modify the version
number used for source and
binary distributions of your project, you should first make sure that you know
how the resulting version numbers will be interpreted by automated tools
like EasyInstall. See the section above on `Specifying Your Project's
Version`_ for an explanation of pre- and post-release tags, as well as tips on
how to choose and verify a versioning scheme for your your project.)

For advanced uses, there is one other option that can be set, to change the
location of the project's ``.egg-info`` directory. Commands that need to find
the project's source directory or metadata should get it from this setting:

Other ``egg_info`` Options

``--egg-base=SOURCEDIR, -e SOURCEDIR``
Specify the directory that should contain the .egg-info directory. This

should normally be the root of your project's source tree (which is not
necessarily the same as your project directory; some projects use a ``src``
or ``lib`` subdirectory as the source
root). You should not normally need
to specify this directory, as it is normally determined from the
``package_dir`` argument to the ``setup()`` function, if any. If there is
no ``package_dir`` set, this option defaults to the current directory.

``egg_info`` Examples

Creating a dated "nightly build" snapshot egg::

```
python setup.py egg_info --tag-date --tag-build=DEV bdist_egg
```

Creating and uploading a release with no version tags, even if some default
tags are specified in ``setup.cfg``::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

(Notice that ``egg_info`` must always appear on the command line *before* any
commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run ``easy_install`` or old-style installation
==========

The setuptools ``install`` command is basically a shortcut to run the
``easy_install`` command on the current
project. However, for convenience
in creating "system packages" of setuptools-based projects, you can also
use this option:

``--single-version-externally-managed``
This boolean option tells the ``install`` command to perform an "old style"
installation, with the addition of an ``.egg-info`` directory so that the
installed project will still have its metadata available and operate
normally. If you use this option, you *must* also specify the ``--root``
or ``--record`` options (or both), because otherwise you will have no way
to identify and remove the installed files.

This option is automatically in effect when ``install`` is invoked by another
distutils command, so that commands like ``bdist_wininst`` and ``bdist_rpm``
will create system packages of eggs. It is also automatically in effect if
you specify the ``--root`` option.

``install_egg_info`` - Install an ``.egg-info`` directory in ``site-packages``
==========

Setuptools
 runs this command as part of ``install`` operations that use the
``--single-version-externally-managed`` options. You should not invoke it
directly; it is documented here for completeness and so that distutils
extensions such as system package builders can make use of it. This command
has only one option:

``--install-dir=DIR, -d DIR``
  The parent directory where the ``.egg-info`` directory will be placed.
  Defaults to the same as the ``--install-dir`` option specified for the
  ``install_lib`` command, which is usually the system ``site-packages``
  directory.

This command assumes that the ``egg_info`` command has been given valid options
via the command line or ``setup.cfg``, as it will invoke the ``egg_info``
command and use its options to locate the project's source ``.egg-info``
directory.

.. _rotate:

``rotate`` - Delete outdated distribution files
==========

As you develop new versions
 of your project, your distribution (``dist``)
directory will gradually fill up with older source and/or binary distribution
files. The ``rotate`` command lets you automatically clean these up, keeping
only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``
  Comma-separated list of glob patterns to match. This option is *required*.
  The project name and ``-*`` is prepended to the supplied patterns, in order
  to match only distributions belonging to the current project (in case you
  have a shared distribution directory for multiple projects). Typically,
  you will use a glob pattern like ``.zip`` or ``.egg`` to match files of
  the specified type. Note that each supplied pattern is treated as a
  distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``
  Number of matching distributions to keep. For each group of files
  identified by a pattern specified with the ``--match``

option, delete all
  but the COUNT most-recently-modified files in that group. This option is
  required.

``--dist-dir=DIR, -d DIR``
  Directory where the distributions are. This defaults to the value of the
  ``bdist`` command's ``--dist-dir`` option, which will usually be the
  project's ``dist`` subdirectory.

Example 1: Delete all .tar.gz files from the distribution directory, except
for the 3 most recently modified ones::

  setup.py rotate --match=.tar.gz --keep=3

Example 2: Delete all Python 2.3 or Python 2.4 eggs from the distribution
directory, except the most recently modified one for each Python version::

  setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1

.. _saveopts:

``saveopts`` - Save used options to a configuration file
==

Finding and editing ``distutils`` configuration files can be a pain, especially
since you also have to translate the configuration options from command-line
form
 to the proper configuration file format. You can avoid these hassles by
using the ``saveopts`` command. Just add it to the command line to save the
options you used. For example, this command builds the project using
the ``mingw32`` C compiler, then saves the --compiler setting as the default
for future builds (even those run implicitly by the ``install`` command)::

  setup.py build --compiler=mingw32 saveopts

The ``saveopts`` command saves all options for every command specified on the
command line to the project's local ``setup.cfg`` file, unless you use one of
the `configuration file options`_ to change where the options are saved. For
example, this command does the same as above, but saves the compiler setting
to the site-wide (global) distutils configuration::

  setup.py build --compiler=mingw32 saveopts -g

Note that it doesn't matter where you place the ``saveopts`` command on the
command line; it will still save all the options specified for all commands.
For

example, this is another valid way to spell the last example::

  setup.py saveopts -g build --compiler=mingw32

Note, however, that all of the commands specified are always run, regardless of
where ``saveopts`` is placed on the command line.

Configuration File Options

Normally, settings such as options and aliases are saved to the project's
local ``setup.cfg`` file. But you can override this and save them to the
global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``
  Save settings to the global ``distutils.cfg`` file inside the ``distutils``
  package directory. You must have write access to that directory to use
  this option. You also can't combine this option with ``-u`` or ``-f``.

``--user-config, -u``
  Save settings to the current user's ``~/.pydistutils.cfg`` (POSIX) or
  ``$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option
  with ``-g`` or ``-f``.

``--filename=FILENAME,
-f FILENAME``
  Save settings to the specified configuration file to use. You can't
  combine this option with ``-g`` or ``-u``. Note that if you specify a
  non-standard filename, the ``distutils`` and ``setuptools`` will not
  use the file's contents. This option is mainly included for use in
  testing.

These options are used by other ``setuptools`` commands that modify
configuration files, such as the `alias`_ and `setopt`_ commands.

.. _setopt:

``setopt`` - Set a distutils or setuptools option in a config file
==

This command is mainly for use by scripts, but it can also be used as a quick
and dirty way to change a distutils configuration option without having to
remember what file the options are in and then open an editor.

Example 1. Set the default C compiler to ``mingw32`` (using long option
names)::

```
  setup.py setopt --command=build --option=compiler --set-value=mingw32
```

**Example
 2**. Remove any setting for the distutils default package
installation directory (short option names)::

```
  setup.py setopt -c install -o install_lib -r
```

Options for the ``setopt`` command:

``--command=COMMAND, -c COMMAND``
  Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``
  The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``
  The value to set the option to. Not needed if ``-r`` or ``--remove`` is
  set.

``--remove, -r``
  Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file
options`_ (listed under the `saveopts`_ command, above) to determine which
distutils configuration file the option will be added to (or removed from).

.. _test:

``test`` - Build package and run a unittest suite
===

When doing test-driven development, or running automated builds that need
testing
 before they are deployed for downloading or use, it's often useful
to be able to run a project's unit tests without actually deploying the project
anywhere, even using the ``develop`` command. The ``test`` command runs a
project's unit tests without actually deploying it, by temporarily putting the
project's source on ``sys.path``, after first running ``build_ext -i`` and
``egg_info`` to ensure that any C extensions and project metadata are
up-to-date.

To use this command, your project's tests must be wrapped in a ``unittest``
test suite by either a function, a ``TestCase`` class or method, or a module
or package containing ``TestCase`` classes. If the named suite is a module,

and the module has an ``additional_tests()`` function, it is called and the
result (which must be a ``unittest.TestSuite``) is added to the tests to be
run. If the named suite is a package, any submodules and subpackages are
recursively added to the overall test suite. (Note: if your project specifies
a
 ``test_loader``, the rules for processing the chosen ``test_suite`` may
differ; see the `test_loader`_ documentation for more details.)

Note that many test systems including ``doctest`` support wrapping their
non-``unittest`` tests in ``TestSuite`` objects. So, if you are using a test
package that does not support this, we suggest you encourage its developers to
implement test suite support, as this is a convenient and standard way to
aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the ``unittest``
package's text test runner, but you can get the "quiet" mode (just dots) if
you supply the ``-q`` or ``--quiet`` option, either as a global option to
the setup script (e.g. ``setup.py -q test``) or as an option for the ``test``
command itself (e.g. ``setup.py test -q``). There is one other option
available:

``--test-suite=NAME, -s NAME``
  Specify the test suite (or module, class, or method) to be run
  (e.g.
 ``some_module.test_suite``). The default for this option can be
  set by giving a ``test_suite`` argument to the ``setup()`` function, e.g.::

      setup(
          # ...
          test_suite = "my_package.tests.test_all"
)

  If you did not set a ``test_suite`` in your ``setup()`` call, and do not
  provide a ``--test-suite`` option, an error will occur.

.. _upload:

``upload`` - Upload source and/or egg distributions to PyPI
===

The ``upload`` command is implemented and `documented
<https://docs.python.org/3.1/distutils/uploading.html>`_
in distutils.

Setuptools augments the ``upload`` command with support
for `keyring <https://pypi.python.org/pypi/keyring>`_,
allowing the password to be stored in a secure

location and not in plaintext in the .pypirc file. To use
keyring, first install keyring and set the password for
the relevant repository, e.g.::

  python -m keyring set <repository> <username>
   Password for '<username>' in '<repository>': ********

Then, in .pypirc, set the repository configuration as normal,
but omit the password. Thereafter, uploads will use the
password from the keyring.

New in 20.1: Added keyring support.

.. _upload_docs:

``upload_docs`` - Upload package documentation to PyPI
==

PyPI now supports uploading project documentation to the dedicated URL
https://pythonhosted.org/<project>/.

The ``upload_docs`` command will create the necessary zip file out of a
documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version
must already be registered with PyPI, using the distutils ``register``
command -- just like the ``upload`` command.

Assuming there is an ``Example`` project with documentation in the
subdirectory ``docs``, e.g.::

 Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
| |-- build
| |
 `-- html
| | | |-- index.html
| | | `-- tips_tricks.html
| |-- conf.py
| |-- index.txt
| `-- tips_tricks.txt

You can simply pass the documentation directory path to the ``upload_docs``
command::

```
  python setup.py upload_docs --upload-dir=docs/build/html
```

If no ``--upload-dir`` is given, ``upload_docs`` will attempt to run the
``build_sphinx`` command to generate uploadable documentation.
For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_
must be installed in the same environment as distribute.

As with other ``setuptools``-based commands, you can define useful
defaults in the ``setup.cfg`` of your Python project, e.g.:

.. code-block:: ini

```
  [upload_docs]
  upload-dir = docs/build/html
```

The ``upload_docs`` command has the following options:

``--upload-dir``
  The directory to be uploaded to the repository.

``--show-response``
  Display the full response text from server; this is useful for debugging
  PyPI problems.

``--repository=URL,
-r URL``
  The URL of the repository to upload to. Defaults to
  https://pypi.python.org/pypi (i.e., the main PyPI installation).

Extending and Reusing Setuptools

Creating ``distutils`` Extensions
==========

It can be hard to add new commands or setup arguments to the distutils. But
the ``setuptools`` package makes it a bit easier, by allowing you to distribute
a distutils extension as a separate project, and then have projects that need
the extension just refer to it in their ``setup_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new
commands and ``setup()`` arguments just by defining "entry points". These
are mappings from command or argument names to a specification of where to
import a handler from. (See the section on `Dynamic Discovery of Services and
Plugins`_ above for some more background on entry points.)

Adding Commands

You
 can add new ``setup`` commands by defining entry points in the
``distutils.commands`` group. For example, if you wanted to add a ``foo``
command, you might add something like this to your distutils extension
project's setup script::

```
  setup(
      # ...
      entry_points = {
          "distutils.commands": [
              "foo = mypackage.some_module:foo",
          ],
      },
  )
```

(Assuming, of course, that the ``foo`` class in ``mypackage.some_module`` is
a ``setuptools.Command`` subclass.)

Once a project containing such entry points has been activated on ``sys.path``,
(e.g. by running "install" or "develop" with a site-packages installation
directory) the command(s) will be available to any ``setuptools``-based setup
scripts. It is not necessary to use the ``--command-packages`` option or
to monkeypatch the ``distutils.command`` package to install your commands;
``setuptools`` automatically adds a wrapper to the distutils to search for
entry
 points in the active distributions on ``sys.path``. In fact, this is
how setuptools' own commands are installed: the setuptools project's setup
script defines entry points for them!

Adding ``setup()`` Arguments

Sometimes, your commands may need additional arguments to the ``setup()``
call. You can enable this by defining entry points in the
``distutils.setup_keywords`` group. For example, if you wanted a ``setup()``
argument called ``bar_baz``, you might add something like this to your
distutils extension project's setup script::

```
  setup(
      # ...
      entry_points = {
          "distutils.commands": [
              "foo = mypackage.some_module:foo",
```

```
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called
to validate the ``setup()`` argument, if it's supplied.
 The ``Distribution``
object will have the initial value of the attribute set to ``None``, and the
validation function will only be called if the ``setup()`` call sets it to
a non-None value. Here's an example validation function::

```
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1"""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr,value)
        )
```

Your function should accept three arguments: the ``Distribution`` object,
the attribute name, and the attribute value. It should raise a
``DistutilsSetupError`` (from the ``distutils.errors`` module) if the argument
is invalid. Remember, your function will only be called with non-None values,
and the default value of arguments defined this way is always None. So, your
commands should always be prepared for the possibility that the attribute will
be ``None`` when they access it later.

If more than
 one active distribution defines an entry point for the same
``setup()`` argument, *all* of them will be called. This allows multiple
distutils extensions to define a common argument, as long as they agree on
what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch
the distutils ``Distribution`` class in order to add your arguments; it is
sufficient to define the entry points in your extension, as long as any setup
script using your extension lists your project in its ``setup_requires``
argument.

Adding new EGG-INFO Files

Some extensible applications or frameworks may want to allow third parties to
develop plugins with application or framework-specific metadata included in
the plugins' EGG-INFO directory, for easy access via the ``pkg_resources``

metadata API. The easiest way to allow this is to create a distutils extension
to be used from the plugin projects' setup scripts (via ``setup_requires``)
that
 defines a new setup keyword, and then uses that data to write an EGG-INFO
file when the ``egg_info`` command is run.

The ``egg_info`` command looks for extension points in an ``egg_info.writers``
group, and calls them to write the files. Here's a simple example of a
distutils extension defining a setup argument ``foo_bar``, which is a list of
lines that will be written to ``foo_bar.txt`` in the EGG-INFO directory of any
project that uses the argument::

```
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)
```

This simple example makes use of two utility functions defined by setuptools
for its own use: a routine to validate that a setup keyword is a sequence of
strings, and another one that looks up a setup argument and writes
 it to
a file. Here's what the writer utility looks like::

```
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '\n'.join(value)+'\n'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, ``egg_info.writers`` entry points must be a function taking
three arguments: a ``egg_info`` command instance, the basename of the file to
write (e.g. ``foo_bar.txt``), and the actual full filename that should be
written to.

In general, writer functions should honor the command object's ``dry_run``
setting when writing files, and use the ``distutils.log`` object to do any
console output. The easiest way to conform to this requirement is to use
the ``cmd`` object's ``write_file()``, ``delete_file()``, and
``write_or_delete_file()`` methods exclusively for your file operations. See
those methods' docstrings for more details.

Adding
Support for Revision Control Systems

If the files you want to include in the source distribution are tracked using
Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for ``setuptools`` to find files tracked
by another revision control system, you can do so by adding an entry point to
the ``setuptools.file_finders`` group. The entry point should be a function
accepting a single directory name, and should yield all the filenames within
that directory (and any subdirectories thereof) that are under revision
control.

For example, if you were going to create a plugin for a revision control system
called "foobar", you would write a function something like this:

.. code-block:: python

  def find_files_for_foobar(dirname):
      # loop to yield paths that start with `dirname`

And you would register it in a setup script using something like this::

  entry_points = {
      "setuptools.file_finders": [
          "foobar = my_foobar_module:find_files_for_foobar"
      ]
  }

Then, anyone who wants to use your plugin can simply install it, and their
local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that
simply use the other source control system, or to specify the plugins in
``setup_requires``. When you create a source distribution with the ``sdist``
command, setuptools automatically records what files were found in the
``SOURCES.txt`` file. That way, recipients of source distributions don't need
to have revision control at all. However, if someone is working on a package
by checking out with that system, they will need the same plugin(s) that the
original author is using.

A few important points for

writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the
  passed-in directory name. Absolute paths are NOT allowed, nor are relative
  paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name,
  meaning the current directory. You MUST NOT convert this to a dot; just
  yield relative paths. So, yielding a subdirectory named ``some/dir`` under
  the current directory should NOT be rendered as ``./some/dir`` or
  ``/somewhere/some/dir``, but *always* as simply ``some/dir``

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully
  with the absence of needed programs (i.e., ones belonging to the revision
  control system itself. It *may*, however, use ``distutils.log.warn()`` to
  inform the user of the missing program(s).

Subclassing ``Command``

Sorry, this section isn't written yet, and
 neither is a lot of what's below
this point.

XXX

Reusing ``setuptools`` Code
==========

``ez_setup``

XXX

``setuptools.archive_util``

XXX

``setuptools.sandbox``

XXX

``setuptools.package_index``

XXX

Mailing List and Bug Tracker
==========

Please use the `distutils-sig mailing list`_ for questions and discussion about
setuptools, and the `setuptools bug tracker`_ ONLY for issues you have
confirmed via the list are actual bugs, and which you have reduced to a minimal
set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

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* /opt/cola/permits/1826444911_1697749384.3528833/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/docs/setuptools.txt
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1.547 pcre 8.38

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1.548 libjitterentropy 3.4.1

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jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.553 libtasn 4.17.0

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1.556 python-pip 22.2.2

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file (certdata.txt). This file can be found in the mozilla source tree:
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can be directly used with curl / libcurl / php_curl, or with
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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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Python was created in the early 1990s by Guido van Rossum at Stichting
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In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
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1.557 python-pip 19.2.3

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
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the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2		2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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*
 /opt/cola/permits/1827501493_1697891043.5203595/0/tftp-ha-0-48-tar/src/tftpsubs.c
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* @(#)extern.h 8.1 (Berkeley) 6/6/93
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1.562 python-certifi 2020.12.5

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This packge contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
 $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.563 libcap 2.65

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1.564 pam 1.1.6

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1.565 qemu 6.2.0

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*/

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
```

```
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd,
 "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___getcwd, "__getcwd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl,
 "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept4, "accept4", "%s(%d,%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bindat, "bindat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_enter, "cap_enter", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_get, "cap_fcntls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_limit, "cap_fcntls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_getmode, "cap_getmode", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_get, "cap_ioctls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_limit,
 "cap_ioctls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_rights_limit, "cap_rights_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chflagsat, "chflagsat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connectat, "connectat", "%s(%d,%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_cpuset_getdomain, "cpuset_getdomain", NULL, NULL,
```

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 NULL },
{ TARGET_FREEBSD_NR_cpuset_setdomain, "cpuset_setdomain", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{
 TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fdatasync, "fdatasync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstat, "freebsd11_fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstatfs, "freebsd11_fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstat, "freebsd11_fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatat,
 "freebsd11_fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatfs, "freebsd11_fstatfs", "%s(%d,%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimens, "futimens", "%s(%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getdirentries, "freebsd11_getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getfsstat, "freebsd11_getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid",
 "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getrandom, "getrandom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname,
 "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_kevent, "freebsd11_kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_lstat,
```

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 "freebsd11_lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknodat, "mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknod, "freebsd11_mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknodat, "freebsd11_mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL,
NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl,
 "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd10_pipe, "freebsd10_pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pipe2, "pipe2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_posix_fallocate,
 "posix_fallocate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork,
 "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_max, "sched_get_priority_max", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_min, "sched_get_priority_min", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_freebsd11_stat, "freebsd11_stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_statfs, "freebsd11_statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink",
 "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, print_sysarch, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_create, "timer_create" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_delete, "timer_delete" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_settime, "timer_settime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_gettime, "timer_gettime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_getoverrun, "timer_getoverrun" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)",
 NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimensat, "utimensat", "%s(%d,%s,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait6, "wait6", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_posix_openpt, "posix_openpt", "%s(%d)", NULL,
 NULL },
```

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Key Dates
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* August 3, 2017

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Version 1.0 covers source code files. Version 1.1 is a
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= Code Contributions =

==========

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to
use in the source control commit log.

2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.

3. Your "Contributed-under" message
explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in
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=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
```

* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is
the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
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Contributions.txt: TianoCore Contribution Agreement 1.0

======================
= Code Contributions =
======================

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution
agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0

The "TianoCore Contribution Agreement" is included below in
this document.

4. Submit your code to the TianoCore project using the process
that the project documents on its web page. If the process is
not documented, then submit the code on development email list
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==========
= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or

attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
  made under the terms of the contribtion agreement. This
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==========
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John R. Hauser
2018 January 20

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*/
if not have_bsd_user
  subdir_done()
endif

bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
```

```
 'mmap.c',
 'signal.c',
 'strace.c',
 'syscall.c',
 'uaccess.c',
))

# Pull in the OS-specific build glue, if any
subdir(targetos)
TARGET_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
TARGET_ARCH=x86_64
TARGET_BASE_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-64bit.xml
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(For example, a function in a library to compute square roots has

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   Linus Torvalds
bsd_user_ss.add(files(
 'os-sys.c',
))
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=======

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1.568 gawk 5.1.1

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

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

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

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

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

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

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during execution displays copyright notices, you must include the
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of these things:

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

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

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

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For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
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7. You may place library facilities that are a work based on the

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END OF TERMS AND CONDITIONS

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

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The
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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1.569 sudo 1.9.13p3

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code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete--if
you believe you should be listed, send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander

Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon,
Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.

Jackson, Richard L., Jr.
Janssen, Mark
Jindrk, Jaroslav
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya,
Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig

Orbn, Lszl
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott,
Dougal
Shand, Will
Sieger, Nick
Simon, Thor Lancelot
Skoll, Dianne
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell

Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin

Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Doghonadze, Temuri
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric

Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Florentina Muat
Nurmi, Lauri
Nikoli, Miroslav
Nylander, Daniel
Pan, Yi-Jyun
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Selimaj, Agron
Sendn, Abel
erbnescu, Daniel
Shahedany, Eshagh
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

Yang, Boyuan

The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
Sandwich logo (inspired by xkcd): Stillman, Mark

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1.571 uip 1.0

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* Author: Adam Dunkels <adam@sics.se>
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* $Id: tapdev.c,v 1.8 2006/06/07 08:39:58 adam Exp $
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* Author: Adam Dunkels <adam@sics.se>
*

* $Id: timer.c,v 1.2 2006/06/12 08:00:30 adam Exp $
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* $Id: uiplib.h,v 1.1 2006/06/07 09:15:19 adam Exp $
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* Author: Adam Dunkels <adam@sics.se>
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* $Id: lc-addrlabels.h,v 1.3 2006/06/12 08:00:30 adam Exp $
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* Author: Adam Dunkels <adam@sics.se>
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* $Id: smtp-strings.c,v 1.3 2006/06/11 21:46:37 adam Exp $
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* $Id: telnetd.c,v 1.2 2006/06/07 09:43:54 adam Exp $
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* $Id: httpd.h,v 1.2 2006/06/11 21:46:38 adam Exp $
*
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*
* Author: Adam Dunkels <adam@sics.se>
*
* $Id: httpd-fs.h,v 1.1 2006/06/07 09:13:08 adam Exp $
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*
* Author: Adam Dunkels <adam@sics.se>
*
* $Id: uip-split.c,v 1.2 2006/06/12 08:00:30 adam Exp $
*/

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*
* Author: Adam Dunkels <adam@sics.se>
*
* $Id: uip-fw.h,v 1.2 2006/06/12 08:00:30 adam Exp $
*/
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*
* Author: Adam Dunkels <adam@sics.se>
*
* $Id: smtp-strings.h,v 1.3 2006/06/11 21:46:37 adam Exp $
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* Author: Adam Dunkels <adam@sics.se>

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*
* Author: Adam Dunkels <adam@sics.se>
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* $Id: uip-split.h,v 1.2 2006/06/12 08:00:30 adam Exp $
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* $Id: uip_arp.h,v 1.5 2006/06/11 21:46:39 adam Exp $
*
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* $Id: uip_arp.c,v 1.8 2006/06/02 23:36:21 adam Exp $
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* Author: Adam Dunkels <adam@sics.se>
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* $Id: pt.h,v 1.2 2006/06/12 08:00:30 adam Exp $
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* Author: Adam Dunkels <adam@sics.se>
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* $Id: timer.h,v 1.3 2006/06/11 21:46:39 adam Exp $
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* $Id: memb.c,v 1.1 2006/06/12 08:21:43 adam Exp $
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/**
\defgroup pt Protothreads

Protothreads are a type of lightweight stackless threads designed for
severly memory constrained systems such as deeply embedded systems or
sensor network nodes. Protothreads provides linear code execution for
event-driven systems implemented in C. Protothreads can be used with
or without an RTOS.

Protothreads are a extremely lightweight, stackless type of threads
that provides a blocking context on top of an event-driven system,
without the overhead of per-thread stacks. The purpose of protothreads
is to implement sequential flow of control without complex state
machines or full multi-threading. Protothreads provides conditional
blocking inside C functions.

The advantage of protothreads over a purely event-driven approach is
that protothreads provides a sequential code structure that allows for
blocking functions. In purely event-driven systems, blocking must be
implemented by manually
 breaking the function into two pieces - one
for the piece of code before the blocking call and one for the code
after the blocking call. This makes it hard to use control structures
such as if() conditionals and while() loops.

The advantage of protothreads over ordinary threads is that a
protothread do not require a separate stack. In memory constrained
systems, the overhead of allocating multiple stacks can consume large
amounts of the available memory. In contrast, each protothread only
requires between two and twelve bytes of state, depending on the
architecture.

\note Because protothreads do not save the stack context across a blocking call, local variables are not preserved when the protothread blocks. This means that local variables should be used with utmost care - if in doubt, do not use local variables inside a protothread!

Main features:

- No machine specific code - the protothreads library is pure C

- Does not use error-prone functions such as longjmp()

- Very small RAM overhead - only two bytes per protothread

- Can be used with or without an OS

- Provides blocking wait without full multi-threading or stack-switching

Examples applications:

- Memory constrained systems

- Event-driven protocol stacks

- Deeply embedded systems

- Sensor network nodes

The protothreads API consists of four basic operations: initialization: PT_INIT(), execution: PT_BEGIN(), conditional blocking: PT_WAIT_UNTIL() and exit: PT_END(). On top of these, two convenience functions are built: reversed condition blocking: PT_WAIT_WHILE() and protothread blocking: PT_WAIT_THREAD().

\sa \ref pt "Protothreads API documentation"

The protothreads library is released under a BSD-style license that allows for both non-commercial and commercial usage. The only requirement is that credit is given.

\section authors Authors

The protothreads library was written by Adam Dunkels <adam@sics.se> with

support from Oliver Schmidt <ol.sc@web.de>.

\section pt-desc Protothreads

Protothreads are a extremely lightweight, stackless threads that provides a blocking context on top of an event-driven system, without the overhead of per-thread stacks. The purpose of protothreads is to implement sequential flow of control without using complex state machines or full multi-threading. Protothreads provides conditional blocking inside a C function.

In memory constrained systems, such as deeply embedded systems, traditional multi-threading may have a too large memory overhead. In traditional multi-threading, each thread requires its own stack, that typically is over-provisioned. The stacks may use large parts of the available memory.

The main advantage of protothreads over ordinary threads is that protothreads are very lightweight: a protothread does not require its own stack. Rather, all protothreads run on the same stack and context switching is done by stack rewinding. This is advantageous
in memory
constrained systems, where a stack for a thread might use a large part of the available memory. A protothread only requires only two bytes of memory per protothread. Moreover, protothreads are implemented in pure C and do not require any machine-specific assembler code.

A protothread runs within a single C function and cannot span over other functions. A protothread may call normal C functions, but cannot block inside a called function. Blocking inside nested function calls is instead made by spawning a separate protothread for each potentially blocking function. The advantage of this approach is that blocking is explicit: the programmer knows exactly which functions that block that which functions the never blocks.

Protothreads are similar to asymmetric co-routines. The main difference is that co-routines uses a separate stack for each co-routine, whereas protothreads are stackless. The most similar mechanism to protothreads are Python generators. These are also
stackless
constructs, but have a different purpose. Protothreads provides blocking contexts inside a C function, whereas Python generators provide multiple exit points from a generator function.

\section pt-autovars Local variables

\note
Because protothreads do not save the stack context across a blocking

call, local variables are not preserved when the protothread
blocks. This means that local variables should be used with utmost
care - if in doubt, do not use local variables inside a protothread!

\section pt-scheduling Scheduling

A protothread is driven by repeated calls to the function in which the
protothread is running. Each time the function is called, the
protothread will run until it blocks or exits. Thus the scheduling of
protothreads is done by the application that uses protothreads.

\section pt-impl Implementation

Protothreads are implemented using \ref lc "local continuations". A
local continuation represents the current state of execution at a
particular place in the program,
 but does not provide any call history
or local variables. A local continuation can be set in a specific
function to capture the state of the function. After a local
continuation has been set can be resumed in order to restore the state
of the function at the point where the local continuation was set.

Local continuations can be implemented in a variety of ways:

 -# by using machine specific assembler code,
 -# by using standard C constructs, or
 -# by using compiler extensions.

The first way works by saving and restoring the processor state,
except for stack pointers, and requires between 16 and 32 bytes of
memory per protothread. The exact amount of memory required depends on
the architecture.

The standard C implementation requires only two bytes of state per
protothread and utilizes the C switch() statement in a non-obvious way
that is similar to Duff's device. This implementation does, however,
impose a slight restriction to the code that uses protothreads in that
the
 code cannot use switch() statements itself.

Certain compilers has C extensions that can be used to implement
protothreads. GCC supports label pointers that can be used for this
purpose. With this implementation, protothreads require 4 bytes of RAM
per protothread.

@{

*/

/** @} */

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* Author: Adam Dunkels <adam@sics.se>
*
* $Id: httpd.c,v 1.2 2006/06/11 21:46:38 adam Exp $
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* $Id: memb.h,v 1.1 2006/06/12 08:21:43 adam Exp $
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* $Id: lc-switch.h,v 1.2 2006/06/12 08:00:30 adam Exp $
*/

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1.577 shim 0.3

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1.585 zlib 1.2.1.2

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

****** SHA1 Library (sha1/sha1.hpp) ******
sha1.hpp is a repackaging of the sha1.cpp and sha1.h files from the shallsha1
library (http://code.google.com/p/smallsha1/) into a single header suitable for
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md5.hpp is a reformulation of the md5.h and md5.c code from
http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c to allow it to
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L. Peter Deutsch
ghost@aladdin.com

****** UTF8 Validation logic (utf8_validation.hpp) ******
utf8_validation.hpp is adapted from code originally written by Bjoern Hoehrmann
<bjoern@hoehrmann.de>. See http://bjoern.hoehrmann.de/utf-8/decoder/dfa/ for
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1.591 libvirt 8.1.0

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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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1.593 sudo 1.9.12p1

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The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

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1.594 bind 9.18.7

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1.597 expat 2.6.2

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1.598 libcgroup 2.0.2

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1.600 cpp 11.4.0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language
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Version 3, 29 June 2007

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1.601 dtc 1.6.1

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1.603 openssh 9.6

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1.608 libusb-compat 0.14-3.el7

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1.612 python-setuptools 59.5.0

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1.613 pycparser 2.21

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1.614 ncurses 6.3+20220423

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-- $Id: COPYING,v 1.11 2022/01/01 11:47:50 tom Exp $
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1.615 python3-pyopenssl 22.0.0

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1.616 python3-ndg-httpsclient 0.5.1

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1.617 python3-ptyprocess 0.7.0

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1.618 python3-pycparser 2.21

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pycparser -- A C parser in Python

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1.619 python3-pysocks 1.7.1

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1.620 python3-pexpect 4.8.0

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1.621 python-ply 3.11

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1.622 libcgroup 0.4.1

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of these things:

a) Accompany the
work with the complete corresponding
machine-readable source code for the Library including whatever
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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will operate properly
with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

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

That's all there is to it!

1.623 multipart-parser-c NA

1.623.1 Available under license :

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/* Based on node-formidable by Felix Geisendörfer
* Igor Afonov - afonov@gmail.com - 2012
* MIT License - http://www.opensource.org/licenses/mit-license.php
*/

Found in path(s):
* /opt/cola/permits/2042810738_1717658686.063576/0/multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.h
* /opt/cola/permits/2042810738_1717658686.063576/0/multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.c

1.624 aplib 1.0

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Found in path(s):
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/kw_unpack.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/interface.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/ip.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/__init__.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/graph.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/translation.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/__init__.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/dict_utils.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/rebuild.py

* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/edge.py
*
/opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/exceptions.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/range.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/exceptions.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/vertex.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/process.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/typed.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/enum.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/rfc_2822_parse.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/msgid_utils.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/rfc_2821_parse.py
*
/opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/tb.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/mask.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/test/test_oriented_graph.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0
Name: aplib
Version: 1.0.0-000
Summary: UNKNOWN
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/EGG-INFO/PKG-INFO

1.625 common-base3 1.0

1.625.1 Available under license :

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/opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/common.pyo: binary file matches
/opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/multi_connect_base.pyo: binary file matches

Found in path(s):
* /bin/grep
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Found in path(s):
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/provisioner_service.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/diagnostic_archive_util.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/enum.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/upgrade_base/__init__.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/product.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/tests/test.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/nameservice.py
*
/opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/ftp.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/__init__.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/tftp.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/base_message_server.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/mq_coroutine_server.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/base_conf.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/multi_connect_client.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/log.py
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* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/socket_util.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/mq_client.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/upgrade_base/upgrade_server.py

* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/provisioner_events.py
*
/opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/mq_coroutine_client.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/name_svc_util.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/base_transfer_proto.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/base.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/mq_server.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/upgrade_base/upgrade_client.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/multi_connect_coroutine_client.py
*
/opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/tests/tests_asa_provisioner_service_provider.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/product.py.orig
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* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/http.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/tests/__init__.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/name_server.py
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* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/__init__.py
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* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/base_message_client.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/db_version_util.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/client.py

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Metadata-Version: 1.0
Name: common-base
Version: 1.0
Summary: common-base
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/EGG-INFO/PKG-INFO

1.626 shrapnel 1.0

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Metadata-Version: 1.0
Name: shrapnel
Version: 1.0.0-000
Summary: UNKNOWN
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/EGG-INFO/PKG-INFO
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Found in path(s):
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/process.py
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/emulation/socket.py
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/optional.py
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/emulation/threading.py
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/emulation/__init__.py
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/emulation/thread.py

1.627 python-ptyprocess 0.6.0

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1.628 expect 5.45.4

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Written by: Don Libes, libes at nist.gov, NIST

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1.629 heimdall 1.0

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1.631 msmtp 1.8.20

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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as a System Library, need not be
included in conveying the object code work.

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keys, or other information required to install
and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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1.632 tomcat-connectors 1.2.40

1.632.1 Available under license :

PGM
CRTCMOD MODULE(MOD_JK/MOD_JK) +
  SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +

```
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
     'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('mod_jk.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp_common.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5'
 '_REENTRANT') +
  TEXT('jk_ajp12_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
```

```
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +

 INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
  SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +

 DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT' 'USE_SO_RCVTIMEO' +
       'USE_SO_SNDTIMEO' ) +
  TEXT('jk_connect.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
```

```
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
  SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_context.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
  SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_lb_worker.c') +

  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
  SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MD5) +
  SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_md5.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
```

```
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF)
 +
  SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_msg_buff.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
  SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_pool.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SOCKBUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_sockbuf.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
  SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_uri_worker_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
```

```
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
  SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_url.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common'
 '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
  SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_util.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_WORKER) +
  SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
  SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520'
 +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_status.c') +
  OPTIMIZE(40) +
```

```
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
  SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_shm.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
    MODULE(MOD_JK/MOD_JK +
         MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
         MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
         MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
         MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
         MOD_JK/JK_LB_WORK +
         MOD_JK/JK_MAP MOD_JK/JK_MD5
 +
         MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
         MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
         MOD_JK/JK_URL +
         MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
         MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
    EXPORT(*SRCFILE) +
    BNDDIR() +
    TGTRLS(*CURRENT) +
    SRCFILE(MOD_JK/QSRVSRC) +
    SRCMBR(MOD_JK) +
    USRPRF(*USER) +
    BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
          QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
    TEXT('Apache Tomcat mod_jk connector module')

ENDPGM
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!IFDEF APACHE20_HOME
APR_LIB=libapr.lib
APU_LIB=libaprutil.lib
OUTDIR=.\Release20
INTDIR=.\Release20
APACHE2_HOME=$(APACHE20_HOME)
!ELSE
!IFDEF APACHE24_HOME
APACHE2_HOME=$(APACHE24_HOME)
OUTDIR=.\Release24
INTDIR=.\Release24
!ELSE
!IFDEF
 APACHE22_HOME
APACHE2_HOME=$(APACHE22_HOME)
OUTDIR=.\Release22
INTDIR=.\Release22
!ENDIF
!ENDIF
APR_LIB=libapr-1.lib
APU_LIB=libaprutil-1.lib
!ENDIF
!IFNDEF APACHE2_HOME
!ERROR Missing APACHE2_HOME environment variable.
!ENDIF

TARGET=mod_jk$(SO_VERSION)$(SO_HTTPD_VERSION)
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe
ARCH=X86

ALL : "$(OUTDIR)\$(TARGET).so"


CLEAN :
 -@erase "$(INTDIR)\jk.res"
 -@erase "$(INTDIR)\jk_ajp12_worker.obj"
```

```
 -@erase "$(INTDIR)\jk_ajp13.obj"
 -@erase "$(INTDIR)\jk_ajp13_worker.obj"
 -@erase "$(INTDIR)\jk_ajp14.obj"
 -@erase "$(INTDIR)\jk_ajp14_worker.obj"
 -@erase "$(INTDIR)\jk_ajp_common.obj"
 -@erase "$(INTDIR)\jk_connect.obj"
 -@erase "$(INTDIR)\jk_context.obj"
 -@erase "$(INTDIR)\jk_lb_worker.obj"
 -@erase "$(INTDIR)\jk_map.obj"
 -@erase "$(INTDIR)\jk_md5.obj"
 -@erase "$(INTDIR)\jk_msg_buff.obj"
 -@erase "$(INTDIR)\jk_pool.obj"
 -@erase "$(INTDIR)\jk_shm.obj"
 -@erase "$(INTDIR)\jk_sockbuf.obj"
 -@erase "$(INTDIR)\jk_status.obj"
 -@erase "$(INTDIR)\jk_uri_worker_map.obj"
 -@erase
 "$(INTDIR)\jk_url.obj"
 -@erase "$(INTDIR)\jk_util.obj"
 -@erase "$(INTDIR)\jk_worker.obj"
 -@erase "$(INTDIR)\mod_jk.obj"
 -@erase "$(INTDIR)\mod_jk_src.idb"
 -@erase "$(INTDIR)\mod_jk_src.pdb"
 -@erase "$(OUTDIR)\mod_jk.exp"
 -@erase "$(OUTDIR)\mod_jk.lib"
 -@erase "$(OUTDIR)\$(TARGET).pdb"
 -@erase "$(OUTDIR)\$(TARGET).so"

"$(OUTDIR)" :
   if not exist "$(OUTDIR)/$(NULL)" mkdir "$(OUTDIR)"

BSC32=bscmake.exe
BSC32_FLAGS=/nologo /o"$(OUTDIR)\$(TARGET).bsc"
BSC32_SBRS= \

LINK32=link.exe
LINK32_FLAGS=libhttpd.lib $(APR_LIB) $(APU_LIB) kernel32.lib user32.lib advapi32.lib mswsock.lib
ws2_32.lib $(EXTRA_LIBS) /nologo /base:"0x6A6B0000" /subsystem:windows /dll /incremental:no
/pdb:"$(OUTDIR)\$(TARGET).pdb" /debug /machine:$(ARCH) /out:"$(OUTDIR)\$(TARGET).so"
/implib:"$(OUTDIR)\mod_jk.lib" /libpath:"$(APACHE2_HOME)\lib" /opt:ref
LINK32_OBJS= \
 "$(INTDIR)\jk_ajp12_worker.obj" \
 "$(INTDIR)\jk_ajp13.obj" \
 "$(INTDIR)\jk_ajp13_worker.obj" \
 "$(INTDIR)\jk_ajp14.obj"
 \
 "$(INTDIR)\jk_ajp14_worker.obj" \
 "$(INTDIR)\jk_ajp_common.obj" \
```

```
 "$(INTDIR)\jk_connect.obj" \
 "$(INTDIR)\jk_context.obj" \
 "$(INTDIR)\jk_lb_worker.obj" \
 "$(INTDIR)\jk_map.obj" \
 "$(INTDIR)\jk_md5.obj" \
 "$(INTDIR)\jk_msg_buff.obj" \
 "$(INTDIR)\jk_pool.obj" \
 "$(INTDIR)\jk_shm.obj" \
 "$(INTDIR)\jk_sockbuf.obj" \
 "$(INTDIR)\jk_status.obj" \
 "$(INTDIR)\jk_uri_worker_map.obj" \
 "$(INTDIR)\jk_url.obj" \
 "$(INTDIR)\jk_util.obj" \
 "$(INTDIR)\jk_worker.obj" \
 "$(INTDIR)\jk.res" \
 "$(INTDIR)\mod_jk.obj"

"$(OUTDIR)\$(TARGET).so" : "$(OUTDIR)" $(DEF_FILE) $(LINK32_OBJS)
   $(LINK32) @<<
 $(LINK32_FLAGS) $(LINK32_OBJS)
<<
 @IF EXIST $(OUTDIR)\$(TARGET).manifest \
  mt -nologo -manifest $(OUTDIR)\$(TARGET).manifest -outputresource:$(OUTDIR)\$(TARGET).so;2


CPP_PROJ=-nologo -MD -W3 -O2 -Ob2 -Oy- -Zi -EHsc /I "..\common" /I "$(APACHE2_HOME)\include" /D
"NDEBUG" /D "WIN32" /D "_WINDOWS" $(CFLAGS) /Fo"$(INTDIR)\\" /Fd"$(INTDIR)\mod_jk_src" /FD /c

.c{$(INTDIR)}.obj::
   $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.c{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<
```

```
.cpp{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

MTL_PROJ=/nologo /D "NDEBUG" /mktyplib203 /win32
RSC_PROJ=/l 0x409 /fo"$(INTDIR)\jk.res" /i "..\common" /d BASENAME="mod_jk" /d "NDEBUG"

SOURCE=..\common\jk.rc

"$(INTDIR)\jk.res" : $(SOURCE) "$(INTDIR)"
  $(RSC) $(RSC_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp12_worker.c

"$(INTDIR)\jk_ajp12_worker.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp13.c

"$(INTDIR)\jk_ajp13.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp13_worker.c

"$(INTDIR)\jk_ajp13_worker.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp14.c

"$(INTDIR)\jk_ajp14.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP)
  $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp14_worker.c

"$(INTDIR)\jk_ajp14_worker.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP) $(CPP_PROJ) $(SOURCE)
```

```
SOURCE=..\common\jk_ajp_common.c

"$(INTDIR)\jk_ajp_common.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_connect.c

"$(INTDIR)\jk_connect.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_context.c

"$(INTDIR)\jk_context.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_lb_worker.c

"$(INTDIR)\jk_lb_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_map.c

"$(INTDIR)\jk_map.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_md5.c

"$(INTDIR)\jk_md5.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_msg_buff.c

"$(INTDIR)\jk_msg_buff.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_pool.c

"$(INTDIR)\jk_pool.obj"
```

```
 : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_shm.c

"$(INTDIR)\jk_shm.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_sockbuf.c

"$(INTDIR)\jk_sockbuf.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_status.c

"$(INTDIR)\jk_status.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_uri_worker_map.c

"$(INTDIR)\jk_uri_worker_map.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_url.c

"$(INTDIR)\jk_url.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_util.c

"$(INTDIR)\jk_util.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_worker.c

"$(INTDIR)\jk_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=.\mod_jk.c
```

"$(INTDIR)\mod_jk.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)
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Written by: Philip Hazel <ph10@cam.ac.uk>

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```
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```

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#

```
#
# NetWare Makefile for mod_jk (uses build system of Apache 2.x - gnu make)
# created by Guenter Knauf <fuankg@apache.org>
#

#
# Declare the sub-directories to be built here
#

SUBDIRS = \
 $(EOLIST)

#
# Get the
 'head' of the build environment.  This includes default targets and
# paths to tools
#

include $(AP_WORK)/build/NWGNUhead.inc

#
# build this level's files

#
# Make sure all needed macro's are defined
#

JKCOMMON = ../common

#
# These directories will be at the beginning of the include list, followed by
# INCDIRS
#
XINCDIRS += \
   $(JKCOMMON) \
   $(APR)/include \
   $(APRUTIL)/include \
   $(AP_WORK)/include \
   $(NWOS) \
   $(EOLIST)

#
# These flags will come after CFLAGS
#
XCFLAGS  += \
   $(EOLIST)

#
```

```
# These defines will come after DEFINES
#
XDEFINES += \
  -D__NOVELL_LIBC__ \
  -D_POSIX_SOURCE \
  $(EOLIST)

#
# These flags will be added to the link.opt file
#
XLFLAGS  += \
  $(EOLIST)

#
# These values will be appended to the correct variables based on the value of
# RELEASE
#
ifeq "$(RELEASE)" "debug"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

ifeq "$(RELEASE)" "noopt"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  +=
\
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

ifeq "$(RELEASE)" "release"
XINCDIRS += \
```

```
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

#
# These are used by the link target if an NLM is being generated
# This is used by the link 'name' directive to name the nlm.  If left blank
# TARGET_nlm (see below) will be used.
#
NLM_NAME = mod_jk

#
# This is used by the link '-desc ' directive.
# If left blank, NLM_NAME will be used.
#
NLM_DESCRIPTION = Apache $(VERSION_STR) plugin for Tomcat $(JK_VERSION_STR)

#
# This is used by the link '-copy ' directive.
# If left blank, the ASF copyright defined in NWGNUtail.inc will be used.
#
NLM_COPYRIGHT =

#
# This is used by the '-threadname' directive.  If left blank,
# NLM_NAME Thread will be used.
#
NLM_THREAD_NAME = JK Module

#
# If this is specified, it will override VERSION value in
# $(AP_WORK)\build\NWGNUenvironment.inc
#
NLM_VERSION = $(JK_VERSION)

#
#
 If this is specified, it will override the default of 64K
#
NLM_STACK_SIZE = 49152
```

```
#
# If this is specified it will be used by the link '-entry' directive
#
NLM_ENTRY_SYM = _LibCPrelude

#
# If this is specified it will be used by the link '-exit' directive
#
NLM_EXIT_SYM = _LibCPostlude

#
# If this is specified it will be used by the link '-check' directive
#
NLM_CHECK_SYM =

#
# If these are specified it will be used by the link '-flags' directive
#
NLM_FLAGS = AUTOUNLOAD, PSEUDOPREEMPTION

#
# If this is specified it will be linked in with the XDCData option in the def
# file instead of the default of $(NWOS)/apache.xdc.  XDCData can be disabled
# by setting APACHE_UNIPROC in the environment
#
XDCDATA  =

#
# If there is an NLM target, put it here
#
TARGET_nlm = \
 $(OBJDIR)/$(NLM_NAME).nlm \
 $(EOLIST)

#
# If there is an LIB target, put it here
#
TARGET_lib = \
 $(EOLIST)

#
# These are the OBJ files needed to create the NLM target above.
# Paths must all use the
 '/' character
#
FILES_nlm_objs = \
```

```
 $(OBJDIR)/jk_nwmain.o \
 $(OBJDIR)/jk_ajp12_worker.o \
 $(OBJDIR)/jk_ajp13.o \
 $(OBJDIR)/jk_ajp13_worker.o \
 $(OBJDIR)/jk_ajp14.o \
 $(OBJDIR)/jk_ajp14_worker.o \
 $(OBJDIR)/jk_ajp_common.o \
 $(OBJDIR)/jk_connect.o \
 $(OBJDIR)/jk_context.o \
 $(OBJDIR)/jk_lb_worker.o \
 $(OBJDIR)/jk_map.o \
 $(OBJDIR)/jk_md5.o \
 $(OBJDIR)/jk_msg_buff.o \
 $(OBJDIR)/jk_pool.o \
 $(OBJDIR)/jk_shm.o \
 $(OBJDIR)/jk_sockbuf.o \
 $(OBJDIR)/jk_status.o \
 $(OBJDIR)/jk_uri_worker_map.o \
 $(OBJDIR)/jk_url.o \
 $(OBJDIR)/jk_util.o \
 $(OBJDIR)/jk_worker.o \
 $(OBJDIR)/mod_jk.o \
 $(EOLIST)

#
# These are the LIB files needed to create the NLM target above.
# These will be added as a library command in the link.opt file.
#
FILES_nlm_libs = \
 $(NOVELLLIBC)/imports/libcpre.o \
 $(EOLIST)

#
# These are the modules that the above NLM target depends on to load.
# These will be added as a module command in the link.opt file.
#
FILES_nlm_modules = \
 aprlib \
 libc \
 $(EOLIST)

#
#
 If the nlm has a msg file, put it's path here
#
FILE_nlm_msg =

#
```

```
# If the nlm has a hlp file put it's path here
#
FILE_nlm_hlp =

#
# If this is specified, it will override $(NWOS)\copyright.txt.
#
FILE_nlm_copyright =

#
# Any additional imports go here
#
FILES_nlm_Ximports = \
 @aprlib.imp \
 @httpd.imp \
 @libc.imp \
 @ws2nlm.imp \
 $(EOLIST)

#
# Any symbols exported to here
#
FILES_nlm_exports = \
 jk_module \
 $(EOLIST)

#
# These are the OBJ files needed to create the LIB target above.
# Paths must all use the '/' character
#
FILES_lib_objs = \
 $(EOLIST)

#
# implement targets and dependancies (leave this section alone)
#

libs :: $(OBJDIR) $(TARGET_lib)

nlms :: libs $(TARGET_nlm)

#
# Updated this target to create necessary directories and copy files to the
# correct place.  (See $(AP_WORK)\build\NWGNUhead.inc for examples)
#
install :: nlms FORCE
 copy $(OBJDIR)\*.nlm $(INSTALL)\Apache2\modules\*.*
```

```
#
# Any specialized rules here
#

vpath %.c $(JKCOMMON)

$(OBJDIR)/version.inc:
 $(JKCOMMON)/jk_version.h $(OBJDIR)
 @echo Creating $@
 @awk -f ../../support/get_ver.awk $< > $@



#
# Include the version info retrieved from jk_version.h
#

-include $(OBJDIR)/version.inc

#
# Include the 'tail' makefile that has targets that depend on variables defined
# in this makefile
#

include $(AP_WORK)/build/NWGNUtail.inc
```

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```
PGM
CRTCMOD MODULE(MOD_JK/MOD_JK) +
  SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('mod_jk.c') +
  OPTIMIZE(40) +
```

```
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp_common.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c')
 +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp12_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
```

```
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5'
'_REENTRANT') +
  TEXT('jk_ajp13_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF)
 +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
  SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT' +
       'USE_SO_RCVTIMEO' + 'USE_SO_SNDTIMEO' ) +
  TEXT('jk_connect.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
```

```
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
  SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_context.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED)
 +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
  SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_lb_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
  SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD
```

```
 MODULE(MOD_JK/JK_MD5) +
   SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
   DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_md5.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALEUTF) +
   SYSIFCOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
   TERASPACE(*YES) +
   TGTRLS(*CURRENT) +
   INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF) +
   SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
   DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_msg_buff.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALEUTF) +
   SYSIFCOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
   TERASPACE(*YES) +
   TGTRLS(*CURRENT) +
   INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
   SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
    DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_pool.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALEUTF) +
   SYSIFCOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
   TERASPACE(*YES) +
   TGTRLS(*CURRENT) +
   INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SOCKBUF) +
   SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
   DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_sockbuf.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALEUTF) +
   SYSIFCOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
```

```
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
  SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT')
 +
  TEXT('jk_uri_worker_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
  SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_url.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
  SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_util.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +

  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_WORKER) +
  SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
```

```
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
  SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_status.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common'
 '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
  SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_shm.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
    MODULE(MOD_JK/MOD_JK +
          MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
          MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
          MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
          MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
          MOD_JK/JK_LB_WORK +
          MOD_JK/JK_MAP MOD_JK/JK_MD5 +
          MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
          MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
          MOD_JK/JK_URL +
```

```
        MOD_JK/JK_UTIL MOD_JK/JK_WORKER +

    MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
     EXPORT(*SRCFILE) +
     BNDDIR() +
     TGTRLS(*CURRENT) +
     SRCFILE(MOD_JK/QSRVSRC) +
     SRCMBR(MOD_JK) +
     USRPRF(*USER) +
     BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
          QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
     TEXT('Apache Tomcat mod_jk connector module')

ENDPGM
```

1.633 libtomcrypt 1.17

1.633.1 Available under license :

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Tom St Denis

1.634 libtommath 0.42.0

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1.635 perf 1.0

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1.636 fbset-modes 0.1.0

1.636.1 Available under license :

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```
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*  Linux Frame Buffer Device Configuration
*
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*        (Geert.Uytterhoeven@cs.kuleuven.ac.be)
*
*  ---------------------------------------------------------------------------
*
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*  distribution for more details.
*
*  Petr Vandrovec <vandrove@vc.cvut.cz>:
*          -grayscale, -rgba, -nonstd, VGA modes reporting
*
*  Brad Midgley <brad@exodus.pht.com>:
*          -match
*
*/
```

Found in path(s):
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/fbset.c
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*
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*   (Geert.Uytterhoeven@cs.kuleuven.ac.be)
*
*  ---------------------------------------------------------------------------
*
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*/

Found in path(s):
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/fbset.h
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* Linux Frame Buffer Device Configuration
*
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*   (Geert.Uytterhoeven@cs.kuleuven.ac.be)
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*/

Found in path(s):
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/modes.y
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/modes.l
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/modeline2fb

1.637 gdbm 1.11

1.637.1 Available under license :

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 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.648 icu 70.1

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---
layout: default
title: Legalities
parent: Release & Milestone Tasks
grand_parent: Contributors
nav_order: 70

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```
org/icu/commit/0001f6c5e92f6f3a8d66c7dbc47cc24df7633a71)
for
 an example; there should be only two files to update.
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
```

```
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
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57.1

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1.649 kerberos 1.17.2

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lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x

lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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kprop/kpropd_rpc.c
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1.650 gpt-fdisk 1.0.8

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* /opt/cola/permits/2162651583_1724840229.8275998/0/wsgiref-0-1-2-zip/wsgiref-0.1.2/PKG-INFO
* /opt/cola/permits/2162651583_1724840229.8275998/0/wsgiref-0-1-2-zip/wsgiref-0.1.2/wsgiref.egg-info/PKG-INFO
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1.655 futures 3.3.0

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1.657 init-ifupdown 1.0

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1.658 tipc-utils 2.2.0+gitAUTOINC+7ab2211b87

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```
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* server_tipc.c
*
* Short description: TIPC stream demo (server side)
*
* ----------------------------------------------------------------------
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*
* ----------------------------------------------------------------------
*/
```

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```
/* ----------------------------------------------------------------------
*
```

* client_tipc.c
*
* Short description: TIPC hello world demo (client side)
* --
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*
* --
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*
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/* --
*
* server_tipc.c
*
* Short description: TIPC benchmark demo (server side)
*

```
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* ----------------------------------------------------------------------
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```
/* ----------------------------------------------------------------------
*
* tipc_ts_adapt.h
*
* Short description: Portable TIPC Test Suite -- wrapper declarations for Linux
*
* ----------------------------------------------------------------------
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*
* server_tipc.c
*
* Short description: TIPC stream demo (server side)
*
* --
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*
* tipc_ts_common.c
*
* Short description: Portable TIPC Test Suite -- common client+server routines
*
* --
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/* --
*
* client_tipc.c
*
* Short description: TIPC multicast demo (client side)
*
* --
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*
* client_tipc.c
*
* Short description: TIPC subscription demo (client side)
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*
* tipc_ts_server_linux.c
*
* Short description: Portable TIPC Test Suite -- server wrapper for Linux
*
* --
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*
* client_tipc.c
*
* Short description: TIPC benchmark demo (client side)
*
* --
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/* --
*
* tipcc.h
*
* Short description: TIPC C binding API. The complete TIPC socket API with all
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*
* --
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```
*
* Version 0.9.5: Jon Maloy, 2016
*
* ----------------------------------------------------------------------
 */
```

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* tipc_ts_server.c
*
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*
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```
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* include/uapi/linux/tipc.h: Header for TIPC socket interface
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* /opt/cola/permits/2175989091_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/tipclog/tipc.h
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/* --

Name: inventory_sim.c

Short description: TIPC distributed inventory simulation (Linux version)

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DESCRIPTION
This file is a demo program that illustrates how TIPC can be used to support
distributed applications. It takes advantage of TIPC's socket-based
messaging, as well as its port naming and port name subscription capabilities.

The demo is a simulation
of a store that stocks a variety of numbered items
which are sold to customers upon request. By default, items and customers
are created randomly (although there are limits on the number of each that
can be present in the store at any given time). From time to time new items
are delivered to the store; independently of this, customers enter the store,
each looking for a specific item. If a desired item can be obtained before a
customer gets tired of waiting for it, a sale is recorded; otherwise, a walk-out
is recorded. If multiple customers attempt to obtain the same item, only one

succeeds; the others are notified of their failure and try again.

Each item and customer is implemented as a separate task. An item makes itself available by creating a socket whose port name identifies the item number. A customer determines the availability of an item by creating a subscription for the item name and waiting for notification that the item exists; the customer then obtains the item
by sending a message to the socket for the item
and receiving a successful reply. A logging task is used to record all significant events encountered by the item and customer tasks during the simulation, as well as to display the simulation status and statistics on a periodic basis.

This simulation is most effective when it is run on multiple CPUs at the same time, which has the effect of creating a network of stores sharing a global inventory. Since the port name published by an item is visible throughout the TIPC cluster, customers are able to obtain items from other CPUs if they are not available locally. The more CPUs involved in the simulation, the more items are available and the less likely a customer will be to walk out of a store because the item they desire is unavailable.

When a simulation is terminated the logging task waits for all customers to leave, then creates a janitor task to dispose of the unsold items that remain. TIPC's name subscription capability allows
the janitor to distinguish the items
belonging to its own store from those in other stores.

The simulation can be temporarily halted to permit inspection of the various tasks used, or to assist in debugging problems. This is achieved by publishing the name of a virtual item (item 0), which instructs the logging task on each CPU to temporarily suspend processing; this causes all customer and item tasks on the CPU to become blocked when they next attempt to log an event. (Note: Pausing the simulation may result in warning messages from customers about non-responsive items; this is normal behavior resulting from the way the pause capability is implemented, and is no cause for concern.)

The demo gives the user control over the number of item and customer tasks used in the simulation, as well as the ability to increase the speed of processing and to control the amount of output generated. By default, a simulation running at normal speed displays all transaction info, while a simulation
running at an accelerated rate displays only the periodic summary.
The simulation can also be run in a deterministic manner by creating a store having no items or customers, and then generating individual item and customer tasks manually.

Building the demo

The demo is built as a normal TIPC application. The accompanying Makefile
builds a "inventory_sim" executable and creates softlinks to a set of aliases
(eg. newSim, killSim, ...) that are used to invoke the main executable to do
specific operations.

Running the demo

The simulation is run by issuing the following shell commands:

newSim [#items [#customers [speed [verbosity]]]]
- open store
killSim - close store and clean up
stopSim - pause simulation of all stores
startSim - unpause simulation of all stores
newItem [item [count]] - create item (repeat as specified)
newCust [item [count]] - create customer for item (repeat as specified)
helpSim
- display this menu

A missing (or 0) argument value causes the simulation to choose an appropriate
default. In certain cases, an argument value that is < 0 can also be used
to disable a specific feature of a command.

The output messages generated by the simulation should be self-explanatory.

Examples
---
1) Run default simulation: ./newSim

2) Run simulation at 10x normal speed: ./newSim 0 0 10

3) Run simulation manually: ./newSim -1 -1   [create empty store]
./newItem 3   [create item]
./newCust 3   [create customer]
*/

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* /opt/cola/permits/2175989091_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/inventory_sim/inventory_sim.c
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/* ---
*
* tipc_c_api_client.c
*
* Short description:
* ---
*

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/* --
*
* common_tipc.h
*
* Short description: TIPC benchmark demo (common definitions and functions)
*
* --
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/* --
*
* tipcc.c
*
* Short description: TIPC C binding API
*
* --
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*
* Version 0.9: Jon Maloy, 2015
*
* --
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*
 /opt/cola/permits/2175989091_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/multicast_blast/tipcc.c
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/* --
*
* server_tipc.c
*
* Short description: TIPC multicast demo (server side)
*
* --
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/* --
*
* tipc_ts.h
*
* Short description: Portable TIPC Test Suite -- common declarations
*
* --
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/* --
*
* client_tipc.c
*
* Short description: TIPC connection demo (client side)
*
* --
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/* --
*
* tipc-pipe.c
*
* Short description: TIPC CLI utility, similar to netcat.
*
* --
*
* Written by Constantine Shulyupin const@makelinux.com for Compass EOS
*
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/* --
*
* tipc_ts_client.c
*
* Short description: Portable TIPC Test Suite -- common client routines
*
* --
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/* --
*
* server_tipc.c
*
* Short description: TIPC connection demo (server side)
*
* --
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/* --
*
* server_tipc.c
*
* Short description: TIPC subscription demo (server side)
*
* --
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* ----------------------------------------------------------------------
*/
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```
/* ----------------------------------------------------------------------
*
* mcast_tipc.c
*
* Short description: TIPC multicast demo (client side)
*
* ----------------------------------------------------------------------
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* ----------------------------------------------------------------------
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*
/opt/cola/permits/2175989091_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/multicast_blast/mcast_tipc.c
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/* --
*
* server_tipc.c
*
* Short description: TIPC hello world demo (server side)
* --
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*/

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* /opt/cola/permits/2175989091_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/hello_world/server_tipc.c

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```
/* ----------------------------------------------------------------------
*
* tipc_c_api_top_subscr.c
*
* Short description:
* ----------------------------------------------------------------------
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*
* ----------------------------------------------------------------------
*/
```

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```
/* ----------------------------------------------------------------------
*
* tipcc.h
*
```

* Short description: TIPC C binding API. The complete TIPC socket API with all
*   standard features is available in <linux/tipc.h>
*
* --
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*
* Version 0.9.3: Jon Maloy, 2015
*
* --
 */

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/* --
*
* tipc_c_api_server.c
*
* Short description:
* --

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*
* --
*/

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/* --
*
* tipc_ts_client_linux.c
*
* Short description: Portable TIPC Test Suite -- client wrapper for Linux
*
* --
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*
* --
*/

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1.659 base-passwd 3.5.29

1.659.1 Available under license :

Format-Specification: http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135
Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and
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1.660 run-postinsts 1.0

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1.661 os-release 1.0

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1.662 shadow-securetty 4.6

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1.663 modutils-initscripts 1.0

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1.667 update-rc-d 0.8

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1.668 tunctl 1.5

1.668.1 Available under license :

No license file was found, but licenses were detected in source scan.

/* Copyright 2002 Jeff Dike
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*/

Found in path(s):
* /opt/cola/permits/2175989059_1725911717.9993913/0/tunctl-1-5-1-tar-gz/tunctl-1.5/tunctl.c
No license file was found, but licenses were detected in source scan.

Name: tunctl
Version: 1.5
Release: 1
Summary: Create and remove virtual network interfaces

Group: Applications/System
License: GPL+
URL: http://tunctl.sourceforge.net/
Source0: http://downloads.sourceforge.net/tunctl/tunctl-%{version}.tar.gz
BuildRoot: %{_tmppath}/%{name}-%{version}-%{release}-root-%(%{__id_u} -n)

BuildRequires: docbook-utils

%description
Virtual network interface manipulation tool from User Mode Linux project.

%prep
%setup

%build
make

%install
rm -rf $RPM_BUILD_ROOT
make DESTDIR=$RPM_BUILD_ROOT install

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root,-)
%{_mandir}/man8/tunctl.8*
%{_sbindir}/tunctl
%doc ChangeLog

%changelog
* Wed Jul 9 2008 Henrik Nordstrom <henrik@henriknordstrom.net> 1.5-1
- Update to version 1.5

* Tue Jul 8 2008 Henrik Nordstrom <henrik@henriknordstrom.net> 1.4-3
- Packaged tunctl as a upstream
 package of it's own

* Tue Mar 25 2008 Lubomir Kundrak <lkundrak@redhat.com> 1.4-2
- Move to sbin (Marek Mahut, #434583)

* Fri Feb 22 2008 Lubomir Kundrak <lkundrak@redhat.com> 1.4-1
- Initial packaging

Found in path(s):
* /opt/cola/permits/2175989059_1725911717.9993913/0/tunctl-1-5-1-tar-gz/tunctl-1.5/tunctl.spec

1.669 cpp 4.6

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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entirely represented in
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2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general
presumption that third-party software is unaffected by the copyleft
requirements of the license of GCC.
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was
 originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU GENERAL PUBLIC LICENSE
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@page
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type `show w'.
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under certain conditions; type `show c' for details.
@end smallexample

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of it
in new free programs; and that you are informed that you can do these
things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems
that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library.
The ordinary
General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it
does @emph{Less} to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free
libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
``work based on the library'' and a ``work that uses the library''. The
former contains code derived from the
library, whereas the latter must
be combined with the library in order to run.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

@enumerate 0
@item
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which contains a notice placed by the copyright holder or other
authorized party saying it may be distributed under the terms of this
Lesser General Public License (also called ``this License''). Each
licensee is addressed as ``you''.

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

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

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

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

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complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

@item
You may modify your copy or copies of the Library or any portion

of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work
based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices,
you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

@enumerate a
@item
Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever

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

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

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

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

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally

accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

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

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refrain entirely from distribution of the Library.

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particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

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be a consequence of the rest of this License.

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copyrighted by the Free Software Foundation, write to the Free
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decision will be guided by the two goals of preserving the free status
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and reuse of software generally.

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@end iftex
@ifinfo
@center NO WARRANTY
@end ifinfo

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IN

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@end enumerate

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

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do
so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation; either version 2.1 of the License, or (at
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Lesser

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You should have received a copy of the GNU Lesser General Public
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USA.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the library, if
necessary. Here is a sample; alter the names:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
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Version 3, 29 June 2007

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License, supplemented by the additional permissions listed below.

0. Additional Definitions.

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General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is

deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying
Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data
structure
layouts and accessors, or small macros, inline functions and templates

(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

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

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

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apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.
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@c Set file name and title for man page.
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
gpl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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@comment node-name, next, previous, up
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@end ifnothtml
@html
<h1 align="center">Installing GCC: GNU Free Documentation License</h1>
@end html
@ifnothtml
@unnumbered GNU Free Documentation License
@end ifnothtml
@end ifset
@c man begin DESCRIPTION
@ifclear gfdlhtml
@node GNU Free Documentation License
@unnumbered
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@end ifclear

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medium customarily used for software interchange.

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

5. A program that contains no derivative of any portion of the
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creates an executable that is a derivative of the Library (because it
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Section 6 states terms for distribution of such executables.

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functions (ten lines or less in length), then the use of the object
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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
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HISTORY -

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

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the

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

Some other contributors:

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

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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OTHER DEALINGS IN THE SOFTWARE.
BSD on the PA already has ANSI include files which are c++ compatible.
STMP_FIXPROTO=
f2c is a Fortran to C converter under development since 1990 by
David M. Gay (then AT&T Bell Labs, now Bell Labs, Lucent Technologies)
Stu Feldman (then at Bellcore, now at IBM)
Mark Maimone (Carnegie-Mellon University)

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1.673 libtraceevent 1.8.2

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libtraceevent(3)
==========

NAME
----
kbuffer_read_event, kbuffer_next_event, kbuffer_missed_events, kbuffer_event_size, kbuffer_curr_size,
kbuffer_curr_offset, kbuffer_curr_index, kbuffer_read_buffer -
Functions to read through the kbuffer sub buffer.

SYNOPSIS

[verse]
--
#include <kbuffer.h>

void pass:[*]*kbuffer_read_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]*kbuffer_next_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]*kbuffer_read_at_offset*(struct kbuffer pass:[*]_kbuf_, int _offset_, unsigned long long pass:[*]_ts_);
int *kbuffer_missed_events*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_event_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_offset*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_index*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_read_buffer*(struct
 kbuffer pass:[*]_kbuf_, void pass:[*]_buffer_, int _len_);
--

DESCRIPTION

The function *kbuffer_read_event()* reads the next event in the _kbuf_ descriptor
and if _ts_ is non NULL, will place its timestamp into it. This does not modify the _kbuf_
descriptor, and calling this function mulitple times will return the same result.

The function *kbuffer_next_event()* will return the next event in the _kbuf_ descriptor.
It will also set the _ts_ to the timestamp of the returned event. NULL is returned
if there are no more events and _ts_ will be undefined. Note, if this is called directly
after a *kbuffer_load_subbuffer()* then it will likely give an unexpected result, as it
will return the second event and not the first event. Usually this function is only used
to move to the next event and to know if there's any more events to read, and
kbuffer_read_event() is always called first.

The function *kbuffer_read_at_offset()* returns the event located at a given
 offset from
the beginning of the sub-buffer. This offset can be retrieved by *kbuffer_curr_offset()*.
If _ts_ points to an unsigned long long, then it will be set to the event at the given
offset's timestamp.

If the sub-buffer had missed events before it, then *kbuffer_missed_events()* will return
the non zero. If it returns -1, that means there were missed events, but the exact number
of missed events is unknown. If it returns a positive number, then the number of missed events
is the return value.

The *kbuffer_event_size()* function returns the size of the data portion of the current event
(the one that would be returned by *kbuffer_read_event()*.

The *kbuffer_curr_size()* function returns the entire record size of the current event
(the one that would be returned by *kbuffer_read_event()*. The difference here is that the

return value includes the size of the event record meta data that is not part of what
is returned by *kbuffer_read_event()*.

The *kbuffer_curr_offset()* function
returns the offset from the beginning of the sub-buffer
of where the current event's meta data for the record begins. The first event will
not be at offset zero. This offset can be used to retrieve the event with
kbuffer_read_at_offset().

The *kbuffer_curr_index()* function returns the index from the beginning of the data
portion of the sub-buffer where the current evnet's meta data is located.
The first event will likely be zero, but may not be if there's a timestamp attached to it.

The *kbuffer_read_buffer()* function will fill the given _buffer_ from the _kbuf_ the same
way the kernel would do a read system call. That is, if the length _len_ is less than the
sub buffer size, or the kbuffer current index is non-zero, it will start copying from the
kbuf current event and create _buffer_ as a new sub buffer (with a timestamp
and commit header) with that event that was found and including all events after that can
fit within _len_. The _len_ must include the size of the sub
buffer header as well as the
events to include. That is, _len_ is the allocate size of _buffer_ that can be filled.
The return from this function is the index of the end of the last event that was added.
If there are no more events then zero is returned, and if the buffer can not
copy any events because _len_ was too small, then -1 is returned.

RETURN VALUE
---
kbuffer_read_event() returns the event that the _kbuf_ descriptor is currently at,
or NULL if the last event was passed (by *kbuffer_next_event()*).

kbuffer_next_event() returns the next event after the current event or NULL if there
are no more events.

kbuffer_read_at_offset() returns the event at a given _offset_ from the start of
the sub-buffer stored in _kbuf_, or NULL if there exists no event. Note, _offset_
only needs to be an offset that lands on the record, or is at the start of it. It does
not need to be exactly at the beginning of the record.

kbuffer_missed_events() returns 0 if there were no missed
events before loaded sub-buffer.
Returns -1 if there were an unknown number of missed events, or if the number of missed events
is known, that number will be returned.

kbuffer_event_size() returns the size of the data payload of the current event of _kbuf_.

kbuffer_curr_size() returns the size of the entire record of the current event of _kbuf_.
This includes the size of the meta data for that record.

kbuf_curr_offset() returns the offset of the current record from the beginning of the _kbuf_
sub-buffer.

kbuf_curr_index() returns the index of the current record from the beginning of the _kbuf_
data section.

kbuf_read_buffer() returns the index of the end of the last event that was filled in
buffer. If there are no more events to copy from _start_ then 0 is returned. If _len_
is not big enough to hold any events, then -1 is returned.

EXAMPLE

[source,c]
--
```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/stat.h>

#include
 <kbuffer.h>

int main (int argc, char **argv)
{
 unsigned long long ts;
 struct kbuffer *kbuf;
 struct stat st;
 char *buf;
 void *event;
 int save_offset = -1;
 int record_size;
 int offset;
 int index;
 int size;
 int ret;
 int fd;
 int i = 0;

 if (argc < 2) {
  printf("usage: %s raw-subbuffer-page\n", argv[0]);
  printf(" Try: dd count=1 bs=4096 if=/sys/kernel/tracing/per_cpu/cpu0/trace_pipe_raw of=/tmp/file\n");
  exit(0);
 }

 if (stat(argv[1], &st) < 0) {
  perror("stat");
```

```
 exit(-1);
}

buf = malloc(st.st_size);
if (!buf) {
 perror("Allocating buffer");
 exit(-1);
}

fd = open(argv[1], O_RDONLY);
if (fd < 0) {
 perror(argv[1]);
 exit(-1);
}

ret = read(fd, buf, st.st_size);
if (ret < 0) {
 perror("Reading buffer");
 exit(-1);
}
close(fd);

kbuf = kbuffer_alloc(KBUFFER_ENDIAN_SAME_AS_HOST,
      KBUFFER_LSIZE_SAME_AS_HOST);
if (!kbuf) {
 perror("Creating kbuffer");
 exit(-1);
}
ret = kbuffer_load_subbuffer(kbuf, buf);
if (ret < 0) {
 perror("Loading
sub bufer");
 exit(-1);
}

if (kbuffer_subbuffer_size(kbuf) > st.st_size) {
 fprintf(stderr, "kbuffer is bigger than raw size %d > %ld\n",
  kbuffer_subbuffer_size(kbuf), st.st_size);
 exit(-1);
}

ret = kbuffer_missed_events(kbuf);
if (ret) {
 if (ret > 0)
  printf("Missed %d events before this buffer\n", ret);
 else
  printf("Missed unknown number of events before this buffer\n");
}
```

```
do {
 event = kbuffer_read_event(kbuf, &ts);
 if (event) {
  record_size = kbuffer_curr_size(kbuf);
  offset = kbuffer_curr_offset(kbuf);
  index = kbuffer_curr_index(kbuf);
  size = kbuffer_event_size(kbuf);

  if (i == 20)
   save_offset = offset;
  printf(" event %3d ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n",
         i++, ts, record_size, size, index, offset);
  event = kbuffer_next_event(kbuf, NULL);
 }
} while (event);

if (!event)
 printf("Finished sub buffer\n");

if (save_offset > 0) {
 event = kbuffer_read_at_offset(kbuf, save_offset, &ts);
 if
(!event) {
  fprintf(stderr, "Funny, can't find event 20 at offset %d\n", save_offset);
  exit(-1);
 }
 record_size = kbuffer_curr_size(kbuf);
 offset = kbuffer_curr_offset(kbuf);
 index = kbuffer_curr_index(kbuf);
 size = kbuffer_event_size(kbuf);

 printf("\n saved event 20 ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n\n",
        ts, record_size, size, index, offset);
}
kbuffer_free(kbuf);

 return 0;
}
--
FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--
```

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
--
REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

LICENSE
----
libtraceevent is Free Software licensed under the GNU LGPL 2.1

RESOURCES
----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

Found
 in path(s):
* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-kbuffer-read.txt
No license file was found, but licenses were detected in source scan.

libtraceevent(3)
================

NAME
----
kbuffer_alloc, kbuffer_dup, kbuffer_free, kbuffer_load_subbuffer, kbuffer_subbuffer, kbuffer_refresh, kbuffer_subbuffer_size, kbuffer_start_of_data - Creating of kbuffer element to parse the Linux kernel tracing ring buffer

SYNOPSIS

[verse]
--
#include <kbuffer.h>

enum kbuffer_endian {
 KBUFFER_ENDIAN_BIG,
 KBUFFER_ENDIAN_LITTLE,
 KBUFFER_ENDIAN_SAME_AS_HOST,

```
};

enum kbuffer_long_size {
 KBUFFER_LSIZE_4,
 KBUFFER_LSIZE_8,
 KBUFFER_LSIZE_SAME_AS_HOST,
};

struct kbuffer;
struct tep_handle;

struct kbuffer pass:[*]*kbuffer_alloc*(enum kbuffer_long_size _size_, enum kbuffer_endian _endian_);
struct kbuffer pass:[*]*kbuffer_dup*(struct kbuffer pass:[*]_kbuf_);
void *kbuffer_free*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_load_subbuffer*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuffer_);
int *kbuffer_subbuffer_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_refresh*(struct
 kbuffer pass:[*]_kbuf_);
int *kbuffer_start_of_data*(struct kbuffer pass:[*]_kbuf_);
void pass:[*]*kbuffer_subbuffer*(struct kbuffer pass:[*]_kbuf);
--

DESCRIPTION
-----------
These functions create a _kbuffer_ handle that can be used to parse the raw sub buffers
of the Linux kernel tracing ring buffer. The ring buffer is found in the tracefs
directory, and can be retrieved by *tracefs_instance_get_file(3)* at
*per_cpu/cpuX/trace_pipe_raw* where *X* is replaced by the per CPU number of
the specified ring buffer. The ring buffer inside the kernel is split up per
CPU, such that the raw ring buffer must be retrieved per CPU as well.

The *kbuffer_alloc()* will create a descriptor that can be used to manage a sub buffer
read by the ring buffer. The _size_ parameter denotes what the word size is
for the given buffer (note, this works from reading raw data from machines other
than the machine that is calling this function). The _endian_ denotes the endian
for the machine.

If
 _endian_ is set to _KBUFFER_ENDIAN_SAME_AS_HOST_ the endian will be set to the same
as the host endianess, which is useful when the application is reading the
ring buffer data directly from the same machine it is running on.

If _size_ is set to _KBUFFER_LSIZE_SAME_AS_HOST_, if the word size is 8, it will
set the kbuffer descriptor to long size of 8. But if the size is 4, then it
will then perform a *uname(2)* call, and if the _machine_ field has the string "64"
in it, it will be set to 8 byte long size and not 4 byte. This is because the
ring buffer long size is dependent on the kernel and not user space.
```

The *kbuffer_dup()* function will duplicate an existing kbuffer structure with
an allocated new one. It will have all the properties of the passed in _kbuf_,
including pointing to the same subbuffer that was loaded in the _kbuf_.
It must be freed with *kbuffer_free()*.

The *kbuffer_free()* function will free the resources created by *kbuffer_alloc()*.

The *kbuffer_load_subbuffer()*
will take a _subbuffer_ which is a raw data blob
from the tracefs *trace_pipe_raw* file. The Linux tracing ring buffer is broken up
into sub buffers. Each sub buffer is as stand alone data segment that has all the
information to split out the individual events and time stamps. This sub buffer
is what kbuffer uses to walk the events.

The *kbuffer_subbuffer_size()* returns the location of the end of the last event
on the sub-buffer. It does not return the size of the sub-buffer itself.

The *kbuffer_refresh()* is to be used if more writes were done on the loaded kbuffer
where the size of the kbuffer needs to be refreshed to be able to read the new
events that were written since the last *kbuffer_load_subbuffer()* was called on it.

Note, no memory barriers are implemented with this function and any synchronization
with the writer is the responsibility of the application.

The *kbuffer_start_of_data()* function returns the offset of where the actual
data load of the sub-buffer
begins.

The *kbuffer_subbuffer()* function returns the pointer to the currently loaded
subbuffer. That is, the last subbuffer that was loaded by *kbuffer_load_subbuffer()*.
If no subbuffer was loaded NULL is returned.

RETURN VALUE
---
kbuffer_alloc() returns an allocated kbuffer descriptor or NULL on error.
The returned descriptor must be freed with *kbuffer_free()*

kbuffer_load_subbuffer() returns 0 on success and -1 on error.

kbuffer_subbuffer_size() returns the index on the subbuffer where the end
of the last event is located.

kbuffer_start_of_data() returns the offset of where the data begins on the
sub-buffer loaded in _kbuf_.

kbuffer_subbuffer() returns the last loaded subbuffer to _kbuf_ that was loaded
by *kbuffer_load_subbuffer()* or NULL if none was loaded.

kbuffer_refresh() returns 0 on success and -1 if _kbuf_ is NULL or it does not
have a subbuffer loaded via *kbuffer_load_subbuffer()*.

EXAMPLE

[source,c]
--
```
#include <stdio.h>
#include
 <stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/stat.h>

#include <kbuffer.h>

int main (int argc, char **argv)
{
 unsigned long long ts;
 struct kbuffer *kbuf;
 struct stat st;
 char *buf;
 void *event;
 int ret;
 int fd;
 int i = 0;

 if (argc < 2) {
  printf("usage: %s raw-subbuffer-page\n", argv[0]);
  printf(" Try: dd count=1 bs=4096 if=/sys/kernel/tracing/per_cpu/cpu0/trace_pipe_raw of=/tmp/file\n");
  exit(0);
 }

 if (stat(argv[1], &st) < 0) {
  perror("stat");
  exit(-1);
 }

 buf = malloc(st.st_size);
 if (!buf) {
  perror("Allocating buffer");
  exit(-1);
 }

 fd = open(argv[1], O_RDONLY);
 if (fd < 0) {
  perror(argv[1]);
  exit(-1);
```

```
 }

 ret = read(fd, buf, st.st_size);
 if (ret < 0) {
  perror("Reading buffer");
  exit(-1);
 }
 close(fd);

 kbuf = kbuffer_alloc(KBUFFER_ENDIAN_SAME_AS_HOST,
       KBUFFER_LSIZE_SAME_AS_HOST);
 if (!kbuf) {
  perror("Creating kbuffer");
  exit(-1);
 }
 ret = kbuffer_load_subbuffer(kbuf, buf);
 if (ret < 0) {
  perror("Loading
 sub bufer");
  exit(-1);
 }

 if (kbuffer_subbuffer_size(kbuf) > st.st_size) {
  fprintf(stderr, "kbuffer is bigger than raw size %d > %ld\n",
   kbuffer_subbuffer_size(kbuf), st.st_size);
  exit(-1);
 }

 printf("Kbuffer data starts at %d\n", kbuffer_start_of_data(kbuf));
 do {
  event = kbuffer_read_event(kbuf, &ts);
  if (event) {
   printf(" event %3d ts:%lld\n", i++, ts);
   event = kbuffer_next_event(kbuf, NULL);
  }
 } while (event);

 if (!event)
  printf("Finished sub buffer\n");

 kbuffer_free(kbuf);

 return 0;
 }
 --
 FILES
 -----
 [verse]
```

--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
--
REPORTING BUGS

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LICENSE
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RESOURCES
----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

Found in path(s):
* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-kbuffer-create.txt
No license file was found, but licenses were detected in source scan.

libtraceevent(3)
==========

NAME
----
tep_load_plugins, tep_unload_plugins, tep_load_plugins_hook, tep_add_plugin_path, tep_plugin_add_option - Load / unload traceevent plugins.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_plugin_list pass:[*]*tep_load_plugins*(struct tep_handle pass:[*]_tep_);
void *tep_unload_plugins*(struct tep_plugin_list pass:[*]_plugin_list_, struct tep_handle pass:[*]_tep_);
void *tep_load_plugins_hook*(struct tep_handle pass:[*]_tep_, const char pass:[*]_suffix_,
     void (pass:[*]_load_plugin_)(struct tep_handle pass:[*]tep,
          const char pass:[*]path,
          const char pass:[*]name,
          void pass:[*]data),
     void pass:[*]_data_);
int *tep_add_plugin_path*(struct tep_handle pass:[*]tep, char pass:[*]path,
    enum tep_plugin_load_priority prio);
int *tep_plugin_add_option*(const char pass:[*]_name_, const char pass:[*]_val_);
--

DESCRIPTION

The
 tep_load_plugins() function loads all plugins, located in the plugin
directories. The _tep_ argument is trace event parser context.
The plugin directories are :
[verse]
--
 - Directories, specified in _tep_->plugins_dir with priority TEP_PLUGIN_FIRST
 - System's plugin directory, defined at the library compile time. It
   depends on the library installation prefix and usually is
   _(install_preffix)/lib/traceevent/plugins_
 - Directory, defined by the environment variable _TRACEEVENT_PLUGIN_DIR_
 - User's plugin directory, located at _~/.local/lib/traceevent/plugins_
 - Directories, specified in _tep_->plugins_dir with priority TEP_PLUGIN_LAST
--
Loading of plugins can be controlled by the _tep_flags_, using the
tep_set_flag() API:
[verse]
--
 _TEP_DISABLE_SYS_PLUGINS_ - do not load plugins, located in
     the system's plugin directory.
 _TEP_DISABLE_PLUGINS_ - do not load any plugins.
--
The *tep_set_flag()* API needs to be called before *tep_load_plugins()*,
 if
loading of all plugins is not the desired case.

The *tep_unload_plugins()* function unloads the plugins, previously loaded by
tep_load_plugins(). The _tep_ argument is trace event parser context. The
_plugin_list_ is the list of loaded plugins, returned by
the *tep_load_plugins()* function.

The *tep_load_plugins_hook()* function walks through all directories with plugins

and calls user specified *load_plugin()* hook for each plugin file. Only files
with given _suffix_ are considered to be plugins. The _data_ is a user specified
context, passed to *load_plugin()*. Directories and the walk order are the same
as in *tep_load_plugins()* API.

The *tep_add_plugin_path()* functions adds additional directories with plugins in
the _tep_->plugins_dir list. It must be called before *tep_load_plugins()* in order
for the plugins from the new directories to be loaded. The _tep_ argument is
the trace event parser context. The _path_ is the full path to the new plugin
directory. The _prio_
argument specifies the loading priority order for the
new directory of plugins. The loading priority is important in case of different
versions of the same plugin located in multiple plugin directories.The last loaded
plugin wins. The priority can be:
[verse]
--
_TEP_PLUGIN_FIRST_ - Load plugins from this directory first
_TEP_PLUGIN_LAST_ - Load plugins from this directory last
--
Where the plugins in TEP_PLUGIN_LAST" will take precedence over the
plugins in the other directories.

The *tep_plugin_add_option()* sets options defined by a plugin. The _name_ is the
name of the option to set to _val_. Plugins can add options to change its behavior
and *tep_plugin_add_option()* is used by the application to make those modifications.

RETURN VALUE

The *tep_load_plugins()* function returns a list of successfully loaded plugins,
or NULL in case no plugins are loaded.
The *tep_add_plugin_path()* function returns -1 in case of an error, 0 otherwise.

EXAMPLE

[source,c]
--
#include
<event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
tep_add_plugin_path(tep, "~/dev_plugins", TEP_PLUGIN_LAST);
...
struct tep_plugin_list *plugins = tep_load_plugins(tep);
if (plugins == NULL) {
/* no plugins are loaded */
}

```
...
tep_unload_plugins(plugins, tep);
...
void print_plugin(struct tep_handle *tep, const char *path,
    const char *name, void *data)
{
 pritnf("Found libtraceevent plugin %s/%s\n", path, name);
}
...
tep_load_plugins_hook(tep, ".so", print_plugin, NULL);
...
```
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1), *tep_set_flag*(3)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

LICENSE
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RESOURCES
----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

Found in path(s):

* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-plugins.txt
No license file was found, but licenses were detected in source scan.

libtraceevent(3)
==========

NAME
----
tep_register_event_handler, tep_unregister_event_handler - Register / unregisters a callback function to parse an event information.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_reg_handler* {
 _TEP_REGISTER_SUCCESS_,
 _TEP_REGISTER_SUCCESS_OVERWRITE_,
};

int *tep_register_event_handler*(struct tep_handle pass:[*]_tep_, int _id_, const char pass:[*]_sys_name_, const char pass:[*]_event_name_, tep_event_handler_func _func_, void pass:[*]_context_);
int *tep_unregister_event_handler*(struct tep_handle pass:[*]tep, int id, const char pass:[*]sys_name, const char pass:[*]event_name, tep_event_handler_func func, void pass:[*]_context_);

typedef int (*pass:[*]tep_event_handler_func*)(struct trace_seq pass:[*]s, struct tep_record pass:[*]record, struct tep_event pass:[*]event, void pass:[*]context);
--

DESCRIPTION

The *tep_register_event_handler()*
 function registers a handler function,
which is going to be called to parse the information for a given event.
The _tep_ argument is the trace event parser context. The _id_ argument is
the id of the event. The _sys_name_ argument is the name of the system,
the event belongs to. The _event_name_ argument is the name of the event.
If _id_ is >= 0, it is used to find the event, otherwise _sys_name_ and
_event_name_ are used. The _func_ is a pointer to the function, which is going
to be called to parse the event information. The _context_ argument is a pointer
to the context data, which will be passed to the _func_. If a handler function
for the same event is already registered, it will be overridden with the new
one. This mechanism allows a developer to override the parsing of a given event.
If for some reason the default print format is not sufficient, the developer
can register a function for an event to be used to parse the data instead.

The *tep_unregister_event_handler()* function
unregisters the handler function,
previously registered with *tep_register_event_handler()*. The _tep_ argument
is the trace event parser context. The _id_, _sys_name_, _event_name_, _func_,
and _context_ are the same arguments, as when the callback function _func_ was
registered.

The _tep_event_handler_func_ is the type of the custom event handler
function. The _s_ argument is the trace sequence, it can be used to create a
custom string, describing the event. A _record_ to get the event from is passed
as input parameter and also the _event_ - the handle to the record's event. The
context is custom context, set when the custom event handler is registered.

RETURN VALUE

The *tep_register_event_handler()* function returns _TEP_REGISTER_SUCCESS_
if the new handler is registered successfully or
_TEP_REGISTER_SUCCESS_OVERWRITE_ if an existing handler is overwritten.
If there is not enough memory to complete the registration,
TEP_ERRNO__MEM_ALLOC_FAILED is returned.

The
tep_unregister_event_handler() function returns 0 if _func_ was removed
successful or, -1 if the event was not found.

The _tep_event_handler_func_ should return -1 in case of an error,
or 0 otherwise.

EXAMPLE

[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
int timer_expire_handler(struct trace_seq *s, struct tep_record *record,
    struct tep_event *event, void *context)
{
 trace_seq_printf(s, "hrtimer=");

 if (tep_print_num_field(s, "0x%llx", event, "timer", record, 0) == -1)
  tep_print_num_field(s, "0x%llx", event, "hrtimer", record, 1);

 trace_seq_printf(s, " now=");

```
 tep_print_num_field(s, "%llu", event, "now", record, 1);

 tep_print_func_field(s, " function=%s", event, "function", record, 0);

 return 0;
}
...
 int ret;

 ret = tep_register_event_handler(tep, -1, "timer", "hrtimer_expire_entry",
     timer_expire_handler, NULL);
 if (ret < 0) {
  char buf[32];

  tep_strerror(tep, ret, buf, 32)
  printf("Failed
 to register handler for hrtimer_expire_entry: %s\n", buf);
 } else {
  switch (ret) {
  case TEP_REGISTER_SUCCESS:
   printf ("Registered handler for hrtimer_expire_entry\n");
   break;
  case TEP_REGISTER_SUCCESS_OVERWRITE:
   printf ("Overwrote handler for hrtimer_expire_entry\n");
   break;
  }
 }
...
 ret = tep_unregister_event_handler(tep, -1, "timer", "hrtimer_expire_entry",
       timer_expire_handler, NULL);
 if ( ret )
  printf ("Failed to unregister handler for hrtimer_expire_entry\n");
```

--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
trace-seq.h
 Header file to include in order to have access to trace sequences
 related APIs. Trace sequences are used to allow a function to call
 several other functions to create a string of data to use.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
*Steven
 Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS

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LICENSE
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RESOURCES
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https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-reg_event_handler.txt
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libtraceevent(3)
================

NAME
----
tep_print_field_content, tep_print_fields, tep_print_num_field, tep_print_func_field, tep_record_print_fields, tep_record_print_selected_fields -
Print the field content.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

void *tep_print_field_content*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int size, struct tep_format_field pass:[*]_field_);

void *tep_print_fields*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int _size_, struct tep_event pass:[*]_event_);
int *tep_print_num_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int _err_);
int *tep_print_func_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int
err);
void *tep_record_print_fields*(struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event_);
void *tep_record_print_selected_fields*(struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event_, int _select_mask_);
--

DESCRIPTION

These functions print recorded field's data, according to the field's type.

The *tep_print_field_content()* function extracts from the recorded raw _data_ value of the _field_ and prints it into _s_, according to the field type.

The *tep_print_fields()* prints each field name followed by the record's field value according to the field's type:
[verse]
--
"field1_name=field1_value field2_name=field2_value ..."
--
It iterates all fields of the _event_, and calls *tep_print_field_content()* for each of them.

The *tep_print_num_field()* function prints a numeric field with given format string. A search is performed in the _event_ for a field with _name_. If such field
is found, its value is extracted from the _record_ and is printed in the _s_, according to the given format string _fmt_. If the argument _err_ is non-zero, and an error occures - it is printed in the _s_.

The *tep_print_func_field()* function prints a function field with given format string. A search is performed in the _event_ for a field with _name_. If such field is found, its value is extracted from the _record_. The value is assumed to be a function address, and a search is perform to find the name of this function. The function name (if found) and its address are printed in the _s_, according to the given format string _fmt_. If the argument _err_ is non-zero, and an error occures - it is printed in _s_.

The *tep_record_print_fields()* prints the field's name followed by its value for all record's field.

The *tep_record_print_selected_fields()* prints the field's name followed by

its value for selected subset of record field. The fields to be printed are
defined by the _select_mask_
 bit mask.

RETURN VALUE

The *tep_print_num_field()* and *tep_print_func_field()* functions return 1
on success, -1 in case of an error or 0 if the print buffer _s_ is full.

EXAMPLE

[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
struct trace_seq seq;
trace_seq_init(&seq);
struct tep_event *event = tep_find_event_by_name(tep, "timer", "hrtimer_start");
...
void process_record(struct tep_record *record)
{
 struct tep_format_field *field_pid = tep_find_common_field(event, "common_pid");

 trace_seq_reset(&seq);

 /* Print the value of "common_pid" */
 tep_print_field_content(&seq, record->data, record->size, field_pid);

 /* Print all fields of the "hrtimer_start" event */
 tep_print_fields(&seq, record->data, record->size, event);

 /* Print the value of "expires" field with custom format string */
 tep_print_num_field(&seq, " timer expires in %llu ", event, "expires", record, 0);

 /* Print the
 address and the name of "function" field with custom format string */
 tep_print_func_field(&seq, " timer function is %s ", event, "function", record, 0);
}
...
--

FILES

[verse]
--

event-parse.h
 Header file to include in order to have access to the library APIs.
trace-seq.h
 Header file to include in order to have access to trace sequences related APIs.
 Trace sequences are used to allow a function to call several other functions
 to create a string of data to use.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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----
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libtraceevent(3)
================

NAME
----
tep_get_cpus, tep_set_cpus - Get / set the number of CPUs, which have a tracing
buffer representing it. Note, the buffer may be empty.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_get_cpus*(struct tep_handle pass:[*]_tep_);
void *tep_set_cpus*(struct tep_handle pass:[*]_tep_, int _cpus_);
--

DESCRIPTION

The *tep_get_cpus()* function gets the number of CPUs, which have a tracing
buffer representing it. The _tep_ argument is trace event parser context.

The *tep_set_cpus()* function sets the number of CPUs, which have a tracing
buffer representing it. The _tep_ argument is trace event parser context.
The _cpu_ argument is the number of CPUs with tracing data.

RETURN VALUE

The *tep_get_cpus()* functions returns the number of CPUs, which have tracing
data recorded.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct
 tep_handle *tep = tep_alloc();
...
 tep_set_cpus(tep, 5);
...
 printf("We have tracing data for %d CPUs", tep_get_cpus(tep));
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO

----
libtraceevent(3), *trace-cmd*(1)

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libtraceevent(3)
================

NAME
----
tep_data_type, tep_data_pid,tep_data_preempt_count, tep_data_flags -
Extract common fields from a record.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *trace_flag_type* {
 _TRACE_FLAG_IRQS_OFF_,
 _TRACE_FLAG_IRQS_NOSUPPORT_,
 _TRACE_FLAG_NEED_RESCHED_,
 _TRACE_FLAG_HARDIRQ_,
 _TRACE_FLAG_SOFTIRQ_,
};

int *tep_data_type*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_pid*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_preempt_count*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_flags*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
--

DESCRIPTION

This set of functions can be used to extract common fields from a record.

The *tep_data_type()* function gets the event id from the record _rec_.
It reads the "common_type" field.
The _tep_ argument is the trace event parser
context.

The *tep_data_pid()* function gets the process id from the record _rec_.
It reads the "common_pid" field. The _tep_ argument is the trace event parser
context.

The *tep_data_preempt_count()* function gets the preemption count from the
record _rec_. It reads the "common_preempt_count" field. The _tep_ argument is
the trace event parser context.

The *tep_data_flags()* function gets the latency flags from the record _rec_.
It reads the "common_flags" field. The _tep_ argument is the trace event parser
context. Supported latency flags are:
[verse]
--
_TRACE_FLAG_IRQS_OFF_, Interrupts are disabled.
_TRACE_FLAG_IRQS_NOSUPPORT_, Reading IRQ flag is not supported by the architecture.
_TRACE_FLAG_NEED_RESCHED_, Task needs rescheduling.
_TRACE_FLAG_HARDIRQ_, Hard IRQ is running.
_TRACE_FLAG_SOFTIRQ_, Soft IRQ is running.
--

RETURN VALUE

The *tep_data_type()* function returns an integer, representing the event id.

The
tep_data_pid() function returns an integer, representing the process id

The *tep_data_preempt_count()* function returns an integer, representing the
preemption count.

The *tep_data_flags()* function returns an integer, representing the latency
flags. Look at the _trace_flag_type_ enum for supported flags.

All these functions in case of an error return a negative integer.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
void process_record(struct tep_record *record)
{
 int data;

 data = tep_data_type(tep, record);
 if (data >= 0) {
  /* Got the ID of the event */
 }

 data = tep_data_pid(tep, record);
 if (data >= 0) {
  /* Got the process ID */
 }

 data = tep_data_preempt_count(tep, record);
 if (data >= 0) {
  /* Got the preemption count */
 }

 data = tep_data_flags(tep, record);
 if (data >= 0) {
  /* Got the latency flags */
 }
}
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access
 to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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libtraceevent(3)
================

NAME
----
tep_register_comm, tep_override_comm, tep_is_pid_registered,
tep_data_comm_from_pid, tep_data_pid_from_comm, tep_cmdline_pid -
Manage pid to process name mappings.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_register_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
int *tep_override_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
bool *tep_is_pid_registered*(struct tep_handle pass:[*]_tep_, int _pid_);
const char pass:[*]*tep_data_comm_from_pid*(struct tep_handle pass:[*]_pevent_, int _pid_);

struct cmdline pass:[*]*tep_data_pid_from_comm*(struct tep_handle pass:[*]_pevent_, const char pass:[*]_comm_,
struct cmdline pass:[*]_next_);
int *tep_cmdline_pid*(struct tep_handle pass:[*]_pevent_, struct cmdline pass:[*]_cmdline_);
--

DESCRIPTION

These functions can be used to handle the
mapping between pid and process name.
The library builds a cache of these mappings, which is used to display the name
of the process, instead of its pid. This information can be retrieved from
tracefs/saved_cmdlines file.

The *tep_register_comm()* function registers a _pid_ / process name mapping.
If a command with the same _pid_ is already registered, an error is returned.
The _pid_ argument is the process ID, the _comm_ argument is the process name,
tep is the event context. The _comm_ is duplicated internally.

The *tep_override_comm()* function registers a _pid_ / process name mapping.
If a process with the same pid is already registered, the process name string is
udapted with the new one. The _pid_ argument is the process ID, the _comm_
argument is the process name, _tep_ is the event context. The _comm_ is
duplicated internally.

The *tep_is_pid_registered()* function checks if a pid has a process name
mapping registered. The _pid_ argument is the process ID, _tep_ is the event
context.

The
tep_data_comm_from_pid() function returns the process name for a given
pid. The _pid_ argument is the process ID, _tep_ is the event context.
The returned string should not be freed, but will be freed when the _tep_
handler is closed.

The *tep_data_pid_from_comm()* function returns a pid for a given process name.
The _comm_ argument is the process name, _tep_ is the event context.
The argument _next_ is the cmdline structure to search for the next pid.
As there may be more than one pid for a given process, the result of this call
can be passed back into a recurring call in the _next_ parameter, to search for
the next pid. If _next_ is NULL, it will return the first pid associated with
the _comm_. The function performs a linear search, so it may be slow.

The *tep_cmdline_pid()* function returns the pid associated with a given
cmdline. The _tep_ argument is the event context.

RETURN VALUE
---
tep_register_comm() function returns 0 on success. In case of

an error -1 is
returned and errno is set to indicate the cause of the problem: ENOMEM, if there is not enough memory to duplicate the _comm_ or EEXIST if a mapping for this _pid_ is already registered.

tep_override_comm() function returns 0 on success. In case of an error -1 is returned and errno is set to indicate the cause of the problem: ENOMEM, if there is not enough memory to duplicate the _comm_.

tep_is_pid_registered() function returns true if the _pid_ has a process name mapped to it, false otherwise.

tep_data_comm_from_pid() function returns the process name as string, or the string "<...>" if there is no mapping for the given pid.

tep_data_pid_from_comm() function returns a pointer to a struct cmdline, that holds a pid for a given process, or NULL if none is found. This result can be passed back into a recurring call as the _next_ parameter of the function.

tep_cmdline_pid() functions returns the pid for the give cmdline. If _cmdline_ is NULL, then -1 is returned.

EXAMPLE

The
following example registers pid for command "ls", in context of event _tep_ and performs various searches for pid / process name mappings:
[source,c]
--
```
#include <event-parse.h>
...
int ret;
int ls_pid = 1021;
struct tep_handle *tep = tep_alloc();
...
 ret = tep_register_comm(tep, "ls", ls_pid);
 if (ret != 0 && errno == EEXIST)
  ret = tep_override_comm(tep, "ls", ls_pid);
 if (ret != 0) {
  /* Failed to register pid / command mapping */
 }
...
 if (tep_is_pid_registered(tep, ls_pid) == 0) {
  /* Command mapping for ls_pid is not registered */
 }
...
 const char *comm = tep_data_comm_from_pid(tep, ls_pid);
 if (comm) {
```

```
 /* Found process name for ls_pid */
 }
...
 int pid;
 struct cmdline *cmd = tep_data_pid_from_comm(tep, "ls", NULL);
 while (cmd) {
  pid = tep_cmdline_pid(tep, cmd);
  /* Found pid for process "ls" */
  cmd = tep_data_pid_from_comm(tep, "ls", cmd);
 }
```

--

FILES

[verse]

--

event-parse.h

Header file to include in order to have access

to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

---

libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.

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libtraceevent(3)
==========

NAME
----
tep_parse_header_page - Parses the data stored in the header page.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_parse_header_page*(struct tep_handle pass:[*]_tep_, char pass:[*]_buf_, unsigned long _size_, int _long_size_);
--

DESCRIPTION

The *tep_parse_header_page()* function parses the header page data from _buf_,
and initializes the _tep_, trace event parser context, with it. The buffer
buf is with _size_, and is supposed to be copied from
tracefs/events/header_page.

Some old kernels do not have header page info, in this case the
tep_parse_header_page() function can be called with _size_ equal to 0. The
tep context is initialized with default values. The _long_size_ can be used in
this use case, to set the size of a long integer to be used.

RETURN VALUE

The *tep_parse_header_page()* function returns 0 in case of success,
 or -1
in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
char *buf;
int size;
buf = read_file("/sys/kernel/tracing/events/header_page", &size);

```
if (tep_parse_header_page(tep, buf, size, sizeof(unsigned long)) != 0) {
 /* Failed to parse the header page */
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
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1.8.2/Documentation/libtraceevent-parse_head.txt
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libtraceevent(3)
================
```

NAME
----
tep_strerror - Returns a string describing regular errno and tep error number.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_strerror*(struct tep_handle pass:[*]_tep_, enum tep_errno _errnum_, char pass:[*]_buf_, size_t _buflen_);

--
DESCRIPTION

The *tep_strerror()* function converts tep error number into a human
readable string.
The _tep_ argument is trace event parser context. The _errnum_ is a regular
errno, defined in errno.h, or a tep error number. The string, describing this
error number is copied in the _buf_ argument. The _buflen_ argument is
the size of the _buf_.

It as a thread safe wrapper around strerror_r(). The library function has two
different behaviors - POSIX and GNU specific. The *tep_strerror()* API always
behaves as the POSIX version - the error string is copied in the user supplied
buffer.

RETURN VALUE

The
 tep_strerror() function returns 0, if a valid _errnum_ is passed and the
string is copied into _buf_. If _errnum_ is not a valid error number,
-1 is returned and _buf_ is not modified.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
char buf[32];
char *pool = calloc(1, 128);
if (tep == NULL) {
 tep_strerror(tep, TEP_ERRNO__MEM_ALLOC_FAILED, buf, 32);
 printf ("The pool is not initialized, %s", buf);
}

...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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libtraceevent(3)
================

NAME
----
tep_set_flag, tep_clear_flag, tep_test_flag -

Manage flags of trace event parser context.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_flag* {
 _TEP_NSEC_OUTPUT_,
 _TEP_DISABLE_SYS_PLUGINS_,
 _TEP_DISABLE_PLUGINS_
};
void *tep_set_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
void *tep_clear_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
bool *tep_test_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
--

DESCRIPTION

Trace event parser context flags are defined in *enum tep_flag*:
[verse]
--
_TEP_NSEC_OUTPUT_ - print event's timestamp in nano seconds, instead of micro seconds.
_TEP_DISABLE_SYS_PLUGINS_ - disable plugins, located in system's plugin
  directory. This directory is defined at library compile
  time, and usually depends on library installation
  prefix: (install_preffix)/lib/traceevent/plugins
_TEP_DISABLE_PLUGINS_
 - disable all library plugins:
  - in system's plugin directory
  - in directory, defined by the environment variable _TRACEEVENT_PLUGIN_DIR_
  - in user's home directory, _~/.traceevent/plugins_
--
Note: plugin related flags must me set before calling *tep_load_plugins()* API.

The *tep_set_flag()* function sets _flag_ to _tep_ context.

The *tep_clear_flag()* function clears _flag_ from _tep_ context.

The *tep_test_flag()* function tests if _flag_ is set to _tep_ context.

RETURN VALUE
----
tep_test_flag() function returns true if _flag_ is set, false otherwise.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
/* Print timestamps in nanoseconds */
tep_set_flag(tep, TEP_NSEC_OUTPUT);
...
if (tep_test_flag(tep, TEP_NSEC_OUTPUT)) {
 /* print timestamps in nanoseconds */
} else {
 /* print timestamps in microseconds */
}
...
/* Print timestamps in microseconds */
tep_clear_flag(tep, TEP_NSEC_OUTPUT);
...
--

FILES

[verse]
--
event-parse.h
 Header
 file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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libtraceevent(3)
==========

NAME
---
tep_read_number - Reads a number from raw data.

SYNOPSIS

[verse]
--
#include <event-parse.h>

unsigned long long *tep_read_number*(struct tep_handle pass:[*]_tep_, const void pass:[*]_ptr_, int _size_);
--

DESCRIPTION

The *tep_read_number()* function reads an integer from raw data, taking into
account the endianness of the raw data and the current host. The _tep_ argument
is the trace event parser context. The _ptr_ is a pointer to the raw data, where
the integer is, and the _size_ is the size of the integer.

RETURN VALUE

The *tep_read_number()* function returns the integer in the byte order of
the current host. In case of an error, 0 is returned.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
void process_record(struct tep_record *record)
{

```
 int offset = 24;
 int data = tep_read_number(tep,
 record->data + offset, 4);

 /* Read the 4 bytes at the offset 24 of data as an integer */
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
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*-ltraceevent*
 Linker switch to add when building a program that uses the library.
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SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

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license: 'LGPL-2.1',
```

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libtraceevent(3)
==========

NAME
----
tep_set_loglevel - Set log level of the library

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_loglevel* {
 TEP_LOG_NONE = 0,
 TEP_LOG_CRITICAL,
 TEP_LOG_ERROR,
 TEP_LOG_WARNING,
 TEP_LOG_INFO,
 TEP_LOG_DEBUG,
 TEP_LOG_ALL
};

int *tep_set_loglevel*(enum tep_loglevel _level_);

--
DESCRIPTION

The *tep_set_loglevel()* function sets the level of the library logs that will be printed
on the console. Library log levels are:
[verse]
--
 _TEP_LOG_NONE_ - Do not print any logs.
 _TEP_LOG_CRITICAL_ - Print critical logs, problem that may cause a crash.
 _TEP_LOG_ERROR_ - Print error logs, problem that could break the main logic of an API.
 _TEP_LOG_WARNING_ - Print warnings, problem that could limit the result of an API.
 _TEP_LOG_INFO_ - Print information about normal execution of an API.
 _TEP_LOG_DEBUG_ - Print debug information.
 _TEP_LOG_ALL_
 - Print logs from all levels.
--
Setting the log level to specific value means that logs from the previous levels will be printed
too. For example _TEP_LOG_WARNING_ will print any logs with severity _TEP_LOG_WARNING_,

_TEP_LOG_ERROR_ and _TEP_LOG_CRITICAL_. The default log level is _TEP_LOG_CRITICAL_.

EXAMPLE

[source,c]
--
#include <event-parse.h>

tep_set_loglevel(TEP_LOG_ALL);
...
/* call libtraceevent APIs and observe any logs they produce */
...
tep_set_loglevel(TEP_LOG_CRITICAL);
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

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RESOURCES
----

https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-log.txt
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libtraceevent(3)
==========

NAME
----
tep_register_print_function,tep_unregister_print_function -
Registers / Unregisters a helper function.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_func_arg_type* {
 TEP_FUNC_ARG_VOID,
 TEP_FUNC_ARG_INT,
 TEP_FUNC_ARG_LONG,
 TEP_FUNC_ARG_STRING,
 TEP_FUNC_ARG_PTR,
 TEP_FUNC_ARG_MAX_TYPES
};

typedef unsigned long long (*pass:[*]tep_func_handler*)(struct trace_seq pass:[*]s, unsigned long long pass:[*]args);

int *tep_register_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, enum tep_func_arg_type _ret_type_, char pass:[*]_name_, _..._);
int *tep_unregister_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, char pass:[*]_name_);
--

DESCRIPTION

Some events may have helper functions in the print format arguments.
This allows a plugin to dynamically create a way to process one of
these functions.

The
 tep_register_print_function() registers such helper function. The _tep_
argument is the trace event parser context. The _func_ argument is a pointer

to the helper function. The _ret_type_ argument is the return type of the
helper function, value from the _tep_func_arg_type_ enum. The _name_ is the name
of the helper function, as seen in the print format arguments. The _..._ is a
variable list of _tep_func_arg_type_ enums, the _func_ function arguments.
This list must end with _TEP_FUNC_ARG_VOID_. See 'EXAMPLE' section.

The *tep_unregister_print_function()* unregisters a helper function, previously
registered with *tep_register_print_function()*. The _tep_ argument is the
trace event parser context. The _func_ and _name_ arguments are the same, used
when the helper function was registered.

The _tep_func_handler_ is the type of the helper function. The _s_ argument is
the trace sequence, it can be used to create a custom string.
The _args_ is a list of arguments, defined when
 the helper function was
registered.

RETURN VALUE

The *tep_register_print_function()* function returns 0 in case of success.
In case of an error, TEP_ERRNO_... code is returned.

The *tep_unregister_print_function()* returns 0 in case of success, or -1 in
case of an error.

EXAMPLE

Some events have internal functions calls, that appear in the print format
output. For example "tracefs/events/i915/g4x_wm/format" has:
[source,c]
--
print fmt: "pipe %c, frame=%u, scanline=%u, wm %d/%d/%d, sr %s/%d/%d/%d, hpll %s/%d/%d/%d, fbc %s",
    ((REC->pipe) + 'A'), REC->frame, REC->scanline, REC->primary,
    REC->sprite, REC->cursor, yesno(REC->cxsr), REC->sr_plane,
    REC->sr_cursor, REC->sr_fbc, yesno(REC->hpll), REC->hpll_plane,
    REC->hpll_cursor, REC->hpll_fbc, yesno(REC->fbc)
--
Notice the call to function *yesno()* in the print arguments. In the kernel
context, this function has the following implementation:
[source,c]
--
static const char *yesno(int x)
{
 static
 const char *yes = "yes";
 static const char *no = "no";

 return x ? yes : no;

```
}
--
The user space event parser has no idea how to handle this *yesno()* function.
The *tep_register_print_function()* API can be used to register a user space
helper function, mapped to the kernel's *yesno()*:
[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
static const char *yes_no_helper(int x)
{
 return x ? "yes" : "no";
}
...
 if ( tep_register_print_function(tep,
        yes_no_helper,
        TEP_FUNC_ARG_STRING,
        "yesno",
        TEP_FUNC_ARG_INT,
        TEP_FUNC_ARG_VOID) != 0) {
  /* Failed to register yes_no_helper function */
 }

/*
  Now, when the event parser encounters this yesno() function, it will know
  how to handle it.
*/
...
 if (tep_unregister_print_function(tep, yes_no_helper, "yesno") != 0) {
  /* Failed to unregister yes_no_helper function */
 }
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include
 in order to have access to the library APIs.
*trace-seq.h*
 Header file to include in order to have access to trace sequences
 related APIs. Trace sequences are used to allow a function to call
 several other functions to create a string of data to use.
*-ltraceevent*
```

Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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libtraceevent(3)
================

NAME
----
tep_get_long_size, tep_set_long_size - Get / set the size of a long integer on
the machine, where the trace is generated, in bytes

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_get_long_size*(strucqt tep_handle pass:[*]_tep_);
void *tep_set_long_size*(struct tep_handle pass:[*]_tep_, int _long_size_);
--

DESCRIPTION

The *tep_get_long_size()* function returns the size of a long integer on the machine,
where the trace is generated. The _tep_ argument is trace event parser context.

The *tep_set_long_size()* function sets the size of a long integer on the machine,
where the trace is generated. The _tep_ argument is trace event parser context.
The _long_size_ is the size of a long integer, in bytes.

RETURN VALUE

The *tep_get_long_size()* function returns the size of a long integer on the machine,
where the trace is generated, in
bytes.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
tep_set_long_size(tep, 4);
...
int long_size = tep_get_long_size(tep);
...
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
---
libtraceevent(3), *trace-cmd*(1)

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No license file was found, but licenses were detected in source scan.

libtraceevent(3)
==========

NAME
---
tep_print_event - Writes event information into a trace sequence.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

void *tep_print_event*(struct tep_handle pass:[*]_tep_, struct trace_seqpass:[*]_s_, struct tep_record pass:[*]_record_, const char pass:[*]_fmt_, _..._)
--

DESCRIPTION

The *tep_print_event()* function parses the event information of the given
record and writes it into the trace sequence _s_, according to the format
string _fmt_. The desired information is specified after the format string.
The _fmt_ is printf-like format string, following arguments are supported:
[verse]
--
 TEP_PRINT_PID, "%d" - PID of the event.

TEP_PRINT_CPU, "%d" - Event CPU.
TEP_PRINT_COMM, "%s" - Event command string.
TEP_PRINT_NAME, "%s" - Event name.
TEP_PRINT_LATENCY, "%s" - Latency of the event. It prints 4 or more
 fields -
interrupt state, scheduling state,
 current context, and preemption count.
 Field 1 is the interrupt enabled state:
  d : Interrupts are disabled
  . : Interrupts are enabled
  X : The architecture does not support this
      information
 Field 2 is the "need resched" state.
  N : The task is set to call the scheduler when
      possible, as another higher priority task
      may need to be scheduled in.
  . : The task is not set to call the scheduler.
 Field 3 is the context state.
  . : Normal context
  s : Soft interrupt context
  h : Hard interrupt context
  H : Hard interrupt context which triggered
      during soft interrupt context.
  z : NMI context
  Z : NMI context which triggered during hard
      interrupt context
 Field 4 is the preemption count.
  . : The preempt count is zero.
 On preemptible kernels (where the task can be scheduled
 out in arbitrary locations while in kernel context), the
 preempt count, when non zero,
will prevent the kernel
 from scheduling out the current task. The preempt count
 number is displayed when it is not zero.
 Depending on the kernel, it may show other fields
 (lock depth, or migration disabled, which are unique to
 specialized kernels).
TEP_PRINT_TIME, %d - event time stamp. A divisor and precision can be
 specified as part of this format string:
 "%precision.divisord". Example:
 "%3.1000d" - divide the time by 1000 and print the first
 3 digits before the dot. Thus, the time stamp
 "123456000" will be printed as "123.456"
TEP_PRINT_INFO, "%s" - event information.
TEP_PRINT_INFO_RAW, "%s" - event information, in raw format.

--
EXAMPLE

```
-------
[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct trace_seq seq;
trace_seq_init(&seq);
struct tep_handle *tep = tep_alloc();
...
void print_my_event(struct tep_record *record)
{
 trace_seq_reset(&seq);
 tep_print_event(tep, s, record, "%16s-%-5d [%03d] %s %6.1000d %s %s",
   TEP_PRINT_COMM,
 TEP_PRINT_PID, TEP_PRINT_CPU,
   TEP_PRINT_LATENCY, TEP_PRINT_TIME, TEP_PRINT_NAME,
   TEP_PRINT_INFO);
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*trace-seq.h*
 Header file to include in order to have access to trace sequences related APIs.
 Trace sequences are used to allow a function to call several other functions
 to create a string of data to use.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
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libtraceevent(3)
==========

NAME
---
tep_get_event, tep_get_first_event, tep_get_events_count - Access events.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_event pass:[*]*tep_get_event*(struct tep_handle pass:[*]_tep_, int _index_);
struct tep_event pass:[*]*tep_get_first_event*(struct tep_handle pass:[*]_tep_);
int *tep_get_events_count*(struct tep_handle pass:[*]_tep_);
--

DESCRIPTION

The *tep_get_event()* function returns a pointer to event at the given _index_.
The _tep_ argument is trace event parser context, the _index_ is the index of
the requested event.

The *tep_get_first_event()* function returns a pointer to the first event.
As events are stored in an array, this function returns the pointer to the
beginning of the array. The _tep_ argument is trace event parser context.

The *tep_get_events_count()* function returns the number of the events
in the array. The _tep_

argument is trace event parser context.

RETURN VALUE

The *tep_get_event()* returns a pointer to the event located at _index_.
NULL is returned in case of error, in case there are no events or _index_ is
out of range.

The *tep_get_first_event()* returns a pointer to the first event. NULL is
returned in case of error, or in case there are no events.

The *tep_get_events_count()* returns the number of the events. 0 is
returned in case of error, or in case there are no events.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
int i,count = tep_get_events_count(tep);
struct tep_event *event, *events = tep_get_first_event(tep);

if (events == NULL) {
 /* There are no events */
} else {
 for (i = 0; i < count; i++) {
  event = (events+i);
  /* process events[i] */
 }

 /* Get the last event */
 event = tep_get_event(tep, count-1);
}
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access
 to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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libtraceevent(3)
================

NAME
----
tep_parse_event, tep_parse_format - Parse the event format information

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum tep_errno *tep_parse_event*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);
enum tep_errno *tep_parse_format*(struct tep_handle pass:[*]_tep_, struct tep_event pass:[*]pass:[*]_eventp_, const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);
--

DESCRIPTION

The *tep_parse_event()* function parses the event format and creates an event
structure to quickly parse raw data for a given event. The _tep_ argument is
the trace event parser context. The created event structure is stored in the
tep context. The _buf_ argument is a buffer with _size_, where the event
format data is. The event format data can be taken from
tracefs/events/.../.../format files. The
sys argument is the system of
the event.

The *tep_parse_format()* function does the same as *tep_parse_event()*. The only
difference is in the extra _eventp_ argument, where the newly created event
structure is returned.

RETURN VALUE

Both *tep_parse_event()* and *tep_parse_format()* functions return 0 on success,
or TEP_ERRNO__... in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
char *buf;
int size;
struct tep_event *event = NULL;
buf = read_file("/sys/kernel/tracing/events/ftrace/print/format", &size);
if (tep_parse_event(tep, buf, size, "ftrace") != 0) {
/* Failed to parse the ftrace print format */
}

if (tep_parse_format(tep, &event, buf, size, "ftrace") != 0) {
/* Failed to parse the ftrace print format */
}
...
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.

-ltraceevent
 Linker switch to add when building a program that
 uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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libtraceevent(3)
================

NAME
----
tep_find_event,tep_find_event_by_name,tep_find_event_by_record, tep_record_is_event - Find events by given key.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_event pass:[*]*tep_find_event*(struct tep_handle pass:[*]_tep_, int _id_);

struct tep_event pass:[*]*tep_find_event_by_name*(struct tep_handle pass:[*]_tep_, const char pass:[*]_sys_, const char pass:[*]_name_);
struct tep_event pass:[*]*tep_find_event_by_record*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_record_);
bool *tep_record_is_event*(struct tep_record pass:[*]record, struct tep_event pass:[*]event);
--

DESCRIPTION

This set of functions can be used to search for an event, based on a given
criteria. All functions require a pointer to a _tep_, trace event parser
context.

The *tep_find_event()* function searches for an event by given event _id_. The
event ID is
assigned dynamically and can be viewed in event's format file,
"ID" field.

The *tep_find_event_by_name()* function searches for an event by given
event _name_, under the system _sys_. If the _sys_ is NULL (not specified),
the first event with _name_ is returned.

The *tep_find_event_by_record()* function searches for an event from a given
record.

The *tep_record_is_event()* function tests if the given _record_ is of the type
of the _event_. This is normally used to know if the _record_ being processed is
of an _event_ where further processing should be done.

RETURN VALUE

All these functions except *tep_record_is_event()* return a pointer to the found event, or NULL if there is no such event.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
struct tep_event *event;

event = tep_find_event(tep, 1857);
if (event == NULL) {
 /* There is no event with ID 1857 */
}

```
event = tep_find_event_by_name(tep, "kvm", "kvm_exit");
if
 (event == NULL) {
 /* There is no kvm_exit event, from kvm system */
}

void event_from_record(struct tep_record *record)
{
struct tep_event *event = tep_find_event_by_record(tep, record);
 if (event == NULL) {
  /* There is no event from given record */
 }
}
...
```
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
---
libtraceevent(3), *trace-cmd*(1)

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libtraceevent(3)
==========

NAME
----
tep_find_function,tep_find_function_address,tep_find_function_info - Find function name / start address.

SYNOPSIS

[verse]
--
#include <event-parse.h>

const char pass:[*]*tep_find_function*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_);
unsigned long long *tep_find_function_address*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_);
int *tep_find_function_info*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_, const char pass:[**]_name_,
    unsigned long long pass:[*]_start_, unsigned long pass:[*]_size_);
--

DESCRIPTION

These functions can be used to find function name and start address, by given
address. The given address does not have to be exact, it will select the function
that would contain it.

The *tep_find_function()* function returns the function name, which contains the
given address _addr_. The _tep_
 argument is the trace event parser context.

The *tep_find_function_address()* function returns the function start address,
by given address _addr_. The _addr_ does not have to be exact, it will select the
function that would contain it. The _tep_ argument is the trace event parser context.

The *tep_find_function_info()* function retrieves the _name_, starting address (_start_),
and the function text _size_ of the function at _address_, if it is found. Note,
if the _tep_ handle has a function resolver (used by perf), then _size_ is set to
zero.

RETURN VALUE

The *tep_find_function()* function returns the function name, or NULL in case it cannot be found.

The *tep_find_function_address()* function returns the function start address, or 0 in case it cannot be found.

The *tep_find_function_info()* function returns 1 if a function is found for the given address, or 0 if it is not.

EXAMPLE

```
-------
[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
void
 show_function_name(unsigned long long addr)
{
 const char *fname = tep_find_function(tep, addr);

 if (fname)
  printf("Found function %s at 0x%0llx\n", fname, addr);
 else
  printf("No function found at 0x%0llx\n", addr);
}

void show_function_start_addr(unsigned long long addr)
{
 const char *fname = tep_find_function(tep, addr);
 unsigned long long fstart;

 if (!fname) {
  printf("No function found at 0x%0llx\n", addr);
  return;
 }

 fstart = tep_find_function_address(tep, addr);
 printf("Function %s at 0x%llx starts at 0x%0llx\n",
        fname, addr, fstart);
}

void show_function_info(unsigned long long addr)
{
 const char *fname;
 unsigned long long fstart;
 unsigned long size;
```

```
 ret = tep_find_function_info(tep, addr, &fname, &fstart, &size);
 if (!ret) {
  printf("No function found at 0x%0lx\n", addr);
  return;
 }

 printf("Function %s at 0x%lx starts at 0x%0lx and is %ld in size\n",
        fname, addr, fstart, size);
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header
 file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
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*libtraceevent*(3), *trace-cmd*(1)

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--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
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--
REPORTING BUGS
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RESOURCES
---------
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

Found in path(s):
```

* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-func_find.txt
No license file was found, but licenses were detected in source scan.

libtraceevent(3)
==========

NAME
----
tep_filter_alloc, tep_filter_free, tep_filter_reset, tep_filter_make_string,
tep_filter_copy, tep_filter_compare, tep_filter_match, tep_event_filtered,
tep_filter_remove_event, tep_filter_strerror, tep_filter_add_filter_str -
Event filter related APIs.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_event_filter pass:[*]*tep_filter_alloc*(struct tep_handle pass:[*]_tep_);
void *tep_filter_free*(struct tep_event_filter pass:[*]_filter_);
void *tep_filter_reset*(struct tep_event_filter pass:[*]_filter_);
enum tep_errno *tep_filter_add_filter_str*(struct tep_event_filter pass:[*]_filter_, const char pass:[*]_filter_str_);
int *tep_event_filtered*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
int *tep_filter_remove_event*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
enum tep_errno *tep_filter_match*(struct tep_event_filter pass:[*]_filter_,
 struct tep_record pass:[*]_record_);
int *tep_filter_copy*(struct tep_event_filter pass:[*]_dest_, struct tep_event_filter pass:[*]_source_);
int *tep_filter_compare*(struct tep_event_filter pass:[*]_filter1_, struct tep_event_filter pass:[*]_filter2_);
char pass:[*]*tep_filter_make_string*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
int *tep_filter_strerror*(struct tep_event_filter pass:[*]_filter_, enum tep_errno _err_, char pass:[*]buf, size_t _buflen_);
--

DESCRIPTION

Filters can be attached to traced events. They can be used to filter out various
events when outputting them. Each event can be filtered based on its parameters,
described in the event's format file. This set of functions can be used to
create, delete, modify and attach event filters.

The *tep_filter_alloc()* function creates a new event filter. The _tep_ argument
is the trace event parser context.

The *tep_filter_free()* function frees an event filter and all resources that it
had

used.

The *tep_filter_reset()* function removes all rules from an event filter and resets it.

The *tep_filter_add_filter_str()* function adds a new rule to the _filter_. The _filter_str_ argument is the filter string, that contains the rule.

The *tep_event_filtered()* function checks if the event with _event_id_ has _filter_.

The *tep_filter_remove_event()* function removes a _filter_ for an event with _event_id_.

The *tep_filter_match()* function tests if a _record_ matches given _filter_.

The *tep_filter_copy()* function copies a _source_ filter into a _dest_ filter.

The *tep_filter_compare()* function compares two filers - _filter1_ and _filter2_.

The *tep_filter_make_string()* function constructs a string, displaying the _filter_ contents for given _event_id_.

The *tep_filter_strerror()* function copies the _filter_ error buffer into the given _buf_ with the size _buflen_. If the error buffer is empty, in the _buf_ is copied a string, describing the error _err_.

RETURN
VALUE

The *tep_filter_alloc()* function returns a pointer to the newly created event filter, or NULL in case of an error.

The *tep_filter_add_filter_str()* function returns 0 if the rule was successfully added or a negative error code. Use *tep_filter_strerror()* to see actual error message in case of an error.

The *tep_event_filtered()* function returns 1 if the filter is found for given event, or 0 otherwise.

The *tep_filter_remove_event()* function returns 1 if the vent was removed, or 0 if the event was not found.

The *tep_filter_match()* function returns _tep_errno_, according to the result:
[verse]
--
_pass:[TEP_ERRNO__FILTER_MATCH]_ - filter found for event, the record matches.
_pass:[TEP_ERRNO__FILTER_MISS]_ - filter found for event, the record does not match.

_pass:[TEP_ERRNO__FILTER_NOT_FOUND]_ - no filter found for record's event.
_pass:[TEP_ERRNO__NO_FILTER]_ - no rules in the filter.
--
or any other _tep_errno_, if an error occurred during the test.

The
tep_filter_copy() function returns 0 on success or -1 if not all rules
were copied.

The *tep_filter_compare()* function returns 1 if the two filters hold the same
content, or 0 if they do not.

The *tep_filter_make_string()* function returns a string, which must be freed
with free(), or NULL in case of an error.

The *tep_filter_strerror()* function returns 0 if message was filled
successfully, or -1 in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
char errstr[200];
int ret;

struct tep_event_filter *filter = tep_filter_alloc(tep);
struct tep_event_filter *filter1 = tep_filter_alloc(tep);
ret = tep_filter_add_filter_str(filter, "sched/sched_wakeup:target_cpu==1");
if(ret < 0) {
 tep_filter_strerror(filter, ret, errstr, sizeof(errstr));
 /* Failed to add a new rule to the filter, the error string is in errstr */
}
if (tep_filter_copy(filter1, filter) != 0) {
 /* Failed to copy filter in filter1 */
}
...
if
 (tep_filter_compare(filter, filter1) != 1) {
 /* Both filters are different */
}
...
void process_record(struct tep_handle *tep, struct tep_record *record)
{
 struct tep_event *event;

```
 char *fstring;

 event = tep_find_event_by_record(tep, record);

 if (tep_event_filtered(filter, event->id) == 1) {
  /* The event has filter */
  fstring = tep_filter_make_string(filter, event->id);
  if (fstring != NULL) {
   /* The filter for the event is in fstring */
   free(fstring);
  }
 }

 switch (tep_filter_match(filter, record)) {
 case TEP_ERRNO__FILTER_MATCH:
  /* The filter matches the record */
  break;
 case TEP_ERRNO__FILTER_MISS:
  /* The filter does not match the record */
  break;
 case TEP_ERRNO__FILTER_NOT_FOUND:
  /* No filter found for record's event */
  break;
 case TEP_ERRNO__NO_FILTER:
  /* There are no rules in the filter */
  break
 default:
  /* An error occurred during the test */
  break;
 }

 if (tep_filter_remove_event(filter, event->id) == 1) {
  /* The event was removed
 from the filter */
  }
 }

...
tep_filter_reset(filter);
...
tep_filter_free(filter);
tep_filter_free(filter1);
...
--

FILES
-----
[verse]
```

--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-filter.txt
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/*
* Copyright (C) 2009, 2010 Red Hat Inc, Steven Rostedt <srostedt@redhat.com>
*
*
* The parts for function graph printing was taken and modified from the
* Linux Kernel that were written by
*   - Copyright (C) 2009 Frederic Weisbecker,
* Frederic Weisbecker gave his permission to relicense the code to
* the Lesser General Public License.
*/

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* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/src/event-

parse.c
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libtraceevent(3)
==========

NAME
----
tep_event_common_fields, tep_event_fields - Get a list of fields for an event.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_format_field pass:[*]pass:[*]*tep_event_common_fields*(struct tep_event pass:[*]_event_);
struct tep_format_field pass:[*]pass:[*]*tep_event_fields*(struct tep_event pass:[*]_event_);
--

DESCRIPTION

The *tep_event_common_fields()* function returns an array of pointers to common
fields for the _event_. The array is allocated in the function and must be freed
by free(). The last element of the array is NULL.

The *tep_event_fields()* function returns an array of pointers to event specific
fields for the _event_. The array is allocated in the function and must be freed
by free(). The last element of the array is NULL.

RETURN VALUE

Both *tep_event_common_fields()* and *tep_event_fields()* functions return
an
 array of pointers to tep_format_field structures in case of success, or
NULL in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
int i;
struct tep_format_field **fields;
struct tep_event *event = tep_find_event_by_name(tep, "kvm", "kvm_exit");

```
if (event != NULL) {
 fields = tep_event_common_fields(event);
 if (fields != NULL) {
  i = 0;
  while (fields[i]) {
   /*
     walk through the list of the common fields
     of the kvm_exit event
   */
   i++;
  }
  free(fields);
 }
 fields = tep_event_fields(event);
 if (fields != NULL) {
  i = 0;
  while (fields[i]) {
   /*
     walk through the list of the event specific
     fields of the kvm_exit event
   */
   i++;
  }
  free(fields);
 }
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3),
 *trace-cmd*(1)

AUTHOR
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libtraceevent(3)
==========

NAME
---
tep_print_printk, tep_print_funcs, tep_set_test_filters, tep_plugin_print_options -
Print libtraceevent internal information.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

void *tep_print_printk*(struct tep_handle pass:[*]tep);
void *tep_print_funcs*(struct tep_handle pass:[*]tep);
void *tep_set_test_filters*(struct tep_handle pass:[*]tep, int test_filters);
void *tep_plugin_print_options*(struct trace_seq pass:[*]s);
--

DESCRIPTION

The *tep_print_printk()* function prints the printk string formats that were
stored for this tracing session. The _tep_ argument is trace event parser context.

The *tep_print_funcs()* function prints the stored function name to address mapping
for this tracing session. The _tep_ argument is trace event parser context.

The *tep_set_test_filters()* function sets a flag to test a filter string. If
 this
flag is set, when *tep_filter_add_filter_str()* API as called, it will print the filter
string instead of adding it. The _tep_ argument is trace event parser context.
The _test_filters_ argument is the test flag that will be set.

The *tep_plugin_print_options()* function writes a list of the registered plugin options
into _s_.

EXAMPLE

[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
 tep_print_printk(tep);
...
 tep_print_funcs(tep);
...
struct tep_event_filter *filter = tep_filter_alloc(tep);
 tep_set_test_filters(tep, 1);
 tep_filter_add_filter_str(filter, "sched/sched_wakeup:target_cpu==1");
 tep_set_test_filters(tep, 0);
 tep_filter_free(filter);
...
struct trace_seq seq;
trace_seq_init(&seq);

 tep_plugin_print_options(&s);
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses
 the library.
--

SEE ALSO

---
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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libtraceevent(3)
==========

NAME
---
trace_seq_init, trace_seq_destroy, trace_seq_reset, trace_seq_terminate,
trace_seq_putc, trace_seq_puts, trace_seq_printf, trace_seq_vprintf,
trace_seq_do_fprintf, trace_seq_do_printf -
Initialize / destroy a trace sequence.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

void *trace_seq_init*(struct trace_seq pass:[*]_s_);
void *trace_seq_destroy*(struct trace_seq pass:[*]_s_);
void *trace_seq_reset*(struct trace_seq pass:[*]_s_);
void *trace_seq_terminate*(struct trace_seq pass:[*]_s_);

int *trace_seq_putc*(struct trace_seq pass:[*]_s_, unsigned char _c_);
int *trace_seq_puts*(struct trace_seq pass:[*]_s_, const char pass:[*]_str_);
int *trace_seq_printf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, _..._);
int *trace_seq_vprintf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, va_list _args_);
int *trace_seq_do_printf*(struct
trace_seq pass:[*]_s_);
int *trace_seq_do_fprintf*(struct trace_seq pass:[*]_s_, FILE pass:[*]_fp_);
--

DESCRIPTION

Trace sequences are used to allow a function to call several other functions
to create a string of data to use.

The *trace_seq_init()* function initializes the trace sequence _s_.

The *trace_seq_destroy()* function destroys the trace sequence _s_ and frees
all its resources that it had used.

The *trace_seq_reset()* function re-initializes the trace sequence _s_. All
characters already written in _s_ will be deleted.

The *trace_seq_terminate()* function terminates the trace sequence _s_. It puts
the null character pass:['\0'] at the end of the buffer.

The *trace_seq_putc()* function puts a single character _c_ in the trace
sequence _s_.

The *trace_seq_puts()* function puts a NULL terminated string _str_ in the
trace sequence _s_.

The *trace_seq_printf()* function puts a formated string _fmt _with
variable arguments _..._ in the trace sequence
_s_.

The *trace_seq_vprintf()* function puts a formated string _fmt _with
list of arguments _args_ in the trace sequence _s_.

The *trace_seq_do_printf()* function prints the buffer of trace sequence _s_ to
the standard output stdout.

The *trace_seq_do_fprintf()* function prints the buffer of trace sequence _s_
to the given file _fp_.

RETURN VALUE

Both *trace_seq_putc()* and *trace_seq_puts()* functions return the number of
characters put in the trace sequence, or 0 in case of an error

Both *trace_seq_printf()* and *trace_seq_vprintf()* functions return 0 if the
trace oversizes the buffer's free space, the number of characters printed, or
a negative value in case of an error.

Both *trace_seq_do_printf()* and *trace_seq_do_fprintf()* functions return the
number of printed characters, or -1 in case of an error.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
#include <trace-seq.h>
...
struct trace_seq seq;
trace_seq_init(&seq);
...
void foo_seq_print(struct trace_seq
 *tseq, char *format, ...)
{
 va_list ap;
 va_start(ap, format);
 if (trace_seq_vprintf(tseq, format, ap) <= 0) {
  /* Failed to print in the trace sequence */
 }
 va_end(ap);
}

trace_seq_reset(&seq);

char *str = " MAN page example";
if (trace_seq_puts(&seq, str) != strlen(str)) {
 /* Failed to put str in the trace sequence */
}
if (trace_seq_putc(&seq, ':') != 1) {
 /* Failed to put ':' in the trace sequence */
}
if (trace_seq_printf(&seq, " trace sequence: %d", 1) <= 0) {
 /* Failed to print in the trace sequence */
}
foo_seq_print( &seq, "  %d\n", 2);

trace_seq_terminate(&seq);
...

if (trace_seq_do_printf(&seq) < 0 ) {
 /* Failed to print the sequence buffer to the standard output */
```

```
}
FILE *fp = fopen("trace.txt", "w");
if (trace_seq_do_fprintf(&seq, fp) < 0 ) [
 /* Failed to print the sequence buffer to the trace.txt file */
}

trace_seq_destroy(&seq);
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*trace-seq.h*
 Header
 file to include in order to have access to trace sequences related APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
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```

1.8.2/Documentation/libtraceevent-tseq.txt
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libtraceevent(3)
==========

NAME
----
tep_plugin_kvm_get_func, tep_plugin_kvm_put_func - Add function name for instruction pointer of kvm plugin

SYNOPSIS

[verse]
--
#include <event-parse.h>

const char pass:[*]*tep_plugin_kvm_get_func*(struct tep_event pass:[*]event,
	struct tep_record pass:[*]record,
	unsigned long long pass:[*]paddr);
void *tep_plugin_kvm_put_func*(const char pass:[*]func);
--

DESCRIPTION

The functions *tep_plugin_kvm_get_func()* and *tep_plugin_kvm_put_func()*
are not to be called by an application, but instead are to be defined by
an application.

Certain events (like kvm_exit and kvm_entry) have the instruction pointer
of where in the guest the context changed from guest to host. As the host
only knows the instruction pointer and does not have information about what
function in the guest that instruction pointer belongs to, it can only print
the address.

But
 the application may have more information about the guest, and know where
the guest was when the exit occurred, and also even know the function name
of that address.

The KVM plugin for libtraceevent is called on these events, and then calls
tep_plugin_kvm_get_func() to see if that function can resolve the instruction
pointer address to a real function name. If the return is non NULL, it will
print the function in the output for that event.

These functions are currently defined as weak functions within the plugin, as
to not require them to be defined elsewhere. For an application to override
the weak function, it will need to define the function in a file that gets
compiled with *-rdynamic*. That will tell the dynamic linker to examine that

object file and use function names to resolve weak functions in other shared objects (in this case the KVM plugin shared object).

If the application defines *tep_plugin_kvm_get_func()*, it must use the above prototype. The _event_ will
hold the KVM event that has the instruction pointer
field. The _record_ will be the instance of that event. The application's function does not need to use these parameters, but they may be useful for finding the function name for the address. The _paddr_ is a pointer to a 64 bit value (where only 32 bits may be used on 32 bit machines). This value is the instruction pointer to look up. If the application knows the start address of the function as well, it can set _paddr_ to that address, and the KVM plugin will also append a "+offset" to the function name where the offset is the original value in _paddr_ minus the value in _paddr_ when it is called. Finally, the application should return the function name as a nul terminated string if one is found.

If the returned string of *tep_plugin_kvm_get_func()* was allocated, the KVM plugin will call *tep_plugin_kvm_put_func()* when it is through with it, passing the value returned by *tep_plugin_kvm_get_func()* as _func_. This allows the application
to
free it if necessary.

RETURN VALUE

The *tep_plugin_kvm_get_func()* is not to be called by the application but instead is to be defined by the application. It should return a nul terminated string representing the function for the given instruction pointer passed to it by reference in _paddr_. It can then optionally update the _paddr_ to a value that holds the start of the function. The string returned may be freed by the *tep_plugin_kvm_put_func()* that the application should define to clean up the string.

The below example needs to be compiled with the *-rdynamic* flag so that the dynamic linker can resolve the *tep_plugin_kvm_get_func()* and *tep_plugin_kvm_put_func()* functions.

When run against a trace.dat file produced by *trace-cmd(1)* recording the kvm_exit and kvm_entry events on a guest, and then the guest's /proc/kallsyms file is passed as the second parameter, the output produced will look something like:

[source,c]
--
CPU 0/KVM-20407 83156.177626
[000] kvm_exit reason APIC_ACCESS rip 0xffffffffb0056ee2 exit native_apic_mem_write+0x2 info 10b0 0
CPU 0/KVM-20407 83156.177632 [000] kvm_entry vcpu 0 rip 0xffffffffb0056ee8 enter native_apic_mem_write+0x8
--

But without those callbacks, it would look like:

[source,c]
--
CPU 0/KVM-20407 83156.177626 [000] kvm_exit   reason APIC_ACCESS rip 0xffffffffb0056ee2 info 10b0 0
CPU 0/KVM-20407 83156.177632 [000] kvm_entry   vcpu 0 rip 0xffffffffb0056ee8
--

EXAMPLE

[source,c]
--
#include <stdio.h>
#include <stdlib.h>
#include <event-parse.h>
#include <trace-cmd.h>
#include <sys/stat.h>

static struct tep_handle *tep;

const char *tep_plugin_kvm_get_func(struct tep_event *event, struct tep_record *record,
       unsigned long long *paddr)
{
 const char *func;
 char *event_func;
 char *ename;

 func = tep_find_function(tep, *paddr);
 if (!func)
  return NULL;

 if (strcmp(event->name, "kvm_exit") == 0)
  ename = "exit";
 else
  ename = "enter";

 /*
  * Normally, passing
 back func directly is sufficient and then
  * tep_plugin_kvm_put_func() would not be required. But this example
  * is showing how to handle allocation of the returned string.
  */
 event_func = malloc(strlen(ename) + strlen(func) + 2);
 if (!event_func)
  return NULL;
 sprintf(event_func, "%s %s", ename, func);

 *paddr = tep_find_function_address(tep, *paddr);

```
 return event_func;
}

void tep_plugin_kvm_put_func(const char *func)
{
 char *f = (char *)func;

 free(f);
}

static int show_event(struct tracecmd_input *handle, struct tep_event *event,
       struct tep_record *record, int cpu, void *data)
{
 static struct trace_seq seq;
 tep = data;

 if (!seq.buffer)
  trace_seq_init(&seq);

 trace_seq_reset(&seq);
 tep_print_event(tracecmd_get_tep(handle), &seq, record,
   "%s-%d\t%6.1000d [%03d] %s\t%s\n",
   TEP_PRINT_COMM, TEP_PRINT_PID,
   TEP_PRINT_TIME, TEP_PRINT_CPU,
   TEP_PRINT_NAME, TEP_PRINT_INFO);
 trace_seq_terminate(&seq);
 trace_seq_do_printf(&seq);
 return 0;
}

int main(int
 argc, char **argv)
{
 struct tracecmd_input *handle;
 struct tep_handle *guest_tep;
 struct stat st;
 FILE *fp;
 char *buf;

 if (argc < 3) {
  printf("usage: trace.dat guest_kallsyms_file\n");
  exit(-1);
 }

 handle = tracecmd_open(argv[1], 0);
 if (!handle) {
  perror(argv[1]);
  exit(-1);
```

```
}

/* Just for kallsyms parsing */
guest_tep = tep_alloc();
if (!guest_tep)
 exit(-1);

if (stat(argv[2], &st) < 0) {
 perror(argv[2]);
 exit(-1);
}

buf = malloc(st.st_size + 1);
if (!buf)
 exit(-1);

fp = fopen(argv[2], "r");
if (!fp) {
 perror(argv[2]);
 exit(-1);
}

if (fread(buf, st.st_size, 1, fp) < 0) {
 perror(argv[2]);
 exit(-1);
}

buf[st.st_size] = '\0';

if (tep_parse_kallsyms(guest_tep, buf) < 0) {
 printf("Failed to parse %s\n", argv[2]);
 exit(-1);
}
free(buf);

tracecmd_follow_event(handle, "kvm", "kvm_exit", show_event, guest_tep);
tracecmd_follow_event(handle, "kvm", "kvm_entry", show_event, guest_tep);

tracecmd_iterate_events(handle, NULL, 0,
NULL, NULL);

tep_free(guest_tep);
tracecmd_close(handle);
}
--

FILES
-----
```

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

REPORTING BUGS

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RESOURCES
----
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* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-kvm-plugin.txt
No license file was found, but licenses were detected in source scan.

libtraceevent(3)
================

NAME
----
tep_is_bigendian, tep_is_local_bigendian, tep_set_local_bigendian - Get / set
the endianness of the local machine.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_endian* {
 TEP_LITTLE_ENDIAN = 0,
 TEP_BIG_ENDIAN
};

int *tep_is_bigendian*(void);
bool *tep_is_local_bigendian*(struct tep_handle pass:[*]_tep_);
void *tep_set_local_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);
--

DESCRIPTION

The *tep_is_bigendian()* gets the endianness of the machine, executing
the function.

The *tep_is_local_bigendian()* function gets the endianness of the local
machine, saved in the _tep_ handler. The _tep_ argument is the trace event
parser context. This API is a bit faster than *tep_is_bigendian()*, as it
returns cached endianness of the local machine instead of checking it each time.

The *tep_set_local_bigendian()* function sets
 the endianness of the local
machine in the _tep_ handler. The _tep_ argument is trace event parser context.
The _endian_ argument is the endianness:
[verse]
--
 _TEP_LITTLE_ENDIAN_ - the machine is little endian,
 _TEP_BIG_ENDIAN_ - the machine is big endian.
--

RETURN VALUE

The *tep_is_bigendian()* function returns non zero if the endianness of the
machine, executing the code, is big endian and zero otherwise.

The *tep_is_local_bigendian()* function returns true, if the endianness of the
local machine, saved in the _tep_ handler, is big endian, or false otherwise.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
 if (tep_is_bigendian())
  tep_set_local_bigendian(tep, TEP_BIG_ENDIAN);
 else
  tep_set_local_bigendian(tep, TEP_LITTLE_ENDIAN);
...
 if (tep_is_local_bigendian(tep))

```
 printf("This machine you are running on is bigendian\n");
else
 printf("This machine you are running on is little endian\n");
```

--

FILES

[verse]
--
event-parse.h
 Header
 file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
---
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

LICENSE
---
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RESOURCES
---
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

Found in path(s):
* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-host_endian.txt
No license file was found, but licenses were detected in source scan.

libtraceevent(3)
==========

NAME
----
tep_get_header_page_size, tep_get_header_timestamp_size, tep_is_old_format -
Get the data stored in the header page, in kernel context.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_get_header_page_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_header_timestamp_size*(struct tep_handle pass:[*]_tep_);
bool *tep_is_old_format*(struct tep_handle pass:[*]_tep_);
--
DESCRIPTION

These functions retrieve information from kernel context, stored in tracefs
events/header_page. Old kernels do not have header page info, so default values
from user space context are used.

The *tep_get_header_page_size()* function returns the size of a long integer,
in kernel context. The _tep_ argument is trace event parser context.
This information is retrieved from tracefs events/header_page, "commit" field.

The *tep_get_header_timestamp_size()* function returns
 the size of timestamps,
in kernel context. The _tep_ argument is trace event parser context. This
information is retrieved from tracefs events/header_page, "timestamp" field.

The *tep_is_old_format()* function returns true if the kernel predates
the addition of events/header_page, otherwise it returns false.

RETURN VALUE

The *tep_get_header_page_size()* function returns the size of a long integer,
in bytes.

The *tep_get_header_timestamp_size()* function returns the size of timestamps,
in bytes.

The *tep_is_old_format()* function returns true, if an old kernel is used to
generate the tracing data, which has no event/header_page. If the kernel is new,
or _tep_ is NULL, false is returned.

EXAMPLE

[source,c]

--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
 int longsize;
 int timesize;
 bool old;

 longsize = tep_get_header_page_size(tep);
 timesize = tep_get_header_timestamp_size(tep);
 old = tep_is_old_format(tep);

 printf ("%s kernel
 is used to generate the tracing data.\n",
  old?"Old":"New");
 printf("The size of a long integer is %d bytes.\n", longsize);
 printf("The timestamps size is %d bytes.\n", timesize);
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS

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LICENSE
----

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RESOURCES
---
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-header_page.txt
No license file was found, but licenses were detected in source scan.

libtraceevent(3)
==========

NAME
---
kbuffer_timestamp, kbuffer_subbuf_timestamp -
Functions that read various data of a kbuffer descriptor

SYNOPSIS

[verse]
--
#include <kbuffer.h>

unsigned long long *kbuffer_timestamp*(struct kbuffer pass:[*]_kbuf_);
unsigned long long *kbuffer_subbuf_timestamp*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuf_);
--

DESCRIPTION

The function *kbuffer_timestamp()* returns the timestamp of the current event of _kbuf_.

The function *kbuffer_subbuf_timestamp()* returns the timestamp for the sub-buffer
that was loaded in _kbuf_. This usually is (but not guaranteed to be) the timestamp
of the first event on the sub-buffer.

The function *kbuffer_start_of_data()* returns the offset of where the delta

RETURN VALUE
---
kbuffer_read_event() returns the event that the _kbuf_ descriptor is currently at,
or NULL if the last event was passed (by *kbuffer_next_event()*).

kbuffer_next_event()
 returns the next event after the current event or NULL if there
are no more events.

kbuffer_read_at_offset() returns the event at a given _offset_ from the start of
the sub-buffer stored in _kbuf_, or NULL if there exists no event. Note, _offset_
only needs to be an offset that lands on the record, or is at the start of it. It does
not need to be exactly at the beginning of the record.

kbuffer_missed_events() returns 0 if there were no missed events before loaded sub-buffer.
Returns -1 if there were an unknown number of missed events, or if the number of missed events
is known, that number will be returned.

kbuffer_event_size() returns the size of the data payload of the current event of _kbuf_.

kbuffer_curr_size() returns the size of the entire record of the current event of _kbuf_.
This includes the size of the meta data for that record.

kbuf_curr_offset() returns the offset of the current record from the beginning of the
kbuf
sub-buffer.

kbuf_curr_index() returns the index of the current record from the beginning of the _kbuf_
data section.

EXAMPLE

[source,c]
--
```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/stat.h>

#include <kbuffer.h>

int main (int argc, char **argv)
{
 unsigned long long ts;
 struct kbuffer *kbuf;
 struct stat st;
 char *buf;
 void *event;
 int save_offset = -1;
 int record_size;
 int offset;
 int index;
 int size;
 int ret;
 int fd;
 int i = 0;
```

```
if (argc < 2) {
 printf("usage: %s raw-subbuffer-page\n", argv[0]);
 printf(" Try: dd count=1 bs=4096 if=/sys/kernel/tracing/per_cpu/cpu0/trace_pipe_raw of=/tmp/file\n");
 exit(0);
}

if (stat(argv[1], &st) < 0) {
 perror("stat");
 exit(-1);
}

buf = malloc(st.st_size);
if (!buf) {
 perror("Allocating buffer");
 exit(-1);
}

fd = open(argv[1], O_RDONLY);
if (fd < 0) {
 perror(argv[1]);
 exit(-1);
}

ret = read(fd, buf, st.st_size);
if (ret < 0) {
 perror("Reading
buffer");
 exit(-1);
}
close(fd);

kbuf = kbuffer_alloc(KBUFFER_ENDIAN_SAME_AS_HOST,
      KBUFFER_LSIZE_SAME_AS_HOST);
if (!kbuf) {
 perror("Creating kbuffer");
 exit(-1);
}
ret = kbuffer_load_subbuffer(kbuf, buf);
if (ret < 0) {
 perror("Loading sub bufer");
 exit(-1);
}

if (kbuffer_subbuffer_size(kbuf) > st.st_size) {
 fprintf(stderr, "kbuffer is bigger than raw size %d > %ld\n",
  kbuffer_subbuffer_size(kbuf), st.st_size);
 exit(-1);
```

```
}

ret = kbuffer_missed_events(kbuf);
if (ret) {
 if (ret > 0)
  printf("Missed %d events before this buffer\n", ret);
 else
  printf("Missed unknown number of events before this buffer\n");
}
do {
 event = kbuffer_read_event(kbuf, &ts);
 if (event) {
  record_size = kbuffer_curr_size(kbuf);
  offset = kbuffer_curr_offset(kbuf);
  index = kbuffer_curr_index(kbuf);
  size = kbuffer_event_size(kbuf);

  if (i == 20)
   save_offset = offset;
  printf(" event %3d ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n",

      i++, ts, record_size, size, index, offset);
  event = kbuffer_next_event(kbuf, NULL);
 }
} while (event);

if (!event)
 printf("Finished sub buffer\n");

if (save_offset > 0) {
 event = kbuffer_read_at_offset(kbuf, save_offset, &ts);
 if (!event) {
  fprintf(stderr, "Funny, can't find event 20 at offset %d\n", save_offset);
  exit(-1);
 }
 record_size = kbuffer_curr_size(kbuf);
 offset = kbuffer_curr_offset(kbuf);
 index = kbuffer_curr_index(kbuf);
 size = kbuffer_event_size(kbuf);

 printf("\n saved event 20 ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n\n",
        ts, record_size, size, index, offset);
}
kbuffer_free(kbuf);

 return 0;
}
--
```

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>,
 author of *libtraceevent*.
--
REPORTING BUGS

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* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-kbuffer-timestamp.txt
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libtraceevent(3)
================

NAME
----
tep_get_page_size, tep_set_page_size, tep_get_sub_buffer_data_size, tep_get_sub_buffer_size - Get / set the size of a memory page on
the machine, where the trace is generated

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_get_page_size*(struct tep_handle pass:[*]_tep_);
void *tep_set_page_size*(struct tep_handle pass:[*]_tep_, int _page_size_);
int *tep_get_sub_buffer_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_sub_buffer_data_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_sub_buffer_commit_offset*(struct tep_handle pass:[*]_tep_);
--

DESCRIPTION

The *tep_get_page_size()* function returns the size of a memory page on
the machine, where the trace is generated. The _tep_ argument is trace
event parser context.

The *tep_set_page_size()* function stores in the _tep_ context the size of a
memory page on the machine, where the trace
is generated.
The _tep_ argument is trace event parser context.
The _page_size_ argument is the size of a memory page, in bytes.

The *tep_get_sub_buffer_size()* returns the size of each "sub buffer" of the
ring buffer. The Linux kernel ring buffer is broken up into sections called
sub buffers. This returns the size of those buffers.

The *tep_get_sub_buffer_data_size()* returns the size of just the data portion
of the sub buffers.

The *tep_get_sub_buffer_commit_offset()* returns the offset on the sub buffer
that holds the committed portion of data. This number contains the index from
the data portion of the sub buffer that is the end of the last element on the
sub buffer.

RETURN VALUE

The *tep_get_page_size()* function returns size of the memory page, in bytes.

The *tep_get_sub_buffer_size()* function returns the number of bytes each sub
buffer is made up of.

The *tep_get_sub_buffer_commit_offset()* function returns the location on the
sub buffer that contains the
index of the last element.

EXAMPLE

```
-------
[source,c]
--
#include <unistd.h>
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
 int page_size = getpagesize();

 tep_set_page_size(tep, page_size);

 printf("The page size for this machine is %d\n", tep_get_page_size(tep));

--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--
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--------------
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RESOURCES
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```

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* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-page_size.txt
No license file was found, but licenses were detected in source scan.

libtraceevent(3)
==========

NAME
----
tep_is_file_bigendian, tep_set_file_bigendian - Get / set the endianness of the
raw data being accessed by the tep handler.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_endian* {
 TEP_LITTLE_ENDIAN = 0,
 TEP_BIG_ENDIAN
};

bool *tep_is_file_bigendian*(struct tep_handle pass:[*]_tep_);
void *tep_set_file_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);

--
DESCRIPTION

The *tep_is_file_bigendian()* function gets the endianness of the raw data,
being accessed by the tep handler. The _tep_ argument is trace event parser
context.

The *tep_set_file_bigendian()* function sets the endianness of raw data being
accessed by the tep handler. The _tep_ argument is trace event parser context.
[verse]
--
The _endian_ argument is the endianness:
 _TEP_LITTLE_ENDIAN_ - the raw data is in little endian format,
 _TEP_BIG_ENDIAN_ - the
 raw data is in big endian format.
--
RETURN VALUE

The *tep_is_file_bigendian()* function returns true if the data is in bigendian
format, false otherwise.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
 tep_set_file_bigendian(tep, TEP_LITTLE_ENDIAN);
...
 if (tep_is_file_bigendian(tep)) {
  /* The raw data is in big endian */
 } else {
  /* The raw data is in little endian */
 }
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
---
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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libtraceevent(3)
==========

NAME
---
tep_get_any_field_val, tep_get_common_field_val, tep_get_field_val,
tep_get_field_raw - Get value of a field.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

int *tep_get_any_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_get_common_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_get_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
void pass:[*]*tep_get_field_raw*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int pass:[*]_len_, int _err_);
--

DESCRIPTION

These functions can be used to find a field and retrieve its value.

The *tep_get_any_field_val()* function searches in the _record_ for a field with _name_, part of the _event_. If the field is found, its value is stored in _val_. If there is an error and _err_ is not zero, then an error string is written into _s_.

The *tep_get_common_field_val()* function does the same as *tep_get_any_field_val()*, but searches only in the common fields. This works for any event as all events include the common fields.

The *tep_get_field_val()* function does the same as *tep_get_any_field_val()*,

but searches only in the event specific fields.

The *tep_get_field_raw()* function searches in the _record_ for a field with _name_, part of the _event_. If the field is found, a pointer to where the field exists in the record's raw data is returned. The size of the data is stored in _len_. If there is an error and _err_ is not zero, then an error string is written into _s_.

RETURN VALUE

The *tep_get_any_field_val()*, *tep_get_common_field_val()* and *tep_get_field_val()* functions return 0 on success, or -1 in case of an error.

The *tep_get_field_raw()* function returns a pointer to field's raw data, and places the length of this data in _len_. In case of an error NULL is returned.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
struct tep_event *event = tep_find_event_by_name(tep, "kvm", "kvm_exit");
...
void process_record(struct tep_record *record)
{
 int len;
 char *comm;
 struct tep_event *event;
 unsigned long long val;

 event = tep_find_event_by_record(tep, record);
 if (event != NULL) {
  if (tep_get_common_field_val(NULL, event, "common_type",
        record, &val, 0) == 0) {
   /* Got the value of common type field */
  }
  if (tep_get_field_val(NULL, event,
 "pid", record, &val, 0) == 0) {
   /* Got the value of pid specific field */
  }
  comm = tep_get_field_raw(NULL, event, "comm", record, &len, 0);
  if (comm != NULL) {
   /* Got a pointer to the comm event specific field */
```

```
  }
 }
}
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*trace-seq.h*
 Header file to include in order to have access to trace sequences
 related APIs. Trace sequences are used to allow a function to call
 several other functions to create a string of data to use.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--
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--------------
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-------
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---------
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libtraceevent(3)
==========

NAME
----
tep_read_number_field - Reads a number from raw data.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_read_number_field*(struct tep_format_field pass:[*]_field_, const void pass:[*]_data_, unsigned long long pass:[*]_value_);
--

DESCRIPTION

The *tep_read_number_field()* function reads the value of the _field_ from the raw _data_ and stores it in the _value_. The function sets the _value_ according to the endianness of the raw data and the current machine and stores it in _value_.

RETURN VALUE

The *tep_read_number_field()* function retunrs 0 in case of success, or -1 in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
struct tep_event *event = tep_find_event_by_name(tep, "timer", "hrtimer_start");
...
void process_record(struct tep_record *record)
{
 unsigned
 long long pid;
 struct tep_format_field *field_pid = tep_find_common_field(event, "common_pid");

 if (tep_read_number_field(field_pid, record->data, &pid) != 0) {
  /* Failed to get "common_pid" value */
 }

}
...
--
FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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libtraceevent(3)
================

NAME
----
tep_set_function_resolver, tep_reset_function_resolver, tep_register_function, tep_register_print_string, tep_get_function_count - function related tep APIs

SYNOPSIS

[verse]
--
#include <event-parse.h>

typedef char pass:[*](*tep_func_resolver_t*)(void pass:[*]_priv_, unsigned long long pass:[*]_addrp_, char pass:[**]_modp_);
int *tep_set_function_resolver*(struct tep_handle pass:[*]_tep_, tep_func_resolver_t pass:[*]_func_, void pass:[*]_priv_);
void *tep_reset_function_resolver*(struct tep_handle pass:[*]_tep_);
int *tep_register_function*(struct tep_handle pass:[*]_tep_, char pass:[*]_name_, unsigned long long _addr_, char pass:[*]_mod_);
int *tep_register_print_string*(struct tep_handle pass:[*]_tep_, const char pass:[*]_fmt_, unsigned long long _addr_);
int *tep_get_function_count*(struct tep_handle *_tep_)
--

DESCRIPTION

Some tools may have already
 a way to resolve the kernel functions. These APIs
allow them to keep using it instead of duplicating all the entries inside.

The _tep_func_resolver_t_ type is the prototype of the alternative kernel
functions resolver. This function receives a pointer to its custom context
(set with the *tep_set_function_resolver()* call) and the address of a kernel
function, which has to be resolved. In case of success, it should return
the name of the function and its module (if any) in _modp_.

The *tep_set_function_resolver()* function registers _func_ as an alternative
kernel functions resolver. The _tep_ argument is trace event parser context.
The _priv_ argument is a custom context of the _func_ function. The function
resolver is used by the APIs *tep_find_function*(3),
tep_find_function_address(3), and *tep_print_func_field()* to resolve
a function address to a function name.

The *tep_reset_function_resolver()* function resets the kernel functions
resolver to the default function.
 The _tep_ argument is trace event parser
context.

These APIs can be used to find function name and start address, by given
address. The given address does not have to be exact, it will select
the function that would contain it.

The *tep_register_function()* function registers a function name mapped to an address and (optional) module. This mapping is used in case the function tracer or events have "%pS" parameter in its format string. It is common to pass in the kallsyms function names with their corresponding addresses with this function. The _tep_ argument is the trace event parser context. The _name_ is the name of the function, the string is copied internally. The _addr_ is the start address of the function. The _mod_ is the kernel module the function may be in (NULL for none).

The *tep_register_print_string()* function registers a string by the address it was stored in the kernel. Some strings internal to the kernel with static address are passed to certain events. The "%s" in
the event's format field
which has an address needs to know what string would be at that address. The tep_register_print_string() supplies the parsing with the mapping between kernel addresses and those strings. The _tep_ argument is the trace event parser context. The _fmt_ is the string to register, it is copied internally.
The _addr_ is the address the string was located at.

tep_get_function_count() returns the number of registered functions in a tep handler.

RETURN VALUE

The *tep_set_function_resolver()* function returns 0 in case of success, or -1 in case of an error.

The *tep_register_function()* function returns 0 in case of success. In case of an error -1 is returned, and errno is set to the appropriate error number.

The *tep_register_print_string()* function returns 0 in case of success. In case of an error -1 is returned, and errno is set to the appropriate error number.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
...
struct tep_handle *tep =
 tep_alloc();
...
char *my_resolve_kernel_addr(void *context,
        unsigned long long *addrp, char **modp)
{
 struct db *function_database = context;
 struct symbol *sym = sql_lookup(function_database, *addrp);

 if (!sym)
```

```
 return NULL;

 *modp = sym->module_name;
 return sym->name;
}

void show_function( unsigned long long addr)
{
 unsigned long long fstart;
 const char *fname;

 if (tep_set_function_resolver(tep, my_resolve_kernel_addr,
         function_database) != 0) {
  /* failed to register my_resolve_kernel_addr */
 }

 /* These APIs use my_resolve_kernel_addr() to resolve the addr */
 fname = tep_find_function(tep, addr);
 fstart = tep_find_function_address(tep, addr);

 /*
    addr is in function named fname, starting at fstart address,
    at offset (addr - fstart)
 */

 tep_reset_function_resolver(tep);

}
...
 if (tep_register_function(tep, "kvm_exit",
    (unsigned long long) 0x12345678, "kvm") != 0) {
  /* Failed to register kvm_exit address mapping */
 }
...
 if (tep_register_print_string(tep,
 "print string",
    (unsigned long long) 0x87654321, NULL) != 0) {
  /* Failed to register "print string" address mapping */
 }
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
```

-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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libtraceevent(3)
==========

NAME
----
libtraceevent - Linux kernel trace event library

SYNOPSIS

[verse]
--
#include <event-parse.h>

Management of tep handler data structure and access of its members:
 struct tep_handle pass:[*]*tep_alloc*(void);
 void *tep_free*(struct tep_handle pass:[*]_tep_);
 void *tep_ref*(struct tep_handle pass:[*]_tep_);
 void *tep_unref*(struct tep_handle pass:[*]_tep_);
 int *tep_get_ref*(struct tep_handle pass:[*]_tep_);
 void *tep_set_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
 void *tep_clear_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
 bool *tep_test_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flags_);
 int *tep_get_cpus*(struct tep_handle pass:[*]_tep_);
 void *tep_set_cpus*(struct tep_handle pass:[*]_tep_, int _cpus_);
 int *tep_get_long_size*(strucqt tep_handle pass:[*]_tep_);
 void *tep_set_long_size*(struct tep_handle
 pass:[*]_tep_, int _long_size_);
 int *tep_get_page_size*(struct tep_handle pass:[*]_tep_);
 void *tep_set_page_size*(struct tep_handle pass:[*]_tep_, int _page_size_);
 int *tep_get_sub_buffer_size*(struct tep_handle pass:[*]_tep_);
 int *tep_get_sub_buffer_data_size*(struct tep_handle pass:[*]_tep_);
 int *tep_get_sub_buffer_commit_offset*(struct tep_handle pass:[*]_tep_);
 int *tep_get_header_page_size*(struct tep_handle pass:[*]_tep_);
 int *tep_get_header_timestamp_size*(struct tep_handle pass:[*]_tep_);
 bool *tep_is_old_format*(struct tep_handle pass:[*]_tep_);
 int *tep_strerror*(struct tep_handle pass:[*]_tep_, enum tep_errno _errnum_, char pass:[*]_buf_, size_t _buflen_);
 struct kbuffer pass:[*]*tep_kbuffer*(struct tep_handle pass:[*]_tep_);

Register / unregister APIs:
 int *tep_register_function*(struct tep_handle pass:[*]_tep_, char pass:[*]_name_, unsigned long long _addr_, char pass:[*]_mod_);
 int *tep_register_event_handler*(struct tep_handle pass:[*]_tep_, int _id_,
 const char pass:[*]_sys_name_, const char pass:[*]_event_name_, tep_event_handler_func _func_, void pass:[*]_context_);
 int *tep_unregister_event_handler*(struct tep_handle pass:[*]tep, int id, const char pass:[*]sys_name, const char pass:[*]event_name, tep_event_handler_func func, void pass:[*]_context_);
 int *tep_register_print_string*(struct tep_handle pass:[*]_tep_, const char pass:[*]_fmt_, unsigned long long _addr_);
 int *tep_register_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, enum tep_func_arg_type _ret_type_, char pass:[*]_name_, _..._);
 int *tep_unregister_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, char pass:[*]_name_);
 int *tep_get_function_count*(struct tep_handle *_tep_);

Trace printk parsing:
 void *tep_print_printk*(struct tep_handle pass:[*]tep);

```
 void *tep_print_funcs*(struct tep_handle pass:[*]tep);
 void *tep_set_test_filters*(struct tep_handle pass:[*]tep, int test_filters);
 void *tep_plugin_print_options*(struct
 trace_seq pass:[*]s);
 int *tep_plugin_add_option*(const char pass:[*]_name_, const char pass:[*]_val_);

Meta data parsing:
 int *tep_parse_saved_cmdlines*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
 int *tep_parse_printk_formats*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
 int *tep_parse_kallsyms*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);

Plugins management:
 struct tep_plugin_list pass:[*]*tep_load_plugins*(struct tep_handle pass:[*]_tep_);
 void *tep_unload_plugins*(struct tep_plugin_list pass:[*]_plugin_list_, struct tep_handle pass:[*]_tep_);
 char pass:[*]pass:[*]*tep_plugin_list_options*(void);
 void *tep_plugin_free_options_list*(char pass:[*]pass:[*]_list_);
 int *tep_plugin_add_options*(const char pass:[*]_name_, struct tep_plugin_option pass:[*]_options_);
 void *tep_plugin_remove_options*(struct tep_plugin_option pass:[*]_options_);
 void *tep_print_plugins*(struct trace_seq pass:[*]_s_, const char pass:[*]_prefix_,
 const char pass:[*]_suffix_, const struct tep_plugin_list pass:[*]_list_);
 void *tep_load_plugins_hook*(struct tep_handle pass:[*]_tep_, const char pass:[*]_suffix_,
      void (pass:[*]_load_plugin_)(struct tep_handle pass:[*]tep,
           const char pass:[*]path,
           const char pass:[*]name,
           void pass:[*]data),
      void pass:[*]_data_);
 int *tep_add_plugin_path*(struct tep_handle pass:[*]tep, char pass:[*]path,
     enum tep_plugin_load_priority prio);

Event related APIs:
 struct tep_event pass:[*]*tep_get_event*(struct tep_handle pass:[*]_tep_, int _index_);
 struct tep_event pass:[*]*tep_get_first_event*(struct tep_handle pass:[*]_tep_);
 int *tep_get_events_count*(struct tep_handle pass:[*]_tep_);
 struct tep_event pass:[*]pass:[*]*tep_list_events*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type
_sort_type_);
 struct tep_event pass:[*]pass:[*]*tep_list_events_copy*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type
_sort_type_);
 void
 *tep_print_event*(struct tep_handle pass:[*]_tep_, struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_,
const char pass:[*]_fmt_, _..._);

Event finding:
 struct tep_event pass:[*]*tep_find_event*(struct tep_handle pass:[*]_tep_, int _id_);
 struct tep_event pass:[*]*tep_find_event_by_name*(struct tep_handle pass:[*]_tep_, const char pass:[*]_sys_, const
char pass:[*]_name_);
 struct tep_event pass:[*]*tep_find_event_by_record*(struct tep_handle pass:[*]_tep_, struct tep_record
pass:[*]_record_);
 bool *tep_record_is_event*(struct tep_record pass:[*]record, struct tep_event pass:[*]event);
```

Parsing of event files:
int *tep_parse_header_page*(struct tep_handle pass:[*]_tep_, char pass:[*]_buf_, unsigned long _size_, int _long_size_);
enum tep_errno *tep_parse_event*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);
enum tep_errno *tep_parse_format*(struct tep_handle pass:[*]_tep_, struct tep_event pass:[*]pass:[*]_eventp_,
const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);

APIs related to fields from event's format files:
struct tep_format_field pass:[*]pass:[*]*tep_event_common_fields*(struct tep_event pass:[*]_event_);
struct tep_format_field pass:[*]pass:[*]*tep_event_fields*(struct tep_event pass:[*]_event_);
void pass:[*]*tep_get_field_raw*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int pass:[*]_len_, int _err_);
int *tep_get_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_get_common_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_get_any_field_val*(struct trace_seq pass:[*]_s_, struct
tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_read_number_field*(struct tep_format_field pass:[*]_field_, const void pass:[*]_data_, unsigned long long pass:[*]_value_);

Event fields printing:
void *tep_print_field_content*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int size, struct tep_format_field pass:[*]_field_);
void *tep_print_fields*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int _size_, struct tep_event pass:[*]_event_);
int *tep_print_num_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int _err_);
int *tep_print_func_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int _err_);
void *tep_record_print_fields*(struct trace_seq pass:[*]_s_,
struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event_);
void *tep_record_print_selected_fields*(struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event_, int _select_mask_);

Event fields finding:
struct tep_format_field pass:[*]*tep_find_common_field*(struct tep_event pass:[*]_event_, const char pass:[*]_name_);
struct tep_format_field pass:[*]*tep_find_field*(struct tep_event_ormat pass:[*]_event_, const char pass:[*]_name_);
struct tep_format_field pass:[*]*tep_find_any_field*(struct tep_event pass:[*]_event_, const char pass:[*]_name_);

Functions resolver:
int *tep_set_function_resolver*(struct tep_handle pass:[*]_tep_, tep_func_resolver_t pass:[*]_func_, void pass:[*]_priv_);

void *tep_reset_function_resolver*(struct tep_handle pass:[*]_tep_);
const char pass:[*]*tep_find_function*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_);
unsigned long long *tep_find_function_address*(struct tep_handle pass:[*]_tep_,
unsigned long long _addr_);
int *tep_find_function_info*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_, const char pass:[**]_name_,
unsigned long long pass:[*]_start_, unsigned long pass:[*]_size_);

Filter management:
struct tep_event_filter pass:[*]*tep_filter_alloc*(struct tep_handle pass:[*]_tep_);
enum tep_errno *tep_filter_add_filter_str*(struct tep_event_filter pass:[*]_filter_, const char pass:[*]_filter_str_);
enum tep_errno *tep_filter_match*(struct tep_event_filter pass:[*]_filter_, struct tep_record pass:[*]_record_);
int *tep_filter_strerror*(struct tep_event_filter pass:[*]_filter_, enum tep_errno _err_, char pass:[*]buf, size_t _buflen_);
int *tep_event_filtered*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
void *tep_filter_reset*(struct tep_event_filter pass:[*]_filter_);
void *tep_filter_free*(struct tep_event_filter pass:[*]_filter_);
char pass:[*]*tep_filter_make_string*(struct tep_event_filter pass:[*]_filter_, int
_event_id_);
int *tep_filter_remove_event*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
int *tep_filter_copy*(struct tep_event_filter pass:[*]_dest_, struct tep_event_filter pass:[*]_source_);
int *tep_filter_compare*(struct tep_event_filter pass:[*]_filter1_, struct tep_event_filter pass:[*]_filter2_);

Parsing various data from the records:
int *tep_data_type*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_pid*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_preempt_count*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_flags*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);

Command and task related APIs:
const char pass:[*]*tep_data_comm_from_pid*(struct tep_handle pass:[*]_tep_, int _pid_);
struct cmdline pass:[*]*tep_data_pid_from_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, struct cmdline pass:[*]_next_);
int *tep_register_comm*(struct
tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
int *tep_override_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
bool *tep_is_pid_registered*(struct tep_handle pass:[*]_tep_, int _pid_);
int *tep_cmdline_pid*(struct tep_handle pass:[*]_tep_, struct cmdline pass:[*]_cmdline_);

Endian related APIs:
int *tep_is_bigendian*(void);
unsigned long long *tep_read_number*(struct tep_handle pass:[*]_tep_, const void pass:[*]_ptr_, int _size_);
bool *tep_is_file_bigendian*(struct tep_handle pass:[*]_tep_);
void *tep_set_file_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);
bool *tep_is_local_bigendian*(struct tep_handle pass:[*]_tep_);
void *tep_set_local_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);

Control library logs:

```
 int *tep_set_loglevel*(enum tep_loglevel _level_);

KVM plugin calllbacks: (Defined by the application and complied with -rdynamic)
 const char pass:[*]*tep_plugin_kvm_get_func*(struct
 tep_event pass:[*]event,
       struct tep_record pass:[*]record,
       unsigned long long pass:[*]paddr);
 void *tep_plugin_kvm_put_func*(const char pass:[*]func);

Trace sequences:
*#include <trace-seq.h>*
 void *trace_seq_init*(struct trace_seq pass:[*]_s_);
 void *trace_seq_reset*(struct trace_seq pass:[*]_s_);
 void *trace_seq_destroy*(struct trace_seq pass:[*]_s_);
 int *trace_seq_printf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, ...);
 int *trace_seq_vprintf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, va_list _args_);
 int *trace_seq_puts*(struct trace_seq pass:[*]_s_, const char pass:[*]_str_);
 int *trace_seq_putc*(struct trace_seq pass:[*]_s_, unsigned char _c_);
 void *trace_seq_terminate*(struct trace_seq pass:[*]_s_);
 int *trace_seq_do_fprintf*(struct trace_seq pass:[*]_s_, FILE pass:[*]_fp_);
 int *trace_seq_do_printf*(struct trace_seq pass:[*]_s_);

kbuffer parsing:
#include <kbuffer.h>
 struct kbuffer pass:[*]*kbuffer_alloc*(enum
 kbuffer_long_size _size_, enum kbuffer_endian _endian_);
 struct kbuffer pass:[*]*kbuffer_dup*(struct kbuffer pass:[*]_kbuf_);
 void *kbuffer_free*(struct kbuffer pass:[*]_kbuf_);
 int *kbuffer_load_subbuffer*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuffer_);
 int *kbuffer_subbuffer_size*(struct kbuffer pass:[*]_kbuf);
 void pass:[*]*kbuffer_subbuffer*(struct kbuffer pass:[*]_kbuf);
 int *kbuffer_refresh*(struct kbuffer pass:[*]_kbuf_);
 int *kbuffer_start_of_data*(struct kbuffer pass:[*]_kbuf_);
 unsigned long long *kbuffer_timestamp*(struct kbuffer pass:[*]_kbuf_);
 unsigned long long *kbuffer_subbuf_timestamp*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuf_);
 void pass:[*]*kbuffer_read_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
 void pass:[*]*kbuffer_next_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
 void pass:[*]*kbuffer_read_at_offset*(struct kbuffer pass:[*]_kbuf_, int _offset_, unsigned long
 long pass:[*]_ts_);
 int *kbuffer_missed_events*(struct kbuffer pass:[*]_kbuf_);
 int *kbuffer_event_size*(struct kbuffer pass:[*]_kbuf_);
 int *kbuffer_curr_size*(struct kbuffer pass:[*]_kbuf_);
 int *kbuffer_curr_offset*(struct kbuffer pass:[*]_kbuf_);
 int *kbuffer_curr_index*(struct kbuffer pass:[*]_kbuf_);
 int *kbuffer_read_buffer*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_buffer_, int _start_, int _len_);
--

DESCRIPTION
```

The libtraceevent(3) library provides APIs to access kernel tracepoint events,
located in the tracefs file system under the events directory.

ENVIRONMENT

[verse]
--
TRACEEVENT_PLUGIN_DIR
 Additional plugin directory. All shared object files, located in this directory will be loaded as traceevent plugins.
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
trace-seq.h
 Header file to include in order to have access to trace sequences related APIs.
 Trace sequences are used
 to allow a function to call several other functions
 to create a string of data to use.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
---
trace-cmd(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
==========

NAME
----
tep_parse_saved_cmdlines, tep_parse_printk_formats, tep_parse_kallsyms
- Parsing functions to load mappings

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_parse_saved_cmdlines*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
int *tep_parse_printk_formats*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
int *tep_parse_kallsyms*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
--

DESCRIPTION
----
tep_parse_saved_cmdlines() is a helper function to parse content in the tracefs
file system of the "saved_cmdlines" file (stored in a string buffer passed in by _buf_)
and loads the mapping of the process IDs (pid) to the comm names in the
tep handler. The events store the pid and this is used to be able to show the
process names associated to those process ids. It parses the string _buf_ that
holds the content of saved_cmdlines
and ends with a nul character ('\0').

tep_parse_printk_formats() is a helper function to parse content in the tracefs
file system of the "printk_formats" file (stored in a string buffer passed in by _buf_)
and loads the mapping of addresses of strings that may be referenced by events.
Events only store the address of constant strings in the kernel, and the mapping
of their address to the string is exported to user space in the printk_formats
file. It parses the string _buf_ that holds the content of printk_formats and
ends with a nul character ('\0').

tep_parse_kallsyms() is a helper function to parse the Linux kernel /proc/kallsyms format
(stored in a string buffer passed in by _buf_) and load the functions into the
tep handler such that function IP addresses can be mapped to their name when
parsing events with %pS in the print format field. It parses the string _buf_ that

holds the content of /proc/kallsyms and ends with a nul character ('\0').

RETURN VALUE

The
tep_parse_saved_cmdlines() function returns 0 in case of success, or -1
in case of an error.

The *tep_parse_printk_formats*() function returns 0 in case of success, or -1
in case of an error.

The *tep_parse_kallsyms*() function returns 0 in case of success, or -1
in case of an error.

EXAMPLE

[source,c]
--
...
#include <event-parse.h>
#include <tracefs.h>
#include <stdlib.h>

int load_cmdlines(struct tep_handle *tep)
{
	char *buf = NULL;
	int r;

	buf = tracefs_instance_file_read(NULL, "saved_cmdlines", NULL);
	if (!buf)
		return -1;
	r = tep_parse_saved_cmdlines(tep, buf);
	free(buf);
	return r;
}

int load_print_strings(struct tep_handle *tep)
{
	char *buf = NULL;
	int r;

	buf = tracefs_instance_file_read(NULL, "printk_formats", NULL);
	if (!buf)
		return -1;
	r = tep_parse_printk_formats(tep, buf);
	free(buf);
	return r;
}

```
int load_kallsyms(struct
 tep_handle *tep)
{
	char *line = NULL;
	char *buf = NULL;
	size_t sz = 0;
	FILE *fp;
	int len = 0;
	int r;

	fp = fopen("/proc/kallsyms", "r");
	while ((r = getline(&line, &sz, fp)) >= 0) {
		buf = realloc(buf, len + r + 1);
		memcpy(buf + len, line, r);
		len += r;
	}
	free(line);
	fclose(fp);
	if (!buf)
		return -1;
	buf[len] = 0;

	r = tep_parse_kallsyms(tep, buf);
	free(buf);
	return r;
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1), *tep_register_comm*(3), *tep_register_function*(3),
*tep_register_print_string*(3)

AUTHOR
------
[verse]
```

--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir
Stoyanov* <tz.stoyanov@gmail.com>, coauthor of *libtraceevent*.
--
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libtraceevent(3)
==========

NAME
---
tep_find_common_field, tep_find_field, tep_find_any_field -
Search for a field in an event.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_format_field pass:[*]*tep_find_common_field*(struct tep_event pass:[*]_event_, const char pass:[*]_name_);
struct tep_format_field pass:[*]*tep_find_field*(struct tep_event_ormat pass:[*]_event_, const char pass:[*]_name_);
struct tep_format_field pass:[*]*tep_find_any_field*(struct tep_event pass:[*]_event_, const char pass:[*]_name_);
--

DESCRIPTION

These functions search for a field with given name in an event. The field
returned can be used to find the field content from within a data record.

The *tep_find_common_field()* function searches for a common field with _name_ in the _event_.

The *tep_find_field()* function searches for an event specific field with _name_ in the _event_.

The *tep_find_any_field()*
function searches for any field with _name_ in the _event_.

RETURN VALUE

The _tep_find_common_field(), *tep_find_field()* and _tep_find_any_field()_ functions return a pointer to the found field, or NULL in case there is no field with the requested name.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
...
void get_htimer_info(struct tep_handle *tep, struct tep_record *record)
{
 struct tep_format_field *field;
 struct tep_event *event;
 long long softexpires;
 int mode;
 int pid;

 event = tep_find_event_by_name(tep, "timer", "hrtimer_start");

 field = tep_find_common_field(event, "common_pid");
 if (field == NULL) {
  /* Cannot find "common_pid" field in the event */
 } else {
  /* Get pid from the data record */
  pid = tep_read_number(tep, record->data + field->offset,
        field->size);
 }

 field = tep_find_field(event, "softexpires");
 if (field == NULL) {
  /* Cannot find "softexpires" event specific field in the event */
 } else {
  /* Get
 softexpires parameter from the data record */
  softexpires = tep_read_number(tep, record->data + field->offset,
```

```
        field->size);
 }

 field = tep_find_any_field(event, "mode");
 if (field == NULL) {
  /* Cannot find "mode" field in the event */
 } else
 {
  /* Get mode parameter from the data record */
  mode = tep_read_number(tep, record->data + field->offset,
        field->size);
 }
}
...
--
```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

---

libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

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libtraceevent(3)
==========

NAME
----
tep_alloc, tep_free,tep_ref, tep_unref,tep_get_ref, tep_kbuffer - Create, destroy, manage references of trace event parser context.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_handle pass:[*]*tep_alloc*(void);
void *tep_free*(struct tep_handle pass:[*]_tep_);
void *tep_ref*(struct tep_handle pass:[*]_tep_);
void *tep_unref*(struct tep_handle pass:[*]_tep_);
int *tep_get_ref*(struct tep_handle pass:[*]_tep_);
struct kbuffer pass:[*]*tep_kbuffer*(struct tep_handle pass:[*]_tep_);
--

DESCRIPTION

These are the main functions to create and destroy tep_handle - the main structure, representing the trace event parser context. This context is used as the input parameter of most library APIs.

The *tep_alloc()* function allocates and initializes the tep context.

The *tep_free()* function will decrement the reference of the _tep_ handler. When
there is no more references, then it will free the handler, as well as clean up all its resources that it had used. The argument _tep_ is the pointer to the trace event parser context.

The *tep_ref()* function adds a reference to the _tep_ handler.

The *tep_unref()* function removes a reference from the _tep_ handler. When the last reference is removed, the _tep_ is destroyed, and all resources that it had used are cleaned up.

The *tep_ref_get()* functions gets the current references of the _tep_ handler.

The *tep_kbuffer()* function allocates a kbuffer descriptor that can be used to
parse raw data that is represented by the _tep_ handle descriptor. It must be freed
with *kbuf_free(3)*.

RETURN VALUE
----
tep_alloc() returns a pointer to a newly created tep_handle structure.
NULL is returned in case there is not enough free memory to allocate it.

tep_ref_get() returns the current references of _tep_.
If _tep_ is NULL, 0 is returned.

tep_kbuffer() returns a kbuffer descriptor
 that can parse the raw data that
represents the tep handle. Must be freed with *kbuf_free(3)*.

EXAMPLE

[source,c]
--
#include <event-parse.h>

...
struct tep_handle *tep = tep_alloc();
...
int ref = tep_get_ref(tep);
tep_ref(tep);
if ((ref+1) != tep_get_ref(tep)) {
 /* Something wrong happened, the counter is not incremented by 1 */
}
tep_unref(tep);
...
tep_free(tep);
...
--
FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO

---
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-handle.txt
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libtraceevent(3)
==========

NAME
---
tep_list_events, tep_list_events_copy -
Get list of events, sorted by given criteria.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_event_sort_type* {
 _TEP_EVENT_SORT_ID_,
 _TEP_EVENT_SORT_NAME_,
 _TEP_EVENT_SORT_SYSTEM_,
};

struct tep_event pass:[*]pass:[*]*tep_list_events*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type _sort_type_);
struct tep_event pass:[*]pass:[*]*tep_list_events_copy*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type _sort_type_);
--

DESCRIPTION

The *tep_list_events()* function returns an array of pointers to the events,
sorted by the _sort_type_ criteria. The last element of the array is NULL.
The returned memory must not be freed, it is managed by the library.
The function is not thread safe. The _tep_ argument is trace event parser
context. The _sort_type_ argument is the required sort criteria:
[verse]
--
_TEP_EVENT_SORT_ID_ -
sort by the event ID.
_TEP_EVENT_SORT_NAME_ - sort by the event (name, system, id) triplet.
_TEP_EVENT_SORT_SYSTEM_ - sort by the event (system, name, id) triplet.
--

The *tep_list_events_copy()* is a thread safe version of _tep_list_events()_.
It has the same behavior, but the returned array is allocated internally and
must be freed by the caller. Note that the content of the array must not be
freed (see the EXAMPLE below).

RETURN VALUE

The *tep_list_events()* function returns an array of pointers to events.
In case of an error, NULL is returned. The returned array must not be freed,
it is managed by the library.

The *tep_list_events_copy()* function returns an array of pointers to events.
In case of an error, NULL is returned. The returned array must be freed by
the caller.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
int i;
struct tep_event_format **events;

i=0;

```
events =
 tep_list_events(tep, TEP_EVENT_SORT_ID);
if (events == NULL) {
 /* Failed to get the events, sorted by ID */
} else {
 while(events[i]) {
  /* walk through the list of the events, sorted by ID */
  i++;
 }
}

i=0;
events = tep_list_events_copy(tep, TEP_EVENT_SORT_NAME);
if (events == NULL) {
 /* Failed to get the events, sorted by name */
} else {
 while(events[i]) {
  /* walk through the list of the events, sorted by name */
  i++;
 }
 free(events);
}

...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
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*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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Version 3, 29 June 2007

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1.676 python3-idna 3.3

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1.677 xfsprogs 5.13.0

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1.678 dpdk-kmods 1.0

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 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
  <xsl:text>
</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '
')"/>
  <xsl:if test="translate($rest, '	 ', '')">
    <xsl:call-template name="isc.copyright.format">
     <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
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  <xsl:call-template name="isc.copyright.format">
   <xsl:with-param name="text">
    <xsl:for-each select="db:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">

```
    <xsl:with-param name="years" select="db:year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="db:holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
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 - Local variables:
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1.684 python-protobuf 3.9.2

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Metadata-Version: 1.2
Name: protobuf
Version: 3.9.2
Summary: Protocol Buffers
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Description: Protocol Buffers are Google's data interchange format
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1.686 python3-certifi 2021.10.8

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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@(#) $RCSfile: certdata.txt,v $
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1.687 libidn 1.36

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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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1.690 python-pyyaml 5.4.1

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1.693 libdbi-perl 1.643

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1.694 mtools 4.0.38

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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.707 cffi 1.15.0

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1.708 pyasn1 0.4.8

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ASN.1 library for Python
========================

.. toctree::
:maxdepth: 1

Abstract Syntax Notation One (`ASN.1
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a
technology for exchanging structured data in a universally understood,
hardware agnostic way. Many industrial, security and telephony
applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements
ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and
widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_
or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF,
 ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation

.. toctree::
  :maxdepth: 2

  /pyasn1/contents

Use case

.. toctree::
  :maxdepth: 2

  /example-use-case

Download & Install

.. toctree::
  :maxdepth: 2

  /download

Changes

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.

..
 toctree::
  :maxdepth: 1

  /changelog

License

The PyASN1 software is distributed under 2-clause BSD License.

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Getting help

Please, file your `issues <https://github.com/etingof/pyasn1/issues>`_
and `PRs <https://github.com/etingof/pyasn1/pulls>`_ at GitHub.
Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_
or search
`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_
mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome
books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by
Olivier Dubuisson
* `ASN.1 Complete <http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>`_ by
Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU standards

<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`_

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`_
by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper
book on the subject.

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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier:

Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
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ASN.1 library for Python

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Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)
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blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
---

*
Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by
Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
      NamedType('id', Integer()),
      OptionalNamedType(
          'room', Integer().subtype(
              implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
          )
```

```
      ),
      DefaultedNamedType(
         'house',
 Integer(0).subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
         )
      )
   )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify,
 encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
```

```
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely
available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If
 something does not work as expected,
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/README.md

1.709 packaging 21.2

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1.710 ndg-httpsclient 0.5.1

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1.711 pyopenssl 22.0.0

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1.712 tempora 1.13

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1.713 zc-lockfile 1.3.0

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1.714 iniparse 0.5

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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes

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to attach them to the start of each source file to most effectively
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This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and
`show c' should show the appropriate
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1.717 which 2.21

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Version 3, 29 June 2007

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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Developed by:

LLVM Team

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1.724 util-linux-libuuid 2.37.4

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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1.725 inetutils 2.2

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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1.728 python-six 1.16.0

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1.729 eudev 3.2.10

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1.730 kbd 2.4.0

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Python was created in the early 1990s by Guido van Rossum at Stichting
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In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
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In May 2000, Guido and the Python core development team moved to
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