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```
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```

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

For the server\util_md5.c component:

```
/*************************************************************************
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*************************************************************************
*
* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
```

```
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install - install a program, script, or datafile
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Written by: Philip Hazel <ph10@cam.ac.uk>

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

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

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

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

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

an offer, in accord with Subsection b above.)

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

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

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

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

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

This program is free software; you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

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

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

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

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

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

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

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

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

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

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

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of this license document, but changing it is not allowed.

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

Preamble

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

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

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

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

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

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

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
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want its recipients to know that what they have is not the original
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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

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

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

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

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

2. You may modify your copy or copies of the Library or any portion

of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

That's all there is to it!
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

```
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_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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1.11 GCC Compiler ,GCC C++ run-time library and GCC STL - libs 3.2.1

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1.24 Strace 4.5.18

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1.25 SwingX 1.0

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1.32 Zlib 1.2.3

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ZLIB DATA COMPRESSION LIBRARY

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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 availlable 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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1.33 bash 3.2

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1.34 bash 2.05b.1.0.2. :0703267

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1.38 expat 2.0.1

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1.39 gawk 3.1.3 :2.0.0.0703267

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1.40 glib 2.8.3-1.0.1 :0703267

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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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1.48 kernel 2.6.10 :ucs-cmc

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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 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $
```

```
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_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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```
Index: linux-2.6.10/drivers/mmc/mmc.c
===================================================================
--- linux-2.6.10.orig/drivers/mmc/mmc.c
+++ linux-2.6.10/drivers/mmc/mmc.c
@@ -2,6 +2,8 @@
 *  linux/drivers/mmc/mmc.c
 *
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 *
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Index: linux-2.6.10/mvl_patches/pro-0761.c
===================================================================
--- /dev/null
+++ linux-2.6.10/mvl_patches/pro-0761.c
@@ -0,0 +1,16 @@
+/*
+ * Author: MontaVista Software, Inc. <source@mvista.com>
+ *
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+ */
```

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*
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1.61 omcclp-0.5 0.5

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1.63 openldap 2.2.20

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```
 * @version 3.0 (December 2000)
 *
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 *
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1.65 openssl-fips-1.2.3 1.2.3

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1.67 openwsman-core-1.5.9 1.5.9

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***/

1.70 pcre 7.9

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THE BASIC LIBRARY FUNCTIONS

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University of Cambridge Computing Service,
Cambridge, England.

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1.71 pppd 2.4.1 :1.0

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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;   /* for in memory tdb */

 if (tdb->read_only) return -1;

 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;
#endif
}

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

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

   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;
   }
  }

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

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

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

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

/* initialise a new database with a specified hash size */
static int tdb_new_database(TDB_CONTEXT *tdb, int hash_size)
{
 struct tdb_header header;
```

```
tdb_off offset;
int i, size = 0;
tdb_off buf[16];

    /* create the header */
    memset(&header, 0, sizeof(header));
    memcpy(header.magic_food, TDB_MAGIC_FOOD, strlen(TDB_MAGIC_FOOD)+1);
    header.version = TDB_VERSION;
    header.hash_size = hash_size;
    lseek(tdb->fd, 0, SEEK_SET);
    ftruncate(tdb->fd, 0);

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

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

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

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

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

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

/* check if an entry in the database exists

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

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

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

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

 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;
   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;
      }

 /* 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 diretcly into our next pointer */
 if (ofs_read(tdb, offset, &rec.next) == -1) {
```

```
 goto fail;
 }

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

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

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

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

 free(p);
 p = NULL;

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

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

fail:
#if TDB_DEBUG
 printf("store failed for hash 0x%08x in bucket %u\n", hash, BUCKET(hash));
#endif
 if (p) free(p);
 tdb_unlock(tdb, BUCKET(hash));
 return -1;
}


/* open the database, creating it if necessary

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

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

  return is NULL on error
```

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

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

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

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

 if (hash_size == 0) hash_size = DEFAULT_HASH_SIZE;

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

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

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

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

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

 if (read(tdb.fd, &tdb.header, sizeof(tdb.header)) != sizeof(tdb.header) ||
     strcmp(tdb.header.magic_food, TDB_MAGIC_FOOD) != 0 ||
     tdb.header.version != TDB_VERSION) {
  /* its not a valid database - possibly initialise it */
  if (!(open_flags & O_CREAT)) {
```

```
 goto fail;
 }
 if (tdb_new_database(&tdb, hash_size) == -1) goto fail;

 lseek(tdb.fd, 0, SEEK_SET);
 if (tdb.fd != -1 && read(tdb.fd, &tdb.header,
                          sizeof(tdb.header)) !=
                          sizeof(tdb.header))
         goto fail;
}

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

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

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

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

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

 *ret = tdb;

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

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

fail:
    if (tdb.name) free(tdb.name);
```

```
 if (tdb.fd != -1) close(tdb.fd);
 if (tdb.map_ptr) munmap(tdb.map_ptr, tdb.map_size);

 return NULL;
}

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

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

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

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

 return 0;
}

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

 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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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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* passprompt.c - pppd plugin to invoke an external PAP password prompter
*
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*/
/*
* chap.c - Challenge Handshake Authentication Protocol.
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* chap_ms.c - Microsoft MS-CHAP compatible implementation.
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*/
/*
  eui64.c - EUI64 routines for IPv6CP.
```

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$Id: eui64.c,v 1.5 2000/08/05 06:46:47 paulus Exp $
*/
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```
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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
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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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1.82 sblim-sfcc-2.0.2 2.0.2

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1.88 zlib 1.2.1.1-2.0.2 :0703267

1.88.1 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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