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1.3 apache-log4j 1.2.15 :DUPLICATE

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

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

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

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

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

   Gnomovision version 69, Copyright (C) 19yy name of author
   Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
   This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

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

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

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   Version 2, June 1991

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The Free Software Foundation has exempted Bash from the requirement of Paragraph 2c of the General Public License. This is to say, there is no requirement for Bash to print a notice when it is started interactively in the usual way. We made this exception because users and standards expect shells not to print such messages. This exception applies to any program that serves as a shell and that is based primarily on Bash as opposed to other GNU software.

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This is free software, and you are welcome to redistribute it
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mouse-clicks or menu items--whatever suits your program.

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

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The file ifs-posix.tests is Copyright (C) 2005 Glen Fowler.
From spcencdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
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.
"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
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
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1.11 busybox 1.22.1

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jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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   minibz2
   libbz2.dll test program.
   by Yoshioka Tsuneo (tsuneo@rr.ijj4u.or.jp)
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   usage: minibz2 [-d] [-[1,2,..9]] [[srcfilename] destfilename]
*/

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Julian Seward, jseward@bzip.org
bzip2/libbz2 version 1.0.5 of 10 December 2007

1.18 cairo 1.4.14 :1.fc8

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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

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Open Source Used In Cisco FXOS 2.3(1)

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

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

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

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

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

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

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

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

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everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

This library is free software: you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

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

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

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

That's all there is to it!

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------
Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

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

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

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> >=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

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

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of library to dictact to application writes what license they should be using.

thus LGPL-2.1 enters to fill this void.

=2Dmike

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

-- Nathan

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

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML  
On Monday 28 January 2008, Nalin Dahyabhai wrote:
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

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

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

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

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

--------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

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

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

-----------------------------------------------------------
From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSV(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSV(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu ([131.151.1.43]) by scanin-ipv5s.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
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Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
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-a

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1.26 cyrus-sasl 2.1.19 :14

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1.27 dbus 1.8.2 :r0.0

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Theodore Ts'o
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Gadi Oxman, August 1995

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

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

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include
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Appendix: How to Apply These Terms to Your New Programs

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

<one line to give the program's name and a brief idea of what it does.>
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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 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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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

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

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

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

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1.35 e2fsprogs 1.41.3 :1.0.0

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Theodore Ts'o
23-June-2007

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

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

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

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

Preamble

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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.

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

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

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

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contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
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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.)

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1.53 glibc 2.7

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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1.54 glibc 2.20
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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.)

@end enumerate

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

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

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<link rel="stylesheet" type="text/css" href="./style/css/prettify.css" />
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<body id="manual-page" class="no-sidebar">
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 */
```

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

/*
 *
 */

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For the test\zb.c 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)
Michael Campanella (campanella@stevms.enet.dec.com)

/*

For the expat xml parser component:

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

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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)

*/

For the expat xml parser component:

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1.67
httpd/modules/mappers/mod_imagemap.c
2.4.16

1.67.1 Available under license:

<?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" /><link rel="stylesheet" type="text/css" href="./style/css/prettify.css" />
<script src="./style/scripts/prettify.min.js" type="text/javascript"></script>
<link href="./images/favicon.ico" rel="shortcut icon" />
<body id="manual-page" class="no-sidebar">
<div id="page-header">
<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>
<div id="path">
<p><span>Available Languages: </span><a href="./en/license.html" title="English">en</a></p>
</div>
</div>
</body>
</html>
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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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Software Development Group
National Center for Supercomputing Applications
University of Illinois at Urbana-Champaign
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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)
Michael Campanella (campanella@stevms.enet.dec.com)

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For the server\util_md5.c component:

/**********************************************************
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 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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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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1.71 httpd rsa-dsi-md5-portions 2.4.12

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* ____________________________________________
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/************************************************************************
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 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
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 */
/*
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 * --------------------------------------------------------------------------------
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#
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# This comes from X11R5 (mit/util/scripts/install.sh).
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#

For the test\zb.c component:

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

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

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/
For the expat xml parser component:

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<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<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>
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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>');
  }
})(window, document);</script>
var s = d.createElement('script');
s.type = 'text/javascript';
s.async = true;
s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' + comments_identifier;
(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
}
else {
  d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>);
}
})(window, document);
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/*************************************************************/
* NCSA HTTPd Server
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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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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var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
    if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
        d.write('<div id="comments_thread"></div>);
        var s = d.createElement('script');
        s.type = 'text/javascript';
        s.async = true;
        s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' + comments_identifier;
        (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
    } else {
        d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>);
    }
})(window, document);

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*/

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/************************************************************************
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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*
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*/
/*
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* *-------------------------------------------------------------------------
*/

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# This comes from X11R5 (mit/util/scripts/install.sh).
#
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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)

/*

For the expat xml parser component:

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1.74 httpd/zeusbench-portions 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
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<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
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<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>
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<body id="manual-page" class="no-sidebar">

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*/

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#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
#
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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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<?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" />
</head>
<body id="manual-page" class="no-sidebar">
<p class="apache">Apache HTTP Server Version 2.4</p>
<div class="up"><a href="./"><img title="<" alt="<" src="./images/left.gif" /></a></div>
<h1>The Apache License, Version 2.0</h1>
</div>
<p class="centered">Apache License<br />
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National Center for Supercomputing Applications
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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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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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1.85 libcap 2.22 :r5

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

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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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1.99 libusb-compat 0.1.5 :r0.0

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* *
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* 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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<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 SRevision: 1.1 $ SDate: 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_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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1.105 Linux Kernel 3.4.30
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for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkruufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
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)

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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1.116 module-init-tools 3.2.2

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1.122 ncurses 5.9 :r13.1

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1.123 net-snmp 5.1

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1.124 net-tools 1.60

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---

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*
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*
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1.139 openwsman-core-1.5.9 1.5.9
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1.140 pam 0.76-4.0.3 :0703267

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1.141 PAM 0.99.10.0

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1.142 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
=====

- 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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=======

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The OpenType code in pango/opentype is derived from the FreeType project (http://www.freetype.org) and is dual-licensed under the GNU General Public License and the FreeType license. See see pango/opentype/FT-license.txt for full details of the FreeType license.

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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otaylor@redhat.com

Behdad Esfahbod
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***************************************************************************/

1.144 pcre 8.36 :26-September-2014
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Written by: Philip Hazel
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Email domain: cam.ac.uk

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#!/perl

copyright.t

copyright.t

copyright.t

copyright.t

Open Source Used In Cisco FXOS 2.3(1)
Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config:
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) { 
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = ";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\b(\d{4,})\b/s
  or die "Year not found in README copyright message \$copyright_msg";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b(\d{4,})\b/i
    or die "Copyright statement not found in perl -v output \$output";

  $year;
}

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
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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];
          } char 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 functions 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 */
            if (tdb->read_only) return -1;

            /*...*/
    } /* tdb_brlock */
*/
fl.l_type = set==LOCK_SET?rw_type:F_UNLCK;
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;

/* 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
        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;
        }
    }

    return 0;
}
/* 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);
#endif
        tdb->ecode = TDB_ERR_CORRUPT;
        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 */
    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_unlock(tdb, -1);
    return 0;
fail:
        tdb_unlock(tdb, -1);
        return -1;
    }

/* 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) {
                    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 */
//db 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:
#endif
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(header)) !=
            sizeof(buf)) {
            tdb->ecode = TDB_ERR_IO;
            return -1;
        } else size += sizeof(header);
    }

    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);
    }

    if (tdb->fd == -1) {
        tdb->map_ptr = calloc(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 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;
tdb_off 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)
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 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) {
        #ifdef TDB_DEBUG
        printf("tdb_fetch() called with null context\n");
        #endif
        return -1;
    }

    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;
}
return null_data;

/* 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;
}

dtb_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));

    return rec_ptr != 0;
}
/* traverse the entire database - calling fn(tdb, key, data) on each element. 
return -1 on error or the record count traversed 
if fn is NULL then it is not called 
a non-zero return value from fn() indicates that the traversal should stop */

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;
            }

            key.dptr = data;
            key.dsize = rec.key_len;
            count = fn(tdb, key, data);

            if (count) {
                goto fail;
            }

            rec_ptr = rec_next(tdb, rec_ptr);
        }
    }

    return count;
ail:
    // Error handling...
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) {
#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;
  }

  ret.dptr = tdb_fetch(tdb, rec_ptr, &rec);
  ret.dsize = rec.key_len;
  tdb_unlock(tdb, BUCKET(hash));
  return ret;

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

    last_ptr = 0;

    /* 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;
                    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);

    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_SETLKW) == 0) {
            ftruncate(tdb.fd, 0);
            tdb_brlock(&tdb, ACTIVE_LOCK, LOCK_CLEAR, F_WRLCK, F_SETLKW);
        }
    }
}
/* 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",
        tdb.header.hash_size, tdb.map_size);

Open Source Used In Cisco FXOS 2.3(1)
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\n");
        #endif
        return -1;
    }

    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)));
}

/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.0.4, Jul 24th, 1996.

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Jean-loup Gailly       Mark Adler
gzip@prep.ai.mit.edu    madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/
/* From: if_pppvar.h,v 1.2 1995/06/12 11:36:51 paulus Exp */
/*
* if_pppvar.h - private structures and declarations for PPP.
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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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Van Jacobson (van@helios.ee.lbl.gov), Dec 31, 1989:
- Initial distribution.

ppp_ahdlc.c - STREAMS module for doing PPP asynchronous HDLC.

Re-written by Adi Masputra <adi.masputra@sun.com>, based on
the original ppp_ahdlc.c

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$Id: ppp_ahdlc.c,v 1.16 2000/03/06 19:38:12 masputra Exp $
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$Id: eui64.c,v 1.5 2000/08/05 06:46:47 paulus Exp $
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

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

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entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Library
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medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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1.152 procps 3.2.5-6.0 :0703267

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Mersenne Twister
----------------

The :mod:`random` module includes code based on a download from http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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The source for the :mod:`fpectl` module includes the following notice::
MD5 message digest algorithm

The source code for the :mod:`md5` module contains the following notice::

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

XML Remote Procedure Calls
--------------------------

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test_epoll
----------

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Select kqueue

-------------

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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.3, July 18th, 2005

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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
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#Table format: Format A
#Date: 2005-10-25
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Data was extracted from the Unicode 5.1 UnicodeData.txt file.

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IA64/unix Foreign Function Interface

Original author: Hans Boehm, HP Labs

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----------------------------------------------------------------------- */
/* *-----------------------------------------------------------------------
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M32R Foreign Function Interface

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----------------------------------------------------------------------- */
/* Random objects */

/* *-----------------------------------------------------------------------
The code in this module was based on a download from:

It was modified in 2002 by Raymond Hettinger as follows:

* the principal computational lines untouched except for tabbing.

* renamed genrand_res53() to random_random() and wrapped
in python calling/return code.

* genrand_int32() and the helper functions, init_genrand()
and init_by_array(), were declared static, wrapped in
Python calling/return code. also, their global data
references were replaced with structure references.

* unused functions from the original were deleted.
new, original C python code was added to implement the
Random() interface.

The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp
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#---------------------------------------------------------------
#
# Module Name: dbShelve.py
#
# Description: A reimplementation of the standard shelve.py that
# forces the use of cPickle, and DB.
#
# Creation Date: 11/3/97 3:39:04PM
#
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#
# --  Gregory P. Smith <greg@krypto.org>
#
# $Id: test_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea $
# Original version written by Greg Stein (gstein@lyra.org)
# and Bill Tutt (rassilon@lima.mudlib.org)
# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
#
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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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<th>Owner</th>
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2.1.2  2.1.1       2002   PSF   yes
2.1.3  2.1.2       2002   PSF   yes
2.2 and above 2.1.1   2001-now  PSF   yes

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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1.162 rsync 2.6.9

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### 1.165 sblim-sfcb-1.2.4 1.2.4

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The of the start-stop-daemon

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1.181 tar 1.27.1 :r0.0

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1.192 U-Boot 1.1.3

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D: BedBug port to 603e core (MPC82xx). Code for enhanced memory test.

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D: Reiserfs support  
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D: 8xxrom-0.3.0

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D: Port to Vibren PXA255 IDP platform  
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N: Rick Bronson  
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D: Atmel AT91RM9200DK and NAND support
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D: Extensions to 8xxrom-0.3.0

N: Oliver Brown
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D: Port to the gw8260 board

N: Curt Brune
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D: Added support for Samsung S3C4510B CPU (ARM7tdmi based SoC)
D: Added support for ESPD-Inc. EVB4510 Board
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D: Board ports for ADS GraphicsClient+ and Intel Assabet

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D: threads / scheduler example code

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D: FLAGA DM Support
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D: U-Boot initial version, continuing maintenance, ARMBoot merge  
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D: Port to the MOUSSE board

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D: EEPROM Speedup, SXNI855T port

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D: Port for the ModNET50 Board, NET+50 CPU Port  
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D: x86 port, Support for sc520_cdp board

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D: Support for WEP EP250 (PXA) board

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D: Support for AmigaOne

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

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D: DHCP Support

N: Anne-Sophie Harnois
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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!]

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D: Support for the logodl board (PXA2xx)

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D: Port to MPC8260ADS board

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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 Windriver ppmc8260 board

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D: Support for KVME080 board

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D: Support for DOS partitions

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D: Support for Silicon Turnkey eXpress XTe

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D: Support for Altera Nios-II CPU
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D: Support for PIP405 board
D: Support for MIP405 board

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D: BedBug embedded debugger code

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D: Support for the Wind River sbc405, sbc8240 board
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D: AMCC PPC401/403/405GP Support; Windows environment support

N: Erwin Rol
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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)

N: Paolo Scaffardi
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D: FADS823 configuration, MPC823 video support, I2C, wireless keyboard, lots more

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N: Kurt Stremerch
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D: Support for MUSENKI board

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D: Support for Motorola 85xx(PowerQUICC III) chip, MPC8540ADS and MPC8560ADS boards.

N: John Zhan
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1.208 xinetd 2.3.15

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 *
 * This file is just holds extra declarations used during development.
 * Most of these are from kernel includes placed here so we can use them in
 * applications.
 *
 * $Id: devextras.h,v 1.2 2005/08/11 02:37:49 marty Exp $
 *
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1.210 yui 2.6.0

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yui/examples/treeview/assets/js/json.js:
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yui/build/charts/charts-experimental-min.js
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yui/build/uploader/uploader-experimental-min.js
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yui-2.6.0/yui/as-src/charts/com/adobe/serialization/json/JSONDecoder.as
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=> yui-2.6.0/yui/assets/dpSyntaxHighlighter.js <=
/**
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 * Version 1.3.0
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** yui-2.6.0/yui/examples/treeview/assets/js/dpSyntaxHighlighter.js <=

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1.212 Zlib 1.2.3

1.212.1 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.

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. 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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1.213 zlib 1.2.1.2 :1.2

1.213.1 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).

1.214 zlib 1.2.3.3 :2

1.214.1 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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1.215 zlib 1.2.7

1.215.1 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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1.216 zlib 1.2.1.1-2.0.2 :0703267

1.216.1 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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1.217 zlib 1.2.8 1.2.8

1.217.1 Available under license :

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