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In your requests please include the following reference number 78EE117C99-132313461

Contents

1.1 alsa-lib 1.0.16 :3.fc9
   1.1.1 Available under license
1.2 alsa-utils 1.0.16 :2.fc9
   1.2.1 Available under license
1.3 Apache HTTP Server 2.2.8
   1.3.1 Available under license
1.4 apache-log4j 1.2.15 :DUPLICATE
   1.4.1 Available under license
1.5 apr-util 1.5.4
   1.5.1 Available under license
1.6 atk 1.22.0 :1.fc9
   1.6.1 Available under license
1.7 bash 3.2 :33.1
   1.7.1 Available under license
1.8 BigIntegers and RSA in JavaScript 1.1
   1.8.1 Available under license
1.9 Blob.js 1.0
   1.9.1 Available under license
1.10 BMC/CIMC Device Drivers 1.0/1.1 :1.0
    1.10.1 Available under license
1.11 boa 0.94.13
    1.11.1 Available under license
1.12 busybox 1.21.0
    1.12.1 Available under license
1.13 BusyBox 1.8.2
    1.13.1 Available under license
1.14 busybox 1.18.0
   1.14.1 Available under license
1.15 busybox 1.01
   1.15.1 Available under license
1.16 bzip2 1.0.5
   1.16.1 Available under license
1.17 bzip2 1.0.6
   1.17.1 Available under license
1.18 cairo 1.4.14 :1.fc8
   1.18.1 Available under license
1.19 CheckboxTree 3.2
   1.19.1 Available under license
1.20 coreutils 5.2.1 :3.0.2-0703267
   1.20.1 Available under license
1.21 cpio 2.5. :1.0.1.0703267
   1.21.1 Available under license
1.22 Cyrus SASL Library 2.1.22
   1.22.1 Notifications
   1.22.2 Available under license
1.23 cyrus-sasl 2.1.19 :14
   1.23.1 Available under license
1.24 directfb 1.0.0 :4.fc9
   1.24.1 Available under license
1.25 dmidecode 2.9
   1.25.1 Available under license
1.26 dojo-1.8.3 1.8.3
   1.26.1 Available under license
1.27 dropbear 0.51
   1.27.1 Available under license
1.28 dropbear 0.50 :DUPLICATE
1.29 e2fsprogs 1.35
   1.29.1 Available under license
1.30 e2fsprogs 1.41.3 :1.0.0
   1.30.1 Available under license
1.31 eject 2.1.5 :5
   1.31.1 Available under license
1.32 ethtool 3
   1.32.1 Available under license
1.33 expat 2.0.1
1.33.1 Available under license
1.34 expat 2.0.0
1.34.1 Available under license
1.35 expat 2.1.0
1.35.1 Available under license
1.36 expat 1.95.7
1.36.1 Available under license
1.37 Expat Lib 2.0.1
1.37.1 Available under license
1.38 fbset 2.1 :25.fc9
1.38.1 Available under license
1.39 FileSaver.js 1.0
1.39.1 Available under license
1.40 Foxtrot 3.0
1.40.1 Available under license
1.41 gawk 3.1.3 :2.0.0.0703267
1.41.1 Available under license
1.42 GCC Compiler ,GCC C++ run-time library and GCC STL 3.2.1
1.42.1 Available under license
1.43 GCC Compiler ,GCC C++ run-time library and GCC STL - libs 3.2.1
1.43.1 Available under license
1.44 GDB 6.6
1.44.1 Available under license
1.45 gdbm 1.8.3
1.45.1 Available under license
1.46 glib 2.8.3-1.0.1 :0703267
1.46.1 Available under license
1.47 glib2 2.16.3 :5.fc9
1.47.1 Available under license
1.48 glibc 2.7
1.48.1 Available under license
1.49 glibc 2.8
1.49.1 Available under license
1.50 glibc-ports 2.5
1.50.1 Available under license
1.51 gridx 1.2 1.2.1
1.51.1 Available under license
1.52 gtk-doc 1.9 :4.fc9
1.52.1 Available under license
1.53 gtk2 2.12.9 :5.fc9
  1.53.1 Available under license
1.54 gzip 1.3.5-2.0 :0703267
  1.54.1 Available under license
1.55 hotplug2 0.9 :2.0
  1.55.1 Available under license
1.56 httpd 2.4.16
  1.56.1 Available under license
1.57 httpd 2.2.25 :1
  1.57.1 Available under license
1.58 httpd 2.4.16 :1
  1.58.1 Available under license
1.59 httpd/modules/mappers/mod_imagemap.c 2.4.16
  1.59.1 Available under license
1.60 httpd/rsa-dsi-md4-portions 2.4.16
  1.60.1 Available under license
1.61 httpd/rsa-dsi-md4-portions 2.4.12
  1.61.1 Available under license
1.62 httpd/rsa-dsi-md5-portions 2.4.16
  1.62.1 Available under license
1.63 httpd/rsa-dsi-md5-portions 2.4.12
  1.63.1 Available under license
1.64 httpd/srclib/apr-util/test/testmd4.c 2.4.16
  1.64.1 Available under license
1.65 httpd/util_md5 2.4.16
  1.65.1 Available under license
1.66 httpd/zeusbench-portions 2.4.16
  1.66.1 Available under license
1.67 jautocomp 20050128 :20050128
  1.67.1 Available under license
1.68 javascript-ipv6 3.1.1
  1.68.1 Available under license
1.69 jbusycomponent 1.0.1
  1.69.1 Available under license
1.70 jcommon 1.0.12
  1.70.1 Available under license
1.71 JFreeChart 1.0.9
  1.71.1 Available under license
1.72 JGraph 5.0
1.72.1 Available under license

1.73 Jna 3.2.0
   1.73.1 Available under license

1.74 jxlayer 3.0
   1.74.1 Available under license

1.75 libcurl 7.43.0
   1.75.1 Available under license

1.76 libcurl 7.25
   1.76.1 Available under license

1.77 libedit 20090923-3.0
   1.77.1 Available under license

1.78 libgcc 1-3.4.3-25.0.135 :0703267
   1.78.1 Available under license

1.79 libpcap 1.4.0 :1.20130826git2dbcaaa1.el6
   1.79.1 Available under license

1.80 LibPCAP 0.9.8
   1.80.1 Available under license

1.81 libposixtime 3.1.1-1.0.3 :0703267
   1.81.1 Notifications
   1.81.2 Available under license

1.82 libtecla 1.6.0 :0
   1.82.1 Available under license

1.83 libusb 0.1.12 :15.fc9
   1.83.1 Available under license

1.84 libxml2 2.9.3
   1.84.1 Available under license

1.85 libxml2 2.6.26 :Tue Jun  6 2006 Daniel Veillard
   1.85.1 Available under license

1.86 libxml2 2.6.30
   1.86.1 Available under license

1.87 linux 2.6.16.12
   1.87.1 Available under license

1.88 Linux Kernel 2.6.27.47
   1.88.1 Available under license

1.89 Linux Kernel 3.4.30
   1.89.1 Available under license

1.90 linux-live 5.5.0
   1.90.1 Available under license

1.91 lsof 4.7.1-2.0 :0703267
1.91.1 Notifications
1.91.2 Available under license
1.92 ltrace 0.5.1
1.92.1 Available under license
1.93 MAKEDEV 3.23 :1.2
1.93.1 Available under license
1.94 memstat 0.4
1.94.1 Available under license
1.95 Miglayout 3.6
1.95.1 Available under license
1.96 mod_auth_pam 1.1.1
1.96.1 Available under license
1.97 mod_security 2.9.0
1.97.1 Available under license
1.98 mod_security_crs 2.2.9
1.98.1 Available under license
1.99 module-init-tools 3.2.2
1.99.1 Available under license
1.100 MooTools 1.4.3
1.100.1 Available under license
1.101 mtd-utils 2.6.9-1.1 :0703267
1.101.1 Available under license
1.102 mtd-utils 1.2.0 1.2.0-1.fc10
1.102.1 Available under license
1.103 ncurses 5.6 :6.20070303.fc7
1.103.1 Available under license
1.104 ncurses 5.4-1.0.2 :0703267
1.104.1 Available under license
1.105 net-snmp 5.1
1.105.1 Available under license
1.106 net-tools 1.60
1.106.1 Available under license
1.107 netkit-rsh 0.17-6.0.3 :0703267
1.107.1 Available under license
1.108 ntp 4.2.8p7 :12.0.5.20160502
1.108.1 Available under license
1.109 ntp/util 4.2.8p7 :12.0.5.20160502
1.109.1 Available under license
1.110 NullSoft Install System (NSIS) 2.41
1.110.1 Available under license

1.111 Office LnF 2.7
  1.111.1 Available under license

1.112 omcclp-0.5 0.5
  1.112.1 Available under license

1.113 OpenLDAP 2.4.17
  1.113.1 Available under license

1.114 OpenLDAP/nss-lapd 2.4.17
  1.114.1 Available under license

1.115 openssh 6.2p2 :r0
  1.115.1 Available under license

1.116 OpenSSL fips-1.2
  1.116.1 Notifications
  1.116.2 Available under license

1.117 OpenSSL 1.0.2g :1
  1.117.1 Available under license

1.118 OpenSSL 0.9.8i
  1.118.1 Notifications
  1.118.2 Available under license

1.119 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0
  1.119.1 Notifications
  1.119.2 Available under license

1.120 openssl-fips-1.2.3 1.2.3
  1.120.1 Notifications
  1.120.2 Available under license

1.121 openwbem-3.2.2 3.2.2
  1.121.1 Available under license

1.122 openwsman-core-1.5.9 1.5.9
  1.122.1 Available under license

1.123 PAM 0.99.10.0
  1.123.1 Available under license

1.124 pam 0.76-4.0.3 :0703267
  1.124.1 Available under license

1.125 pango 1.20.1 :1.fc9
  1.125.1 Available under license

1.126 pciutils 2.2.5 :6.0.0.0801182
  1.126.1 Available under license

1.127 pcre 8.36 :26-September-2014
  1.127.1 Available under license
1.128 pcre 7.9
   1.128.1 Available under license

1.129 Perl 5.8.4
   1.129.1 Available under license

1.130 perl 5.10.0 :47.fc10
   1.130.1 Available under license

1.131 pppd 2.4.1 :1.0
   1.131.1 Available under license

1.132 Prefuse beta :2007.10.21
   1.132.1 Available under license

1.133 procmail 3.22-1.0 :0703267
   1.133.1 Available under license

1.134 procps 3.2.5-6.0 :0703267
   1.134.1 Available under license

1.135 ptpd v1rc1
   1.135.1 Available under license

1.136 python 2.7.10
   1.136.1 Available under license

1.137 Python 2.7.2
   1.137.1 Available under license

1.138 python2 2.7.10
   1.138.1 Available under license

1.139 readline 5.2 :ASA
   1.139.1 Available under license

1.140 readline bash 3.2
   1.140.1 Available under license

1.141 readline-libs 4.3-2.0.1 :0703267
   1.141.1 Available under license

1.142 recode 3.6
   1.142.1 Available under license

1.143 rpm 4.3.3-6.0.4 :0703267
   1.143.1 Available under license

1.144 rsync 2.6.3 :1
   1.144.1 Available under license

1.145 rsync 2.6.9
   1.145.1 Available under license

1.146 Rsyslog 3.16.1 :nouva
   1.146.1 Available under license

1.147 Rsyslog 3.17.5
1.147.1 Available under license
1.148 sblim-sfcb-1.2.4 1.2.4
   1.148.1 Available under license
1.149 sblim-sfcb-1.3.3 1.3.3
   1.149.1 Available under license
1.150 sblim-sfcc-2.0.2 2.0.2
   1.150.1 Available under license
1.151 setmixer 27DEC94ds1
   1.151.1 Available under license
1.152 sox 14.0.1
   1.152.1 Available under license
1.153 Strace 4.5.18
   1.153.1 Available under license
1.154 strace 4.5.11-1.0.6 :.0703267
   1.154.1 Available under license
1.155 strongswan 5.3.5
   1.155.1 Available under license
1.156 SwingX 1.0
   1.156.1 Available under license
1.157 syslogd 1.0 modified
   1.157.1 Available under license
1.158 Sysstat 8.1.2
   1.158.1 Available under license
1.159 tcl 8.4.19
   1.159.1 Available under license
1.160 tcl 8.5.7
   1.160.1 Available under license
1.161 tcl/tk 8.3.3
   1.161.1 Available under license
1.162 tcp-wrappers 7.6-7.0.1 :0703267
   1.162.1 Available under license
1.163 tftp-hpa 5.2
   1.163.1 Available under license
1.164 TianoCore EDK 1.03
   1.164.1 Available under license
1.165 TianoCore EFI-SHELL 1.00
   1.165.1 Available under license
1.166 Timing Framework 1.0
   1.166.1 Available under license
1.167 tslib 1.0 :1
   1.167.1 Available under license
1.168 U-Boot 1.1.3
   1.168.1 Available under license
1.169 U-Boot 1.1.4
   1.169.1 Available under license
1.170 uboot 1.3.0 modified
   1.170.1 Available under license
1.171 usbutils 0.73 :2.fc9
   1.171.1 Available under license
1.172 vlan 1.8 :1.0.1.0501961
   1.172.1 Available under license
1.173 wireshark 1.10.1
   1.173.1 Available under license
1.174 wireshark 1.2.9
   1.174.1 Available under license
1.175 wireshark 0.99.6 :1.el5
   1.175.1 Available under license
1.176 wireshark/tools/pidl 1.10.1
   1.176.1 Available under license
1.177 wrsv-ltt 1.0
   1.177.1 Available under license
1.178 x2js 1.0.8
   1.178.1 Available under license
1.179 xinetd 2.3.3
   1.179.1 Available under license
1.180 xinetd 2.3.15
   1.180.1 Available under license
1.181 yaffs2 2006-01-30
   1.181.1 Available under license
1.182 yui 2.6.0
   1.182.1 Available under license
1.183 zeromq 4.0.4
   1.183.1 Available under license
1.184 zlib 1.2.3.3 :2
   1.184.1 Available under license
1.185 zlib 1.2.1.1-2.0.2 :0703267
   1.185.1 Available under license
1.186 zlib 1.2.7
1.186.1 Available under license
1.187 zlib 1.2.1.2 :1.2
1.187.1 Available under license
1.188 Zlib 1.2.3
1.188.1 Available under license

1.1 alsa-lib 1.0.16 :3.fc9
1.1.1 Available under license:

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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
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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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<one line to give the program's name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:
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<signature of Ty Coon>, 1 April 1989
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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:

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
From mikel@ora.com Tue Aug  1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
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
Received: by los.ora.com (4.1/Spike-2.1)
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
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

-------
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

Open Source Used In Cisco FXOS 2.1(1)
>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. :-)  
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jseward@bzip.org
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

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1.24 directfb 1.0.0 :4.fc9

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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>

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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:

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

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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
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.

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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
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must be distributed under the terms of Sections 1 and 2 above on a
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d) 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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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!

1.42 GCC Compiler ,GCC C++ run-time 
library and GCC STL 3.2.1

1.42.1 Available under license :

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Version 2, June 1991

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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.

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   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.

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1.45 gdbm 1.8.3

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1.46 glib 2.8.3-1.0.1 :0703267

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Thus, it is not the intent of this section to claim rights or contest
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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 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.

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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 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.

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1.47 glib2 2.16.3 :5.fc9

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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.]

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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.

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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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its purpose remains meaningful.

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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.

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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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1.48 glibc 2.7

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1.50 glibc-ports 2.5

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 * Software Development Group
 * National Center for Supercomputing Applications
 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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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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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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From strings/apr_strnatcmp.c, include/apr_strings.h:

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# install - install a program, script, or datafile
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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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    } else {
        d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\/div>');
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************************************************************************
*
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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)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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1.60 httpd/rsa-dsi-md4-portions 2.4.16

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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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1.61 httpd rsa-dsi-md4-portions 2.4.12
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1.62 httpd/rsa-dsi-md5-portions 2.4.16

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/************************************************************************
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* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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/*
   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)

*/

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1.63 httpd/rsa-dsi-md5-portions 2.4.12

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* -------------------------------------------------------------------
*/

1.64 httpd/srclib/apr-util/test/testmd4.c 2.4.16

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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"/>
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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" />
<script src="./style/scripts/prettify.min.js" type="text/javascript"></script>
</head>
<body id="manual-page" class="no-sidebar">
<p class="apache">Apache HTTP Server Version 2.4</p>
<img alt="" src="./images/feather.gif" /></div>
<div class="up"><a href="./"><img title="<" alt="<" src="./images/left.gif" /></a></div>
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<script type="text/javascript"><!--

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 + '&site= + 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);

--&gt;
</script>
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For the server\util_md5.c component:

/*************************************************************************
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 * Software Development Group
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 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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For the test\zb.c component:
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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)
Michael Campanella (campanella@stevms.enet.dec.com)

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

*/

For the expat xml parser component:

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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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/*

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National Center for Supercomputing Applications
University of Illinois at Urbana-Champaign
605 E. Springfield, Champaign, IL 61820
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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)

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<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
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/************************************************************************
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* National Center for Supercomputing Applications
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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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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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c) Accompany the work with a written offer, valid for at
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For an executable, the required form of the "work that uses the
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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.

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the other libraries use and what possible dilemmas linking and mixing them all
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1.84 libxml2 2.9.3

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1.85 libxml2 2.6.26 :Tue Jun 6 2006 Daniel Veillard

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1.86 libxml2 2.6.30

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1.87 linux 2.6.16.12

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

That's all there is to it!
/* 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 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $
*
* 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_nicst() 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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1.88 Linux Kernel 2.6.27.47

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AverMedia fix and more flexible card recognition

Alan Cox <alan@redhat.com>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

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+ many more (please mail me if you are missing in this list and would
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for the nxt2004 frontend driver

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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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FlashPoint Driver Developer's Kit
Version 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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Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would
like to be mentioned)
Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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

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for the nxt2004 frontend driver
Kirk Lapray <kirk.lapray@gmail.com> for the or51211 and or51132 frontend drivers, and for merging the nxt2002 and nxt2004 modules into a single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

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 *
 * 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 CFGPHYIE)
 *
 * 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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1.106 net-tools 1.60

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5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
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23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
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
   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@gwdg1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <moore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
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43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code
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44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
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45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Sanchez <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
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52. [56]Harlan Stenn <harlan@pfcs.com> GNU automate/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
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55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock
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56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase,
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57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
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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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3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
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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 snntp to comply with NTPv4 specification, ntpq saveconfig
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32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
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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 Sanchez <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
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makeover, various other bits (see the ChangeLog)
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic 
TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and 
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1.115 openssh 6.2p2 :r0

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* @version 3.0 (December 2000)
* 
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* 
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1.117 OpenSSL 1.0.2g :1

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1.118 OpenSSL 0.9.8i

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1.119 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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1.120 openssl-fips-1.2.3 1.2.3

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1.121 openwbem-3.2.2 3.2.2

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1.122 openwsman-core-1.5.9 1.5.9

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1.124 pam 0.76-4.0.3 :0703267

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1.125 pango 1.20.1 :1.fc9

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Pango is a library for layout and rendering of text, with an emphasis on internationalization. Pango can be used anywhere that text layout is needed; however, most of the work on Pango so far has been done using the GTK+ widget toolkit as a test platform. Pango forms the core of text and font handling for GTK+-2.x.
Pango is designed to be modular; the core Pango layout can be used with different font backends. There are three basic backends, with multiple options for rendering with each.

- Client side fonts using the FreeType and fontconfig libraries. Rendering can be with with Cairo or Xft libraries, or directly to an in-memory buffer with no additional libraries.

- Native fonts on Microsoft Windows using Uniscribe if available for complex script handling. Rendering can be done via Cairo or directly using the native Win32 API.

- Native fonts on MacOS X, rendering via Cairo.

The integration of Pango with Cairo (http://cairographics.org) provides a complete solution with high quality text handling and graphics rendering.

Dynamically loaded modules then handle text layout for particular combinations of script and font backend.

As well as the low level layout rendering routines, Pango includes PangoLayout, a high level driver for laying out entire blocks of text, and routines to assist in editing internationalized text.

For more information about Pango, see:

http://www.pango.org/

Dependencies
=============

Pango depends on the GLib library; more information about GLib can be found at http://www.gtk.org/.

When using client side fonts, the fontconfig library (http://www.fontconfig.org) to look up fonts. At least version 2.0.9 of the FreeType font handling library (http://www.freetype.org) is also required.

Cairo support depends on the Cairo library (http://cairographics.org). The Cairo backend is the preferred backend to use Pango with and is subject of most of the development in the future. It has the advantage that the same code can be used for display and printing.

We suggest using Pango with Cairo as described above, but you can also do X-specific rendering using the Xft library. The Xft backend uses version 2 of the Xft library to manage client side fonts. Version 2 of
Xft is available from http://xlibs.freedesktop.org/release/. You'll need the libXft package, and possibly the libXrender and renderext packages as well. You'll also need fontconfig (see below.)

Installation of Pango on Win32 is possible, but is not documented here. See http://www.gimp.org/~tml/gimp/win32/downloads.html

Notes
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- By default, Pango tries to build itself so that no explicit dependency on Xft or FreeType will be introduced in apps that link to Pango. This is to avoid compatibility problems with changes in the Xft or FreeType API's or ABI's. Specifying --enable-explicit-deps or --enable-static when configuring Pango will defeat this and should be avoided if possible.

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Note that binary distributions of Pango must include a disclaimer that the software is based in part of the work of the FreeType Team, in the distribution documentation; for instance, by including this README file.

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26 February 2007
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/*
 * Database functions
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 */

#include <stdlib.h>
#include <stdio.h>
#include <fcntl.h>
#include <unistd.h>
#include <string.h>
#include <fcntl.h>
#include <errno.h>
#include <sys/mman.h>
#include <sys/stat.h>
#include "tdb.h"
#define TDB_VERSION (0x26011967 + 1)
#define TDB_MAGIC (0x26011999U)
#define TDB_FREE_MAGIC (~TDB_MAGIC)
#define TDB_ALIGN 4
#define MIN_REC_SIZE (2*sizeof(struct list_struct) + TDB_ALIGN)
#define DEFAULT_HASH_SIZE 128
#define TDB_PAGE_SIZE 0x2000
#define TDB_LEN_MULTIPLIER 10
#define FREELIST_TOP (sizeof(struct tdb_header))
#define LOCK_SET 1
#define LOCK_CLEAR 0

/* lock offsets */
#define GLOBAL_LOCK 0
#define ACTIVE_LOCK 4
#define LIST_LOCK_BASE 1024

#define BUCKET(hash) ((hash) % tdb->header.hash_size)

#ifndef MAP_FILE
#define MAP_FILE 0
#endif

/* the body of the database is made of one list_struct for the free space
   plus a separate data list for each hash value */
struct list_struct {
    tdb_len rec_len; /* total byte length of record */
    tdb_off next; /* offset of the next record in the list */
    tdb_len key_len; /* byte length of key */
    tdb_len data_len; /* byte length of data */
    unsigned full_hash; /* the full 32 bit hash of the key */
    unsigned magic; /* try to catch errors */
    /* the following union is implied */
    union {
        char record[rec_len];
        struct {
            char key[key_len];
        } data[data_len];
    }
} ;

/* a null data record - useful for error returns */
static TDB_DATA null_data;

/* a byte range locking function - return 0 on success */
/* this function locks/unlocks 1 byte at the specified offset */
static int tdb_brlock(TDB_CONTEXT *tdb, tdb_off offset,
        int set, int rw_type, int lck_type)
{
    #if NOLOCK
        return 0;
    #else
        struct flock fl;

        if (tdb->fd == -1) return 0; /* in memory tdb */
Open Source Used In Cisco FXOS 2.1(1)

if (tdb->read_only) return -1;

fl.l_type = set==LOCK_SET?rw_type:F_UNLOCK;
fl.l_whence = SEEK_SET;
fl.l_start = offset;
fl.l_len = 1;
fl.l_pid = 0;

if (fcntl(tdb->fd, lck_type, &fl) != 0) {
#if TDB_DEBUG
if (lck_type == F_SETLKW) {
printf("lock %d failed at %d (%s)n",
    set, offset, strerror(errno));
}
#endif
    tdb->ecode = TDB_ERR_LOCK;
return -1;
}
return 0;
#endif

/* lock a list in the database. list -1 is the alloc list */
static int tdb_lock(TDB_CONTEXT *tdb, int list)
{
    if (list < -1 || list >= (int)tdb->header.hash_size) {
#if TDB_DEBUG
printf("bad list %d\n", list);
#endif
    return -1;
}
    if (tdb->locked[list+1] == 0) {
        if (tdb_brlock(tdb, LIST_LOCK_BASE + 4*list, LOCK_SET,
            F_WRLCK, F_SETLKW) != 0) {
            return -1;
        }
    }
    tdb->locked[list+1]++;
    return 0;
}

/* unlock the database. */
static int tdb_unlock(TDB_CONTEXT *tdb, int list)
{
    if (list < -1 || list >= (int)tdb->header.hash_size) {
#if TDB_DEBUG
printf("bad unlock list %d\n", list);
#endif
    }
    tdb->locked[list+1]--;
    return 0;
}
#endif
return -1;
}

if (tdb->locked[list+1] == 0) {
#if TDB_DEBUG
printf("not locked %d\n", list);
#endif
tdb->ecode = TDB_ERR_LOCK;
return -1;
}
if (tdb->locked[list+1] == 1) {
if (tdb_brlock(tdb, LIST_LOCK_BASE + 4*list, LOCK_CLEAR,
       F_WRLCK, F_SETLKW) != 0) {
return -1;
}
}
tdb->locked[list+1]--;
return 0;
}

/* the hash algorithm - turn a key into an integer
   This is based on the hash algorithm from gdbm */
static unsigned tdb_hash(TDB_DATA *key)
{
unsigned value;/* Used to compute the hash value. */
unsigned i;/* Used to cycle through random values. */

/* Set the initial value from the key size. */
value = 0x238F13AF * key->dsize;
for (i=0; i < key->dsize; i++) {
value = (value + (key->dptr[i] << (i*5 % 24)));
}

value = (1103515243 * value + 12345);
return value;
}

/* find the top of the hash chain for an open database */
static tdb_off tdb_hash_top(TDB_CONTEXT *tdb, unsigned hash)
{
tdb_off ret;
hash = BUCKET(hash);
ret = FREELIST_TOP + (hash+1)*sizeof(tdb_off);
return ret;
}
/* check for an out of bounds access - if it is out of bounds then 
   see if the database has been expanded by someone else and expand 
   if necessary */
static int tdb_oob(TDB_CONTEXT *tdb, tdb_off offset)
{
    struct stat st;
    if ((offset <= tdb->map_size) || (tdb->fd == -1)) return 0;

    fstat(tdb->fd, &st);
    if (st.st_size <= (ssize_t)offset) {
        tdb->ecode = TDB_ERR_IO;
        return -1;
    }

#if HAVE_MMAP
    if (tdb->map_ptr) {
        munmap(tdb->map_ptr, tdb->map_size);
        tdb->map_ptr = NULL;
    }
#endif
    tdb->map_size = st.st_size;
#if HAVE_MMAP
    tdb->map_ptr = (void *)mmap(NULL, tdb->map_size,
                               tdb->read_only?PROT_READ:PROT_READ|PROT_WRITE,
                               MAP_SHARED | MAP_FILE, tdb->fd, 0);
#endif
    return 0;
}

/* write a lump of data at a specified offset */
static int tdb_write(TDB_CONTEXT *tdb, tdb_off offset, const char *buf, tdb_len len)
{
    if (tdb_oob(tdb, offset + len) != 0) {
        /* oops - trying to write beyond the end of the database! */
        return -1;
    }

    if (tdb->map_ptr) {
        memcpy(offset + (char *)tdb->map_ptr, buf, len);
    } else {
        if (lseek(tdb->fd, offset, SEEK_SET) != offset)
            write(tdb->fd, buf, len) != (ssize_t)len) {
            tdb->ecode = TDB_ERR_IO;
            return -1;
        }
    }
}
/* read a lump of data at a specified offset */
static int tdb_read(TDB_CONTEXT *tdb, tdb_off offset, char *buf, tdb_len len)
{
    if (tdb_oob(tdb, offset + len) != 0) {
        /* oops - trying to read beyond the end of the database! */
        return -1;
    }

    if (tdb->map_ptr) {
        memcpy(buf, offset + (char *)tdb->map_ptr, len);
    } else {
        if (lseek(tdb->fd, offset, SEEK_SET) != offset ||
            read(tdb->fd, buf, len) != (ssize_t)len) {
            tdb->ecode = TDB_ERR_IO;
            return -1;
        }
    }

    return 0;
}

/* read a lump of data, allocating the space for it */
static char *tdb_alloc_read(TDB_CONTEXT *tdb, tdb_off offset, tdb_len len)
{
    char *buf;

    buf = (char *)malloc(len);

    if (!buf) {
        tdb->ecode = TDB_ERR_OOM;
        return NULL;
    }

    if (tdb_read(tdb, offset, buf, len) == -1) {
        free(buf);
        return NULL;
    }

    return buf;
}

/* convenience routine for writing a record */
static int rec_write(TDB_CONTEXT *tdb, tdb_off offset, struct list_struct *rec)
{
return tdb_write(tdb, offset, (char *)rec, sizeof(*rec));
}

/* convenience routine for writing a tdb_off */
static int ofs_write(TDB_CONTEXT *tdb, tdb_off offset, tdb_off *d)
{
return tdb_write(tdb, offset, (char *)d, sizeof(*d));
}

/* read a tdb_off from the store */
static int ofs_read(TDB_CONTEXT *tdb, tdb_off offset, tdb_off *d)
{
return tdb_read(tdb, offset, (char *)d, sizeof(*d));
}

/* read a record and check for simple errors */
static int rec_read(TDB_CONTEXT *tdb, tdb_off offset, struct list_struct *rec)
{
if (tdb_read(tdb, offset, (char *)rec, sizeof(*rec)) == -1) return -1;
if (rec->magic != TDB_MAGIC) {
#if TDB_DEBUG
printf("bad magic 0x%08x at offset %d\n", rec->magic, offset);
#else
rec->ecode = TDB_ERR_CORRUPT;
#endif
return -1;
}
if (tdb_oob(tdb, rec->next) != 0) {
return -1;
}
return 0;
}

/* expand the database at least length bytes by expanding the
underlying file and doing the mmap again if necessary */
static int tdb_expand(TDB_CONTEXT *tdb, tdb_off length)
{
struct list_struct rec;

tdb_off offset, ptr;
char b = 0;

tdb_lock(tdb,-1);

/* make sure we know about any previous expansions by another
process */

if (tdb_oob(tdb, tdb->map_size + 1)) {
/* always make room for at least 10 more records */
}
length *= TDB_LEN_MULTIPLIER;

/* and round the database up to a multiple of TDB_PAGE_SIZE */
length = ((tdb->map_size + length + TDB_PAGE_SIZE) & ~(TDB_PAGE_SIZE - 1)) - tdb->map_size;

/* expand the file itself */
if (tdb->fd != -1) {
    lseek(tdb->fd, tdb->map_size + length - 1, SEEK_SET);
    if (write(tdb->fd, &b, 1) != 1) goto fail;
}

/* form a new freelist record */
offset = FREELIST_TOP;
rec.rec_len = length - sizeof(rec);
rec.magic = TDB_FREE_MAGIC;
if (ofs_read(tdb, offset, &rec.next) == -1) {
    goto fail;
}

#if HAVE_MMAP
if (tdb->fd != -1 && tdb->map_ptr) {
    munmap(tdb->map_ptr, tdb->map_size);
    tdb->map_ptr = NULL;
}
#endif

tdb->map_size += length;

    if (tdb->fd == -1) {
        tdb->map_ptr = realloc(tdb->map_ptr, tdb->map_size);
    }

/* write it out */
if (rec_write(tdb, tdb->map_size - length, &rec) == -1) {
    goto fail;
}

/* link it into the free list */
ptr = tdb->map_size - length;
if (ofs_write(tdb, offset, &ptr) == -1) goto fail;

#if HAVE_MMAP
if (tdb->fd != -1) {
    tdb->map_ptr = (void *)mmap(NULL, tdb->map_size,
    PROT_READ|PROT_WRITE,
    MAP_SHARED | MAP_FILE, tdb->fd, 0);
}
#endif
### tdb_allocate

```c
/* allocate some space from the free list. The offset returned points
 to a unconnected list_struct within the database with room for at
 least length bytes of total data

 0 is returned if the space could not be allocated
*/
static tdb_off tdb_allocate(TDB_CONTEXT *tdb, tdb_len length)
{
  tdb_off offset, rec_ptr, last_ptr;
  struct list_struct rec, lastrec, newrec;

  tdb_lock(tdb, -1);

  again:
  last_ptr = 0;
  offset = FREELIST_TOP;

  /* read in the freelist top */
  if (ofs_read(tdb, offset, &rec_ptr) == -1) {
    goto fail;
  }

  /* keep looking until we find a freelist record that is big
   enough */
  while (rec_ptr) {
    if (tdb_read(tdb, rec_ptr, (char *)&rec, sizeof(rec)) == -1) {
      goto fail;
    }

    if (rec.magic != TDB_FREE_MAGIC) {
      #if TDB_DEBUG
      printf("bad magic 0x%08x in free list\n", rec.magic);
      #endif
      goto fail;
    }

    if (rec.rec_len >= length) {
      /* found it - now possibly split it up */
      if (rec.rec_len > length + MIN_REC_SIZE) {
        /* split it up */
        #if TDB_DEBUG
        printf("splitting free list record\n", rec_ptr);
        #endif
        /* split the record */
        /* ... */
      }
    }
  }

  /* no space available */
  return 0;

  fail:
  tdb_unlock(tdb, -1);
  return -1;
}
```
length = (length + TDB_ALIGN) & ~(TDB_ALIGN-1);

newrec.rec_len = rec.rec_len - (sizeof(rec) + length);
newrec.next = rec.next;
newrec.magic = TDB_FREE_MAGIC;

rec.rec_len = length;
rec.next = rec_ptr + sizeof(rec) + rec.rec_len;

if (rec_write(tdb, rec.next, &newrec) == -1) {
    goto fail;
}

if (rec_write(tdb, rec_ptr, &rec) == -1) {
    goto fail;
}

/* remove it from the list */
if (last_ptr == 0) {
    offset = FREELIST_TOP;
}
else {
    lastrec.next = rec.next;
    if (rec_write(tdb, last_ptr, &lastrec) == -1) {
        goto fail;
    }
}

/* all done - return the new record offset */
 tdb_unlock(tdb, -1);
return rec_ptr;

/* move to the next record */
lastrec = rec;
last_ptr = rec_ptr;
rec_ptr = rec.next;

/* we didn't find enough space. See if we can expand the database and if we can then try again */
if (tdb_expand(tdb, length + sizeof(rec)) == 0) goto again;

fail:
#if TDB_DEBUG
printf("tdb_allocate failed for size %u\n", length);
#endif
tdb_unlock(tdb, -1);
return 0;
}

/* initialise a new database with a specified hash size */
static int tdb_new_database(TDB_CONTEXT *tdb, int hash_size)
{
    struct tdb_header header;
tdb_off offset;
int i, size = 0;
tdb_off buf[16];

    /* create the header */
    memset(&header, 0, sizeof(header));
    memcpy(header.magic_food, TDB_MAGIC_FOOD, strlen(TDB_MAGIC_FOOD)+1);
    header.version = TDB_VERSION;
    header.hash_size = hash_size;
lseek(tdb->fd, 0, SEEK_SET);
    ftruncate(tdb->fd, 0);
    if (tdb->fd != -1 && write(tdb->fd, &header, sizeof(header)) !=
sizeof(header)) {
        tdb->ecode = TDB_ERR_IO;
        return -1;
    } else size += sizeof(header);

    /* the freelist and hash pointers */
    offset = 0;
    memset(buf, 0, sizeof(buf));

    for (i=0; (hash_size+1)-i >= 16; i += 16) {
        if (tdb->fd != -1 && write(tdb->fd, &header, sizeof(buf)) !=
sizeof(buf)) {
            tdb->ecode = TDB_ERR_IO;
            return -1;
        } else size += sizeof(buf);
    }

    for (;i<hash_size+1; i++) {
        if (tdb->fd != -1 & write(tdb->fd, buf, sizeof(buf)) !=
sizeof(buf)) {
            tdb->ecode = TDB_ERR_IO;
            return -1;
        } else size += sizeof(buf);
    }

    for (;i<hash_size+1; i++) {
        if (tdb->fd != -1 & write(tdb->fd, buf, sizeof(tdb_off)) !=
sizeof(tdb_off)) {
            tdb->ecode = TDB_ERR_IO;
            return -1;
        } else size += sizeof(tdb_off);
    }

if (tdb->fd == -1) {
    tdb->map_ptr = malloc(size, 1);
    tdb->map_size = size;
    if (tdb->map_ptr == NULL) {
        tdb->ecode = TDB_ERR_IO;
        return -1;
    }
    memcpy(&tdb->header, &header, sizeof(header));
}

#if TDB_DEBUG
printf("initialised database of hash_size %u\n",
    hash_size);
#endif
return 0;
}

/* Returns 0 on fail.  On success, return offset of record, and fills
   in rec */
static tdb_off tdb_find(TDB_CONTEXT *tdb, TDB_DATA key, unsigned int hash,
    struct list_struct *rec)
{
    tdb_off offset, rec_ptr;

    /* find the top of the hash chain */
    offset = tdb_hash_top(tdb, hash);

    /* read in the hash top */
    if (ofs_read(tdb, offset, &rec_ptr) == -1)
        return 0;

    /* keep looking until we find the right record */
    while (rec_ptr) {
        if (rec_read(tdb, rec_ptr, rec) == -1)
            return 0;

        if (hash == rec->full_hash && key.dsize == rec->key_len) {
            char *k;
            /* a very likely hit - read the key */
            k = tdb_alloc_read(tdb, rec_ptr + sizeof(*rec),
                rec->key_len);

            if (!k)
                return 0;

            if (memcmp(key.dptr, k, key.dsize) == 0) {
                free(k);
                return 0;
            }
        }
    }
}
return rec_ptr;

free(k);

/* move to the next record */
rec_ptr = rec->next;
return 0;

/*
return an error string for the last tdb error
*/
char *tdb_error(TDB_CONTEXT *tdb)
{
int i;
static struct {
enum TDB_ERROR ecode;
char *estring;
} emap[] = {
{TDB_SUCCESS, "Success"},
{TDB_ERR_CORRUPT, "Corrupt database"},
{TDB_ERR_IO, "IO Error"},
{TDB_ERR_LOCK, "Locking error"},
{TDB_ERR_OOM, "Out of memory"},
{TDB_ERR_EXISTS, "Record exists"},
{-1, NULL}};  
if (tdb != NULL) {
for (i=0;emap[i].estring;i++) {
if (tdb->ecode == emap[i].ecode) return emap[i].estring;
}
} else {
return "Invalid tdb context";
}
return "Invalid error code";

/* update an entry in place - this only works if the new data size
is <= the old data size and the key exists.
on failure return -1
*/
int tdb_update(TDB_CONTEXT *tdb, TDB_DATA key, TDB_DATA dbuf)
{
unsigned hash;
struct list_struct rec;

return rec_ptr;
}
int ret = -1;

info("Enter: tdb_update.");
    if (tdb == NULL) {
#ifdef TDB_DEBUG
    printf("tdb_update() called with null context\n");
#endif
        return -1;
    }

/* find which hash bucket it is in */
hash = tdb_hash(&key);

tdb_lock(tdb, BUCKET(hash));
rec_ptr = tdb_find(tdb, key, hash, &rec);

if (!rec_ptr)
go to out;

/* must be long enough */
if (rec.rec_len < key.dsize + dbuf.dsize)
go to out;

if (tdb_write(tdb, rec_ptr + sizeof(rec) + rec.key_len,
            dbuf.dptr, dbuf.dsize) == -1)
go to out;

if (dbuf.dsize != rec.data_len) {
/* update size */
    rec.data_len = dbuf.dsize;
    ret = rec_write(tdb, rec_ptr, &rec);
} else
    ret = 0;

out:
    tdb_unlock(tdb, BUCKET(hash));
    return ret;
}

/* find an entry in the database given a key */
TDB_DATA tdb_fetch(TDB_CONTEXT *tdb, TDB_DATA key)
{
    unsigned hash;
    tdb_off rec_ptr;
    struct list_struct rec;
    TDB_DATA ret = null_data;

    if (tdb == NULL) {
        return -1;
    }

    /* find which hash bucket it is in */
    hash = tdb_hash(&key);

    tdb_lock(tdb, BUCKET(hash));
    rec_ptr = tdb_find(tdb, key, hash, &rec);

    if (!rec_ptr)
        goto out;

    /* must be long enough */
    if (rec.rec_len < key.dsize + dbuf.dsize)
        goto out;

    if (tdb_write(tdb, rec_ptr + sizeof(rec) + rec.key_len,
            dbuf.dptr, dbuf.dsize) == -1)
        goto out;

    if (dbuf.dsize != rec.data_len) {
        /* update size */
        rec.data_len = dbuf.dsize;
        ret = rec_write(tdb, rec_ptr, &rec);
    } else
        ret = 0;

out:
    tdb_unlock(tdb, BUCKET(hash));
    return ret;
}
/* find which hash bucket it is in */
hash = tdb_hash(&key);

tdb_lock(tdb, BUCKET(hash));
rec_ptr = tdb_find(tdb, key, hash, &rec);

if (rec_ptr) {
ret.dptr = tdb_alloc_read(tdb,
    rec_ptr + sizeof(rec) + rec.key_len,
    rec.data_len);
ret.dsize = rec.data_len;
}

tdb_unlock(tdb, BUCKET(hash));
return ret;
}

/* check if an entry in the database exists

note that 1 is returned if the key is found and 0 is returned if not found
this doesn't match the conventions in the rest of this module, but is
compatible with gdbm
*/
int tdb_exists(TDB_CONTEXT *tdb, TDB_DATA key)
{
unsigned hash;
tdb_off rec_ptr;
struct list_struct rec;

    if (tdb == NULL) {
    #ifdef TDB_DEBUG
        printf("tdb_exists() called with null context\n");
    #endif
        return 0;
    }

    /* find which hash bucket it is in */
    hash = tdb_hash(&key);

    tdb_lock(tdb, BUCKET(hash));
    rec_ptr = tdb_find(tdb, key, hash, &rec);
    tdb_unlock(tdb, BUCKET(hash));
/* traverse the entire database - calling fn(tdb, key, data) on each element. */
int tdb_traverse(TDB_CONTEXT *tdb, int (*fn)(TDB_CONTEXT *tdb, TDB_DATA key, TDB_DATA dbuf, void* state), void* state)
{
    int count = 0;
    unsigned h;
    tdb_off offset, rec_ptr;
    struct list_struct rec;
    char *data;
    TDB_DATA key, dbuf;

    if (tdb == NULL) {
        #ifdef TDB_DEBUG
            printf("tdb_traverse() called with null context\n");
        #endif
            return -1;
    }

    /* loop over all hash chains */
    for (h = 0; h < tdb->header.hash_size; h++) {
        tdb_lock(tdb, BUCKET(h));

        /* read in the hash top */
        offset = tdb_hash_top(tdb, h);
        if (ofs_read(tdb, offset, &rec_ptr) == -1) {
            goto fail;
        }

        /* traverse all records for this hash */
        while (rec_ptr) {
            if (rec_read(tdb, rec_ptr, &rec) == -1) {
                goto fail;
            }

            /* now read the full record */
            data = tdb_alloc_read(tdb, rec_ptr + sizeof(rec),
                rec.key_len + rec.data_len);
            if (!data) {
                goto fail;
            }

            if (fn(tdb, key, dbuf, state)) {
                /* a non-zero return value from fn() indicates that the traversal should stop */
                return count;
            }

            rec_ptr = tdb_hash_next(tdb, h, rec_ptr);

            /* return -1 on error or the record count traversed */
            return -1;
        }

        /* traverse the entire database - calling fn(tdb, key, data) on each element. */
        return rec_ptr != 0;
    }

    return -1;
}
key.dptr = data;
key.dsize = rec.key_len;
dbuf.dptr = data + rec.key_len;
dbuf.dsize = rec.data_len;
count++;

if (fn && fn(tdb, key,dbuf, state) != 0) {
    /* they want us to stop traversing */
    free(data);
    tdb_unlock(tdb, BUCKET(h));
    return count;
}

/* a miss - drat */
free(data);

/* move to the next record */
rec_ptr = rec.next;
}

tdb_unlock(tdb, BUCKET(h));

/* return the number traversed */
return count;

fail:
    tdb_unlock(tdb, BUCKET(h));
    return -1;
}

/* find the first entry in the database and return its key */
TDB_DATA tdb_firstkey(TDB_CONTEXT *tdb) {
    tdb_off offset, rec_ptr;
    struct list_struct rec;
    unsigned hash;
    TDB_DATA ret;

    if (tdb == NULL) {
        if (#ifdef TDB_DEBUG
            printf("tdb_firstkey() called with null context\n");
#endif
            return null_data;
        }

    /* look for a non-empty hash chain */
for (hash = 0, rec_ptr = 0;
     hash < tdb->header.hash_size;
     hash++) {
   /* find the top of the hash chain */
   offset = tdb_hash_top(tdb, hash);

tdb_lock(tdb, BUCKET(hash));

   /* read in the hash top */
   if (ofs_read(tdb, offset, &rec_ptr) == -1) {
     goto fail;
   }

   if (rec_ptr) break;

tdb_unlock(tdb, BUCKET(hash));
}

if (rec_ptr == 0) return null_data;

   /* we've found a non-empty chain, now read the record */
if (rec_read(tdb, rec_ptr, &rec) == -1) {
  goto fail;
}

   /* allocate and read the key space */
ret.dptr = tdb_alloc_read(tdb, rec_ptr + sizeof(rec), rec.key_len);
ret.dsize = rec.key_len;
 tdb_unlock(tdb, BUCKET(hash));
 return ret;

fail:
 tdb_unlock(tdb, BUCKET(hash));
 return null_data;
}

/* find the next entry in the database, returning its key */
TDB_DATA tdb_nextkey(TDB_CONTEXT *tdb, TDB_DATA key)
{
   unsigned hash, hbucket;
   tdb_off rec_ptr, offset;
   struct list_struct rec;
   TDB_DATA ret;

   if (tdb == NULL) {
      #ifdef TDB_DEBUG
      printf("tdb_nextkey() called with null context\n");
      #endif
      return null_data;
   }

   /* find the next entry in the database */
   if (tdb_next_key(tdb, &rec_ptr, &rec, &hash, &hbucket) == -1) {
      return null_data;
   }

   /* allocate and read the key space */
   if (tdb_alloc_read(tdb, rec_ptr, rec.key_len) == -1) {
      /* may fail if key length is too large */
      return null_data;
   }

   /* read the key */
   rec_key_read(tdb, rec_ptr, rec_key);

   return rec_key;
}

```
return null_data;
}

/* find which hash bucket it is in */
hash = tdb_hash(&key);
hbucket = BUCKET(hash);

tdb_lock(tdb, hbucket);
rec_ptr = tdb_find(tdb, key, hash, &rec);
if (rec_ptr) {
/* we want the next record after this one */
rec_ptr = rec.next;
}

/* not found or last in hash: look for next non-empty hash chain */
while (rec_ptr == 0) {
  tdb_unlock(tdb, hbucket);
  if (++hbucket >= tdb->header.hash_size - 1)
    return null_data;

  offset = tdb_hash_top(tdb, hbucket);
  tdb_lock(tdb, hbucket);
  /* read in the hash top */
  if (ofs_read(tdb, offset, &rec_ptr) == -1) {
    tdb_unlock(tdb, hbucket);
    return null_data;
  }
}

/* Read the record. */
if (rec_read(tdb, rec_ptr, &rec) == -1) {
  tdb_unlock(tdb, hbucket);
  return null_data;
}
/* allocate and read the key */
ret.dptr = tdb_alloc_read(tdb, rec_ptr + sizeof(rec), rec.key_len);
ret.dsize = rec.key_len;
  tdb_unlock(tdb, hbucket);

return ret;
}

/* delete an entry in the database given a key */
int tdb_delete(TDB_CONTEXT *tdb, TDB_DATA key)
{
  unsigned hash;
  tdb_off offset, rec_ptr, last_ptr;
struct list_struct rec, lastrec;
char *data = NULL;

if (tdb == NULL) {
#ifdef TDB_DEBUG
    printf("tdb_delete() called with null context\n");
#endif
    return -1;
}

/* find which hash bucket it is in */
hash = tdb_hash(&key);

tdb_lock(tdb, BUCKET(hash));

/* find the top of the hash chain */
offset = tdb_hash_top(tdb, hash);

/* read in the hash top */
if (ofs_read(tdb, offset, &rec_ptr) == -1) {
    goto fail;
}

/* keep looking until we find the right record */
while (rec_ptr) {
    if (rec_read(tdb, rec_ptr, &rec) == -1) {
        goto fail;
    }
    if (hash == rec.full_hash && key.dsize == rec.key_len) {
        /* a very likely hit - read the record and full key */
        data = tdb_alloc_read(tdb, rec_ptr + sizeof(rec),
                rec.key_len);
        if (!data) {
            goto fail;
        }
        if (memcmp(key.dptr, data, key.dsize) == 0) {
            /* a definite match - delete it */
            if (last_ptr == 0) {
                offset = tdb_hash_top(tdb, hash);
                if (ofs_write(tdb, offset, &rec.next) == -1) {
                    goto fail;
                }
            } else {
                lastrec.next = rec.next;
            }
        } else {
            goto fail;
        }
    } else {
        goto fail;
    }
}

fail: 

if (rec_write(tdb, last_ptr, &lastrec) == -1) { 
goto fail;
}
}
tdb_unlock(tdb, BUCKET(hash));
tdb_lock(tdb, -1);
/* and recover the space */
offset = FREELIST_TOP;
if (ofs_read(tdb, offset, &rec.next) == -1) {
goto fail2;
}
rec.magic = TDB_FREE_MAGIC;
if (rec_write(tdb, rec_ptr, &rec) == -1) {
goto fail2;
}
if (ofs_write(tdb, offset, &rec_ptr) == -1) {
goto fail2;
}

/* yipee - all done */
free(data);
tdb_unlock(tdb, -1);
return 0;
}

/* a miss - drat */
free(data);
data = NULL;
}

/* move to the next record */
last_ptr = rec_ptr;
lastrec = rec;
rec_ptr = rec.next;
}
fail:
if (data) free(data);
tdb_unlock(tdb, BUCKET(hash));
return -1;

fail2:
if (data) free(data);
tdb_unlock(tdb, -1);
return -1;
}
/* store an element in the database, replacing any existing element
   with the same key

   return 0 on success, -1 on failure
*/

int tdb_store(TDB_CONTEXT *tdb, TDB_DATA key, TDB_DATA dbuf, int flag)
{
    struct list_struct rec;
    unsigned hash;
    tdb_off rec_ptr, offset;
    char *p = NULL;

    info("Enter: tdb_store.");
    if (tdb == NULL) {
        #ifdef TDB_DEBUG
            printf("tdb_store() called with null context\n");
        #endif
        return -1;
    }

    /* find which hash bucket it is in */
    hash = tdb_hash(&key);

    /* check for it existing */
    if (flag == TDB_INSERT && tdb_exists(tdb, key)) {
        tdb->ecode = TDB_ERR_EXISTS;
        return -1;
    }

    info("tdb_store: calling tdb_update.");
    /* first try in-place update */
    if (flag != TDB_INSERT && tdb_update(tdb, key, dbuf) == 0) {
        return 0;
    }

    rec_ptr = tdb_allocate(tdb, key.dsize + dbuf.dsize);
    if (rec_ptr == 0) {
        return -1;
    }

    tdb_lock(tdb, BUCKET(hash));

    /* delete any existing record - if it doesn't exist we don't care */
    if (flag != TDB_INSERT) {
        tdb_delete(tdb, key);
    }

    /* read the newly created record */
if (tdb_read(tdb, rec_ptr, (char *)&rec, sizeof(rec)) == -1) {
    goto fail;
}

if (rec.magic != TDB_FREE_MAGIC) goto fail;

/* find the top of the hash chain */
offset = tdb_hash_top(tdb, hash);

/* read in the hash top directly into our next pointer */
if (ofs_read(tdb, offset, &rec.next) == -1) {
    goto fail;
}

rec.key_len = key.dsize;
rec.data_len = dbuf.dsize;
rec.full_hash = hash;
rec.magic = TDB_MAGIC;

p = (char *)malloc(sizeof(rec) + key.dsize + dbuf.dsize);
if (!p) {
    tdb->ecode = TDB_ERR_OOM;
    goto fail;
}

memcpy(p, &rec, sizeof(rec));
memcpy(p+sizeof(rec), key.dptr, key.dsize);
memcpy(p+sizeof(rec)+key.dsize, dbuf.dptr, dbuf.dsize);

if (tdb_write(tdb, rec_ptr, p, sizeof(rec)+key.dsize+dbuf.dsize) == -1)
    goto fail;

free(p);
p = NULL;

/* and point the top of the hash chain at it */
if (ofs_write(tdb, offset, &rec_ptr) == -1) goto fail;

tdb_unlock(tdb, BUCKET(hash));
return 0;

fail:
#if TDB_DEBUG
    printf("store failed for hash 0x%08x in bucket %u\n", hash, BUCKET(hash));
#endif
if (p) free(p);
tdb_unlock(tdb, BUCKET(hash));
return -1;
/* open the database, creating it if necessary

The open_flags and mode are passed straight to the open call on the database file. A flags value of O_WRONLY is invalid

The hash size is advisory, use zero for a default value.

return is NULL on error
*/

TDB_CONTEXT *tdb_open(char *name, int hash_size, int tdb_flags,
                   int open_flags, mode_t mode)
{
    TDB_CONTEXT tdb, *ret;
    struct stat st;

    memset(&tdb, 0, sizeof(tdb));

    tdb.fd = -1;
    tdb.name = NULL;
    tdb.map_ptr = NULL;

    if ((open_flags & O_ACCMODE) == O_WRONLY) {
        goto fail;
    }

    if (hash_size == 0) hash_size = DEFAULT_HASH_SIZE;

    tdb.read_only = ((open_flags & O_ACCMODE) == O_RDONLY);

    if (name != NULL) {
        tdb.fd = open(name, open_flags, mode);
        if (tdb.fd == -1) {
            goto fail;
        }
    }

    /* ensure there is only one process initialising at once */
    tdb_brlock(&tdb, GLOBAL_LOCK, LOCK_SET, F_WRLCK, F_SETLKW);

    if (tdb_flags & TDB_CLEAR_IF_FIRST) {
        /* we need to zero the database if we are the only one with it open */
        if (tdb_brlock(&tdb, ACTIVE_LOCK, LOCK_SET, F_WRLCK, F_SETLK) == 0) {
            ftruncate(tdb.fd, 0);
            tdb_brlock(&tdb, ACTIVE_LOCK, LOCK_CLEAR, F_WRLCK, F_SETLK);
        }
    }

    return &tdb;
}

/* ensure there is only one process initialising at once */
tdb_brlock(&tdb, GLOBAL_LOCK, LOCK_SET, F_WRLCK, F_SETLKW);

if (tdb.flags & TDB_CLEAR_IF_FIRST) {
    /* we need to zero the database if we are the only one with it open */
    if (tdb_brlock(&tdb, ACTIVE_LOCK, LOCK_SET, F_WRLCK, F_SETLK) == 0) {
        ftruncate(tdb.fd, 0);
        tdb_brlock(&tdb, ACTIVE_LOCK, LOCK_CLEAR, F_WRLCK, F_SETLK);
    }

    return &tdb;
}

/* ensure there is only one process initialising at once */
tdb_brlock(&tdb, GLOBAL_LOCK, LOCK_SET, F_WRLCK, F_SETLKW);

if (tdb.flags & TDB_CLEAR_IF_FIRST) {
    /* we need to zero the database if we are the only one with it open */
    if (tdb_brlock(&tdb, ACTIVE_LOCK, LOCK_SET, F_WRLCK, F_SETLK) == 0) {
        ftruncate(tdb.fd, 0);
        tdb_brlock(&tdb, ACTIVE_LOCK, LOCK_CLEAR, F_WRLCK, F_SETLK);
    }

    return &tdb;
}
/* leave this lock in place */
tdb_brlock(&tdb, ACTIVE_LOCK, LOCK_SET, F_RDLCK, F_SETLKW);

if (read(tdb.fd, &tdb.header, sizeof(tdb.header)) != sizeof(tdb.header) ||
    strcmp(tdb.header.magic_food, TDB_MAGIC_FOOD) != 0 ||
    tdb.header.version != TDB_VERSION) {
    /* its not a valid database - possibly initialise it */
    if (!(open_flags & O_CREAT)) {
        goto fail;
    }
    if (tdb_new_database(&tdb, hash_size) == -1) goto fail;
}
lseek(tdb.fd, 0, SEEK_SET);
if (tdb.fd != -1 && read(tdb.fd, &tdb.header,
        sizeof(tdb.header)) !=
        sizeof(tdb.header))
    goto fail;
}

if (tdb.fd != -1) {
    fstat(tdb.fd, &st);

    /* map the database and fill in the return structure */
    tdb.name = (char *)strdup(name);
    tdb.map_size = st.st_size;
}

    tdb.locked = (int *)calloc(tdb.header.hash_size+1,
                        sizeof(tdb.locked[0]));
    if (!tdb.locked) {
        goto fail;
    }

#if HAVE_MMAP
    if (tdb.fd != -1) {
        tdb.map_ptr = (void *)mmap(NULL, st.st_size,
                        tdb.read_only? PROT_READ : PROT_READ|PROT_WRITE,
                        MAP_SHARED | MAP_FILE, tdb.fd, 0);
    }
#endif

ret = (TDB_CONTEXT *)malloc(sizeof(tdb));
if (!ret) goto fail;

*ret = tdb;
# if TDB_DEBUG
printf("mapped database of hash_size \%u map_size=\%u\n", 
    hash_size, tdb.map_size);
#endif

tdb_brlock(&tdb, GLOBAL_LOCK, LOCK_CLEAR, F_WRLCK, F_SETLKW);
return ret;

fail:
    if (tdb.name) free(tdb.name);
    if (tdb.fd != -1) close(tdb.fd);
    if (tdb.map_ptr) munmap(tdb.map_ptr, tdb.map_size);

return NULL;
}

/* close a database */
int tdb_close(TDB_CONTEXT *tdb)
{
    if (!tdb) return -1;

    if (tdb->name) free(tdb->name);
    if (tdb->fd != -1) close(tdb->fd);
    if (tdb->locked) free(tdb->locked);

    if (tdb->map_ptr) {
        if (tdb->fd != -1) {
            munmap(tdb->map_ptr, tdb->map_size);
        } else {
            free(tdb->map_ptr);
        }
    }

    memset(tdb, 0, sizeof(*tdb));
    free(tdb);

    return 0;
}

/* lock the database. If we already have it locked then don't do anything */
int tdb_writelock(TDB_CONTEXT *tdb)
{
    if (tdb == NULL) {
        #ifdef TDB_DEBUG
        printf("tdb_writelock() called with null context\n");
        #endif
        return -1;
    }

    if (tdb->name) free(tdb->name);
    if (tdb->fd != -1) close(tdb->fd);
    if (tdb->locked) free(tdb->locked);

    if (tdb->map_ptr) {
        if (tdb->fd != -1) {
            munmap(tdb->map_ptr, tdb->map_size);
        } else {
            free(tdb->map_ptr);
        }
    }

    memset(tdb, 0, sizeof(*tdb));
    free(tdb);

    return 0;
}
return tdb_lock(tdb, -1);
}

/* unlock the database. */
int tdb_writeunlock(TDB_CONTEXT *tdb)
{
    if (tdb == NULL) {
        #ifdef TDB_DEBUG
            printf("tdb_writeunlock() called with null context\n");
        #endif
            return -1;
    }

    return tdb_unlock(tdb, -1);
}

/* lock one hash chain. This is meant to be used to reduce locking
   contention - it cannot guarantee how many records will be locked */
int tdb_lockchain(TDB_CONTEXT *tdb, TDB_DATA key)
{
    if (tdb == NULL) {
        #ifdef TDB_DEBUG
            printf("tdb_lockchain() called with null context\n");
        #endif
            return -1;
    }

    return tdb_lock(tdb, BUCKET(tdb_hash(&key)));
}

/* unlock one hash chain */
int tdb_unlockchain(TDB_CONTEXT *tdb, TDB_DATA key)
{
    if (tdb == NULL) {
        #ifdef TDB_DEBUG
            printf("tdb_unlockchain() called with null context\n");
        #endif
            return -1;
    }

    return tdb_unlock(tdb, BUCKET(tdb_hash(&key)));
}

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version 1.0.4, Jul 24th, 1996.
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*/
/
* Definitions for tcp compression routines.
* 
* $Id: slcompress.h,v 1.4 1994/09/21 06:50:08 paulus Exp $
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* 
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Version 2, June 1991

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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 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
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1.138 python2 2.7.10

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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 (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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#!/bin/sh

# Script to translate LDFLAGS into a form suitable for use with libtool.

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1.148 sblim-sfcb-1.2.4 1.2.4

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1.149 sblim-sfcb-1.3.3 1.3.3

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1.150 sblim-sfcc-2.0.2 2.0.2

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1.151 setmixer 27DEC94ds1

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Got bored resetting soundcard manually after every reboot? Here is a small utility which can help you to avoid that. The whole source is setmixer.c.

The program and its manual page are released under terms of GPL.

Enjoy,
Michal Jaegermann
michal@ellpspace.math.ualberta.ca
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1.168 U-Boot 1.1.3
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D: EEPROM Speedup, SXNI855T port

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D: Port for the ModNET50 Board, NET+50 CPU Port
W: http://www.imms.de

N: Daniel Engstr?m
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D: x86 port, Support for sc520_cdp board

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D: Support for Interphase 4539 T1/E1/J1 PMC, PN62, CCM, SCM boards
N: Peter Figuli  
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D: Support for WEP EP250 (PXA) board

N: Thomas Frieden  
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D: Support for AmigaOne

N: Frank Gottschling  
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D: Support for ELTEC MHPC/BAB7xx/ELPPC boards, cfb-console, i8042, SMI LynxEM  
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N: Marius Groeger  
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D: MBX Support, board specific function interface, EST SBC8260 support; initial support for StrongARM (LART), ARM720TDMI (implementa A7)  
W: www.elinos.com

N: Kirk Haderlie  
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D: Added TFTP to 8xxrom (-> 0.3.1)

N: Chris Hallinan  
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D: DHCP Support

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D: Port to Walnut405 board

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D: CPU Support for MPC 75x; board support for Eltec BAB750 [obsolete!]

N: August Hoeraendl  
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D: Support for the logodl board (PXA2xx)

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D: Port to the Galileo Evaluation Board, and the MPC74xx cpu series.  
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H: Stuart Hughes  
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D: Port to MPC8260ADS board

H: Rich Ireland
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D: FPGA device configuration driver

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D: Support for Samsung ARM920T S3C2400X, ARM920T "TRAB"
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D: Initial 8260 support; GDB support
D: Port to Cogent+Hymod boards; Hymod Board Database

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D: Port to the RPXlite_DW board

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D: Port to Windriver ppmc8260 board

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D: Support for KVME080 board

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D: Port to Motorola Sandpoint 3 (MPC8240)

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N: Prakash Kumar
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D: Support for Intrinsyc CERF PXA250 board.

N: Thomas Lange
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D: Support for GTH, GTH2 and dbau1x00 boards; lots of PCMCIA fixes

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D: Support for SSV ADNP/ESC1 (Nios Cyclone)
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D: Support for DOS partitions

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D: FADSROM, the grandfather of all of this
D: Support for Silicon Turnkey eXpress XTe

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D: EST SBC8260 support

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D: Support for Altera Nios-II CPU  
D: Support for Nios Cyclone Development Kit (DK-1C20)  
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D: Support for PIP405 board
D: Support for MIP405 board

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D: OMAP730 P2 board support

N: Bill Pitts
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D: BedBug embedded debugger code

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D: boot support for RTEMS

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D: Port to Logic Zoom LH7A40x SDK board(s)

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D: Author of LiMon-1.4.2, which contributed some ideas

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D: Support for AMCC PPC440GX, XES XPedite1000 440GX PrPMC board. AMCC 440gx Ref Platform (Ocotea)

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D: Support for csb226, logodl and innokom boards (PXA2xx)

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However, I (Ben) reworked the MAC-VLAN code extensively, including re-writing all of the locking code. So, any complaints & bugs should come to me.

--Ben Greear (greearb@candelatech.com)
http://www.candelatech.com/~greear
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* $Id: gpl-template.txt 43536 2012-06-28 22:56:06Z darkjames $
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1.180 xinetd 2.3.15

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*
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* Yahoo Global Object
* YUI Loader
* YUI Test
* Reset CSS
* Base CSS
* Fonts CSS
* Grids CSS
* YUI Tools
* YUI Compressor
* Yahoo! Developer Network
* Home
* About Us
* Developer Network Blog
* YDN FAQ
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yui/examples/treeview/assets/js/json.js:
/*
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== yui-2.6.0/yui/assets/dpSyntaxHighlighter.js ==

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1.184 zlib 1.2.3.3 :2

1.184.1 Available under license :

This is the pre-packaged Debian Linux version of the zlib compression
library. It was packaged by Michael Alan Dorman <mdorman@debian.org>
from sources originally retrieved from ftp.uu.net in the directory
/pub/archiving/zip/zlib as the file zlib-1.0.4.tar.gz.

There is a homepage at http://www.gzip.org/zlib/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate
and zlib specifications were written by Peter Deutsch. Thanks to all the
people who reported problems and suggested various improvements in zlib;
they are too numerous to cite here.

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1.185 zlib 1.2.1.1-2.0.2 :0703267

1.185.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.1.1, January 9th, 2004

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1.186 zlib 1.2.7

1.186.1 Available under license :

http://www.zlib.net/zlib_license.html

zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.7, May 2nd, 2012

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1.187 zlib 1.2.1.2 :1.2
1.187.1 Available under license : version 1.2.3, July 18th, 2005

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
1.188 Zlib 1.2.3

1.188.1 Available under license:

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.3 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format). These documents are also available in other formats from ftp://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html

All functions of the compression library are documented in the file zlib.h (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file example.c which also tests that the library is working correctly. Another example is given in the file minigzip.c. The compression library itself is composed of all source files except example.c and minigzip.c.

To compile all files and run the test program, follow the instructions given at the top of Makefile. In short "make test; make install" should work for most machines. For Unix: ".configure; make test; make install". For MSDOS, use one of the special makefiles such as Makefile.msc. For VMS, use make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant <info@winimage.com> for the Windows DLL version. The zlib home page is http://www.zlib.org or http://www.gzip.org/zlib/ Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://www.gzip.org/zlib/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available in http://dogma.net/markn/articles/zlibtool/zlibtool.htm

The changes made in version 1.2.3 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory "contrib".

A Java implementation of zlib is available in the Java Development Kit http://java.sun.com/j2se/1.4.2/docs/api/java/util/zip/package-summary.html

See the zlib home page http://www.zlib.org for details.
A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is in the CPAN (Comprehensive Perl Archive Network) sites
http://www.cpan.org/modules/by-module/Compress/

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see
http://www.python.org/doc/lib/module-zlib.html

A zlib binding for TCL written by Andreas Kupries <a.kupries@westend.com> is available at http://www.oche.de/~akupries/soft/trf/trf_zip.html

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
-O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS, BEOS and by some Mac compilers.

- For PalmOs, see http://palmzlib.sourceforge.net/

- When building a shared, i.e. dynamic library on Mac OS X, the library must be installed before testing (do "make install" before "make test"), since the library location is specified in the library.

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