



Open Source Used In Videoscape Distribution Suite Internet Streaming 4.4.1

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```

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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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*
* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
*

```

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```

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

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

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```

From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

```
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From dso/aix/dso.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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```
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Written by: Philip Hazel <ph10@cam.ac.uk>

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1.4 bash 4.2 :53

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// File   : FillNode.aspx
// Author : Eric Woodruff (Eric@EWoodruff.us)
// Updated : 04/02/2008
// Note   : Copyright 2007-2008, Eric Woodruff, All rights reserved
// Compiler: Microsoft C#
//
// This file contains the code used to dynamically load a parent node with its
// child table of content nodes when first expanded.
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-->

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

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

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

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

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '
'))"/>

<xsl:text>
</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '
')"/>

<xsl:if test="translate(\$rest, '	 ', '')">

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

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

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

<xsl:text>

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```
</xsl:text>
</xsl:variable>

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

</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
Redistribution terms           Automated Testing Framework
=====
```

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

1.8 binutils 2.21

1.8.1 Available under license :

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Version 3, 29 June 2007

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```

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```
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```

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```

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

Ty Coon, President of Vice

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Version 3, 29 June 2007

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1.9 bison 2.4.3

1.9.1 Available under license :

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1.10 chkconfig 1.3.8

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Name: cloud-init

Maintainer: Scott Moser <scott.moser@canonical.com>

Source: <https://launchpad.net/cloud-init>

This package was debianized by Soren Hansen <soren@ubuntu.com> on Thu, 04 Sep 2008 12:49:15 +0200 as ec2-init. It was later renamed to cloud-utils by Scott Moser <scott.moser@canonical.com>

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

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```
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That's all there is to it!

/*****

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*****/

f2c is a Fortran to C converter under development since 1990 by
David M. Gay (then AT&T Bell Labs, now Bell Labs, Lucent Technologies)
Stu Feldman (then at Bellcore, now at IBM)
Mark Maimone (Carnegie-Mellon University)
Norm Schryer (then AT&T Bell Labs, now AT&T Labs)
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1.15 coreutils 8.10

1.15.1 Available under license :

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Version 3, 29 June 2007

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TERMS AND CONDITIONS

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- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the

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1.16 curl 7.28.1

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=====

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axTLS <http://axtls.sourceforge.net/>

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c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

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fbopenssl

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1.17 cxxtest 4.3

1.17.1 Available under license :

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Version 3, 29 June 2007

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1.18 cyrus-sasl 1.5.24

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1.32 gcc 4.5.2

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That's all there is to it!
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Version 3, 29 June 2007

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* m4/ax_func_which_gethostbyname_r.m4

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1.35 glib2 2.16.6

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/*

* Perl-Compatible Regular Expressions *

/* This is the public header file for the PCRE library, to be #included by applications that call the PCRE functions.

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1.36 glibc 2.13

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1.38 hiera 1.3.2

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1.41 inetd 0.16

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1.42 inetutils 1.8

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```

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```
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1.45 ipchains 1.3.10 :7

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1.46 iproute2 2.6.23

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```

```
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1.47 ixgbe 1.3.56.17

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1.50 libcap 2.14

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a

copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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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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1.52 LibELF 0.8.6

1.52.1 Available under license :

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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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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.

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

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- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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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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1.53 Libevent 1.4.8

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1.54 libpcap 1.5.3 :December 18, 2013

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1.57 libssl 0.9.8k

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1.59 libstdc++ 2.96

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1.60 libtar 1.2.11 :16.el6

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#
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```

1.61 libtermcap 2.0.8 :39

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Version 1, February 1989

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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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```

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

```
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under certain conditions; type `show c' for details.
```

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

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

1.64 libwww/Library/src/vms/ 5.4.0

1.64.1 Available under license :

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Version 2, June 1991

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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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*/

```
#include "xmldef.h"
```

```
#ifdef XML_UNICODE_WCHAR_T
#ifndef XML_UNICODE
#define XML_UNICODE
#endif
#endif
```

```
#include "hashtable.h"
```

```
#define INIT_SIZE 64
```

```
static
int keyeq(KEY s1, KEY s2)
{
    for (; *s1 == *s2; s1++, s2++)
        if (*s1 == 0)
            return 1;
    return 0;
}
```

```
static
unsigned long hash(KEY s)
```

```

{
unsigned long h = 0;
while (*s)
    h = (h << 5) + h + (unsigned char)*s++;
return h;
}

NAMED *lookup(HASH_TABLE *table, KEY name, size_t createSize)
{
size_t i;
if (table->size == 0) {
if (!createSize)
    return 0;
table->v = calloc(INIT_SIZE, sizeof(NAMED *));
if (!table->v)
    return 0;
table->size = INIT_SIZE;
table->usedLim = INIT_SIZE / 2;
i = hash(name) & (table->size - 1);
}
else {
unsigned long h = hash(name);
for (i = h & (table->size - 1);
    table->v[i];
    i == 0 ? i = table->size - 1 : --i) {
if (keyeq(name, table->v[i]->name))
return table->v[i];
}
if (!createSize)
    return 0;
if (table->used == table->usedLim) {
/* check for overflow */
size_t newSize = table->size * 2;
NAMED **newV = calloc(newSize, sizeof(NAMED *));
if (!newV)
return 0;
for (i = 0; i < table->size; i++)
if (table->v[i]) {
size_t j;
for (j = hash(table->v[i]->name) & (newSize - 1);
    newV[j];
    j == 0 ? j = newSize - 1 : --j)
;
newV[j] = table->v[i];
}
free(table->v);
table->v = newV;
table->size = newSize;
}
}

```

```

    table->usedLim = newSize/2;
    for (i = h & (table->size - 1);
    table->v[i];
    i == 0 ? i = table->size - 1 : --i)
;
    }
}
table->v[i] = calloc(1, createSize);
if (!table->v[i])
    return 0;
table->v[i]->name = name;
(table->used)++;
return table->v[i];
}

```

```

void hashTableDestroy(HASH_TABLE *table)
{
    size_t i;
    for (i = 0; i < table->size; i++) {
        NAMED *p = table->v[i];
        if (p)
            free(p);
    }
    free(table->v);
}

```

```

void hashTableInit(HASH_TABLE *p)
{
    p->size = 0;
    p->usedLim = 0;
    p->used = 0;
    p->v = 0;
}

```

```

void hashTableIterInit(HASH_TABLE_ITER *iter, const HASH_TABLE *table)
{
    iter->p = table->v;
    iter->end = iter->p + table->size;
}

```

```

NAMED *hashTableIterNext(HASH_TABLE_ITER *iter)
{
    while (iter->p != iter->end) {
        NAMED *tem = *(iter->p)++;
        if (tem)
            return tem;
    }
    return 0;
}

```

}

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```
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```

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

```
Ty Coon, President of Vice
```

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/* zlib.h -- interface of the 'zlib' general purpose compression library

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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](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

*/

```
#ifndef _ZLIB_H
#define _ZLIB_H
```

```
#include <linux/zconf.h>
```

```
/* zlib deflate based on ZLIB_VERSION "1.1.3" */
```

```
/* zlib inflate based on ZLIB_VERSION "1.2.3" */
```

```
/*
```

This is a modified version of zlib for use inside the Linux kernel.
The main changes are to perform all memory allocation in advance.

Inflation Changes:

- * Z_PACKET_FLUSH is added and used by ppp_deflate. Before returning this checks there is no more input data available and the next data is a STORED block. It also resets the mode to be read for the next data, all as per PPP requirements.
- * Addition of zlib_inflateIncomp which copies incompressible data into the history window and adjusts the accounting without calling zlib_inflate itself to inflate the data.

```
*/
```


/*

The 'zlib' compression library provides in-memory compression and decompression functions, including integrity checks of the uncompressed data. This version of the library supports only one compression method (deflation) but other algorithms will be added later and will have the same stream interface.

Compression can be done in a single step if the buffers are large enough (for example if an input file is mmap'ed), or can be done by repeated calls of the compression function. In the latter case, the application must provide more input and/or consume the output (providing more output space) before each call.

The compressed data format used by default by the in-memory functions is the zlib format, which is a zlib wrapper documented in RFC 1950, wrapped around a deflate stream, which is itself documented in RFC 1951.

The library also supports reading and writing files in gzip (.gz) format with an interface similar to that of stdio.

The zlib format was designed to be compact and fast for use in memory and on communications channels. The gzip format was designed for single-file compression on file systems, has a larger header than zlib to maintain directory information, and uses a different, slower check method than zlib.

The library does not install any signal handler. The decoder checks the consistency of the compressed data, so the library should never crash even in case of corrupted input.

*/

```
struct internal_state;
```

```
typedef struct z_stream_s {
```

```
    const Byte *next_in; /* next input byte */
```

```
    uInt  avail_in; /* number of bytes available at next_in */
```

```
    uLong  total_in; /* total nb of input bytes read so far */
```

```
    Byte  *next_out; /* next output byte should be put there */
```

```
    uInt  avail_out; /* remaining free space at next_out */
```

```
    uLong  total_out; /* total nb of bytes output so far */
```

```
    char  *msg; /* last error message, NULL if no error */
```

```
    struct internal_state *state; /* not visible by applications */
```

```
    void  *workspace; /* memory allocated for this stream */
```

```
    int   data_type; /* best guess about the data type: ascii or binary */
```

```

    uLong  adler;    /* Adler32 value of the uncompressed data */
    uLong  reserved; /* reserved for future use */
} z_stream;

```

```

typedef z_stream *z_streamp;

```

```

/*

```

The application must update `next_in` and `avail_in` when `avail_in` has dropped to zero. It must update `next_out` and `avail_out` when `avail_out` has dropped to zero. The application must initialize `zalloc`, `zfree` and `opaque` before calling the `init` function. All other fields are set by the compression library and must not be updated by the application.

The `opaque` value provided by the application will be passed as the first parameter for calls of `zalloc` and `zfree`. This can be useful for custom memory management. The compression library attaches no meaning to the `opaque` value.

`zalloc` must return `NULL` if there is not enough memory for the object. If `zlib` is used in a multi-threaded application, `zalloc` and `zfree` must be thread safe.

On 16-bit systems, the functions `zalloc` and `zfree` must be able to allocate exactly 65536 bytes, but will not be required to allocate more than this if the symbol `MAXSEG_64K` is defined (see `zconf.h`). **WARNING:** On MSDOS, pointers returned by `zalloc` for objects of exactly 65536 bytes *must* have their offset normalized to zero. The default allocation function provided by this library ensures this (see `zutil.c`). To reduce memory requirements and avoid any allocation of 64K objects, at the expense of compression ratio, compile the library with `-D_MAX_WBITS=14` (see `zconf.h`).

The fields `total_in` and `total_out` can be used for statistics or progress reports. After compression, `total_in` holds the total size of the uncompressed data and may be saved for use in the decompressor (particularly if the decompressor wants to decompress everything in a single step).

```

*/

```

```

    /* constants */

```

```

#define Z_NO_FLUSH      0
#define Z_PARTIAL_FLUSH 1 /* will be removed, use Z_SYNC_FLUSH instead */
#define Z_PACKET_FLUSH  2
#define Z_SYNC_FLUSH    3
#define Z_FULL_FLUSH    4
#define Z_FINISH        5
#define Z_BLOCK         6 /* Only for inflate at present */
/* Allowed flush values; see deflate() and inflate() below for details */

```

```

#define Z_OK          0
#define Z_STREAM_END  1
#define Z_NEED_DICT   2
#define Z_ERRNO       (-1)
#define Z_STREAM_ERROR (-2)
#define Z_DATA_ERROR  (-3)
#define Z_MEM_ERROR   (-4)
#define Z_BUF_ERROR   (-5)
#define Z_VERSION_ERROR (-6)
/* Return codes for the compression/decompression functions. Negative
 * values are errors, positive values are used for special but normal events.
 */

#define Z_NO_COMPRESSION    0
#define Z_BEST_SPEED        1
#define Z_BEST_COMPRESSION  9
#define Z_DEFAULT_COMPRESSION (-1)
/* compression levels */

#define Z_FILTERED          1
#define Z_HUFFMAN_ONLY      2
#define Z_DEFAULT_STRATEGY  0
/* compression strategy; see deflateInit2() below for details */

#define Z_BINARY            0
#define Z_ASCII             1
#define Z_UNKNOWN           2
/* Possible values of the data_type field */

#define Z_DEFLATED          8
/* The deflate compression method (the only one supported in this version) */

/* basic functions */

extern int zlib_deflate_workspacesize (void);
/*
 * Returns the number of bytes that needs to be allocated for a per-
 * stream workspace. A pointer to this number of bytes should be
 * returned in stream->workspace before calling zlib_deflateInit().
 */

/*
extern int deflateInit (z_stream* strm, int level);

 * Initializes the internal stream state for compression. The fields
 * zalloc, zfree and opaque must be initialized before by the caller.
 * If zalloc and zfree are set to NULL, deflateInit updates them to

```

use default allocation functions.

The compression level must be `Z_DEFAULT_COMPRESSION`, or between 0 and 9: 1 gives best speed, 9 gives best compression, 0 gives no compression at all (the input data is simply copied a block at a time). `Z_DEFAULT_COMPRESSION` requests a default compromise between speed and compression (currently equivalent to level 6).

`deflateInit` returns `Z_OK` if success, `Z_MEM_ERROR` if there was not enough memory, `Z_STREAM_ERROR` if level is not a valid compression level, `Z_VERSION_ERROR` if the zlib library version (`zlib_version`) is incompatible with the version assumed by the caller (`ZLIB_VERSION`).

`msg` is set to null if there is no error message. `deflateInit` does not perform any compression: this will be done by `deflate()`.

*/

```
extern int zlib_deflate (z_streamp strm, int flush);
```

/*

`deflate` compresses as much data as possible, and stops when the input buffer becomes empty or the output buffer becomes full. It may introduce some output latency (reading input without producing any output) except when forced to flush.

The detailed semantics are as follows. `deflate` performs one or both of the following actions:

- Compress more input starting at `next_in` and update `next_in` and `avail_in` accordingly. If not all input can be processed (because there is not enough room in the output buffer), `next_in` and `avail_in` are updated and processing will resume at this point for the next call of `deflate()`.
- Provide more output starting at `next_out` and update `next_out` and `avail_out` accordingly. This action is forced if the parameter `flush` is non zero. Forcing flush frequently degrades the compression ratio, so this parameter should be set only when necessary (in interactive applications). Some output may be provided even if `flush` is not set.

Before the call of `deflate()`, the application should ensure that at least one of the actions is possible, by providing more input and/or consuming more output, and updating `avail_in` or `avail_out` accordingly; `avail_out` should never be zero before the call. The application can consume the compressed output when it wants, for example when the output buffer is full (`avail_out == 0`), or after each call of `deflate()`. If `deflate` returns `Z_OK` and with zero `avail_out`, it must be called again after making room in the output buffer because there might be more output pending.

If the parameter `flush` is set to `Z_SYNC_FLUSH`, all pending output is

flushed to the output buffer and the output is aligned on a byte boundary, so that the decompressor can get all input data available so far. (In particular `avail_in` is zero after the call if enough output space has been provided before the call.) Flushing may degrade compression for some compression algorithms and so it should be used only when necessary.

If `flush` is set to `Z_FULL_FLUSH`, all output is flushed as with `Z_SYNC_FLUSH`, and the compression state is reset so that decompression can restart from this point if previous compressed data has been damaged or if random access is desired. Using `Z_FULL_FLUSH` too often can seriously degrade the compression.

If `deflate` returns with `avail_out == 0`, this function must be called again with the same value of the `flush` parameter and more output space (updated `avail_out`), until the flush is complete (`deflate` returns with non-zero `avail_out`).

If the parameter `flush` is set to `Z_FINISH`, pending input is processed, pending output is flushed and `deflate` returns with `Z_STREAM_END` if there was enough output space; if `deflate` returns with `Z_OK`, this function must be called again with `Z_FINISH` and more output space (updated `avail_out`) but no more input data, until it returns with `Z_STREAM_END` or an error. After `deflate` has returned `Z_STREAM_END`, the only possible operations on the stream are `deflateReset` or `deflateEnd`.

`Z_FINISH` can be used immediately after `deflateInit` if all the compression is to be done in a single step. In this case, `avail_out` must be at least 0.1% larger than `avail_in` plus 12 bytes. If `deflate` does not return `Z_STREAM_END`, then it must be called again as described above.

`deflate()` sets `strm->adler` to the Adler32 checksum of all input read so far (that is, `total_in` bytes).

`deflate()` may update `data_type` if it can make a good guess about the input data type (`Z_ASCII` or `Z_BINARY`). In doubt, the data is considered binary. This field is only for information purposes and does not affect the compression algorithm in any manner.

`deflate()` returns `Z_OK` if some progress has been made (more input processed or more output produced), `Z_STREAM_END` if all input has been consumed and all output has been produced (only when `flush` is set to `Z_FINISH`), `Z_STREAM_ERROR` if the stream state was inconsistent (for example if `next_in` or `next_out` was `NULL`), `Z_BUF_ERROR` if no progress is possible (for example `avail_in` or `avail_out` was zero).

*/

```
extern int zlib_deflateEnd (z_stream * strm);
```

```
/*  
    All dynamically allocated data structures for this stream are freed.  
    This function discards any unprocessed input and does not flush any  
    pending output.
```

```
    deflateEnd returns Z_OK if success, Z_STREAM_ERROR if the  
    stream state was inconsistent, Z_DATA_ERROR if the stream was freed  
    prematurely (some input or output was discarded). In the error case,  
    msg may be set but then points to a static string (which must not be  
    deallocated).
```

```
*/
```

```
extern int zlib_inflate_workspacesize (void);
```

```
/*
```

```
    Returns the number of bytes that needs to be allocated for a per-  
    stream workspace. A pointer to this number of bytes should be  
    returned in stream->workspace before calling zlib_inflateInit().
```

```
*/
```

```
/*
```

```
extern int zlib_inflateInit (z_streamp strm);
```

```
    Initializes the internal stream state for decompression. The fields  
    next_in, avail_in, and workspace must be initialized before by  
    the caller. If next_in is not NULL and avail_in is large enough (the exact  
    value depends on the compression method), inflateInit determines the  
    compression method from the zlib header and allocates all data structures  
    accordingly; otherwise the allocation will be deferred to the first call of  
    inflate. If zalloc and zfree are set to NULL, inflateInit updates them to  
    use default allocation functions.
```

```
    inflateInit returns Z_OK if success, Z_MEM_ERROR if there was not enough  
    memory, Z_VERSION_ERROR if the zlib library version is incompatible with the  
    version assumed by the caller. msg is set to null if there is no error  
    message. inflateInit does not perform any decompression apart from reading  
    the zlib header if present: this will be done by inflate(). (So next_in and  
    avail_in may be modified, but next_out and avail_out are unchanged.)
```

```
*/
```

```
extern int zlib_inflate (z_streamp strm, int flush);
```

```
/*
```

```
    inflate decompresses as much data as possible, and stops when the input  
    buffer becomes empty or the output buffer becomes full. It may introduce  
    some output latency (reading input without producing any output) except when  
    forced to flush.
```

The detailed semantics are as follows. `inflate` performs one or both of the following actions:

- Decompress more input starting at `next_in` and update `next_in` and `avail_in` accordingly. If not all input can be processed (because there is not enough room in the output buffer), `next_in` is updated and processing will resume at this point for the next call of `inflate()`.
- Provide more output starting at `next_out` and update `next_out` and `avail_out` accordingly. `inflate()` provides as much output as possible, until there is no more input data or no more space in the output buffer (see below about the flush parameter).

Before the call of `inflate()`, the application should ensure that at least one of the actions is possible, by providing more input and/or consuming more output, and updating the `next_*` and `avail_*` values accordingly. The application can consume the uncompressed output when it wants, for example when the output buffer is full (`avail_out == 0`), or after each call of `inflate()`. If `inflate` returns `Z_OK` and with zero `avail_out`, it must be called again after making room in the output buffer because there might be more output pending.

The flush parameter of `inflate()` can be `Z_NO_FLUSH`, `Z_SYNC_FLUSH`, `Z_FINISH`, or `Z_BLOCK`. `Z_SYNC_FLUSH` requests that `inflate()` flush as much output as possible to the output buffer. `Z_BLOCK` requests that `inflate()` stop if and when it gets to the next deflate block boundary. When decoding the zlib or gzip format, this will cause `inflate()` to return immediately after the header and before the first block. When doing a raw inflate, `inflate()` will go ahead and process the first block, and will return when it gets to the end of that block, or when it runs out of data.

The `Z_BLOCK` option assists in appending to or combining deflate streams. Also to assist in this, on return `inflate()` will set `strm->data_type` to the number of unused bits in the last byte taken from `strm->next_in`, plus 64 if `inflate()` is currently decoding the last block in the deflate stream, plus 128 if `inflate()` returned immediately after decoding an end-of-block code or decoding the complete header up to just before the first byte of the deflate stream. The end-of-block will not be indicated until all of the uncompressed data from that block has been written to `strm->next_out`. The number of unused bits may in general be greater than seven, except when bit 7 of `data_type` is set, in which case the number of unused bits will be less than eight.

`inflate()` should normally be called until it returns `Z_STREAM_END` or an error. However if all decompression is to be performed in a single step (a single call of `inflate`), the parameter flush should be set to `Z_FINISH`. In this case all pending input is processed and all pending output is flushed; `avail_out` must be large enough to hold all the

uncompressed data. (The size of the uncompressed data may have been saved by the compressor for this purpose.) The next operation on this stream must be `inflateEnd` to deallocate the decompression state. The use of `Z_FINISH` is never required, but can be used to inform `inflate` that a faster approach may be used for the single `inflate()` call.

In this implementation, `inflate()` always flushes as much output as possible to the output buffer, and always uses the faster approach on the first call. So the only effect of the flush parameter in this implementation is on the return value of `inflate()`, as noted below, or when it returns early because `Z_BLOCK` is used.

If a preset dictionary is needed after this call (see `inflateSetDictionary` below), `inflate` sets `strm->adler` to the adler32 checksum of the dictionary chosen by the compressor and returns `Z_NEED_DICT`; otherwise it sets `strm->adler` to the adler32 checksum of all output produced so far (that is, `total_out` bytes) and returns `Z_OK`, `Z_STREAM_END` or an error code as described below. At the end of the stream, `inflate()` checks that its computed adler32 checksum is equal to that saved by the compressor and returns `Z_STREAM_END` only if the checksum is correct.

`inflate()` will decompress and check either zlib-wrapped or gzip-wrapped deflate data. The header type is detected automatically. Any information contained in the gzip header is not retained, so applications that need that information should instead use raw `inflate`, see `inflateInit2()` below, or `inflateBack()` and perform their own processing of the gzip header and trailer.

`inflate()` returns `Z_OK` if some progress has been made (more input processed or more output produced), `Z_STREAM_END` if the end of the compressed data has been reached and all uncompressed output has been produced, `Z_NEED_DICT` if a preset dictionary is needed at this point, `Z_DATA_ERROR` if the input data was corrupted (input stream not conforming to the zlib format or incorrect check value), `Z_STREAM_ERROR` if the stream structure was inconsistent (for example if `next_in` or `next_out` was `NULL`), `Z_MEM_ERROR` if there was not enough memory, `Z_BUF_ERROR` if no progress is possible or if there was not enough room in the output buffer when `Z_FINISH` is used. Note that `Z_BUF_ERROR` is not fatal, and `inflate()` can be called again with more input and more output space to continue decompressing. If `Z_DATA_ERROR` is returned, the application may then call `inflateSync()` to look for a good compression block if a partial recovery of the data is desired.

*/

```
extern int zlib_inflateEnd (z_streamp strm);
```

/*

All dynamically allocated data structures for this stream are freed.

This function discards any unprocessed input and does not flush any

pending output.

inflateEnd returns Z_OK if success, Z_STREAM_ERROR if the stream state was inconsistent. In the error case, msg may be set but then points to a static string (which must not be deallocated).

*/

/* Advanced functions */

/*

The following functions are needed only in some special applications.

*/

/*

```
extern int deflateInit2 (z_streamp strm,
                        int level,
                        int method,
                        int windowBits,
                        int memLevel,
                        int strategy);
```

This is another version of deflateInit with more compression options. The fields next_in, zalloc, zfree and opaque must be initialized before by the caller.

The method parameter is the compression method. It must be Z_DEFLATED in this version of the library.

The windowBits parameter is the base two logarithm of the window size (the size of the history buffer). It should be in the range 8..15 for this version of the library. Larger values of this parameter result in better compression at the expense of memory usage. The default value is 15 if deflateInit is used instead.

The memLevel parameter specifies how much memory should be allocated for the internal compression state. memLevel=1 uses minimum memory but is slow and reduces compression ratio; memLevel=9 uses maximum memory for optimal speed. The default value is 8. See zconf.h for total memory usage as a function of windowBits and memLevel.

The strategy parameter is used to tune the compression algorithm. Use the value Z_DEFAULT_STRATEGY for normal data, Z_FILTERED for data produced by a filter (or predictor), or Z_HUFFMAN_ONLY to force Huffman encoding only (no string match). Filtered data consists mostly of small values with a somewhat random distribution. In this case, the compression algorithm is tuned to compress them better. The effect of Z_FILTERED is to force more Huffman coding and less string matching; it is somewhat intermediate between Z_DEFAULT and Z_HUFFMAN_ONLY. The strategy parameter only affects

the compression ratio but not the correctness of the compressed output even if it is not set appropriately.

deflateInit2 returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_STREAM_ERROR if a parameter is invalid (such as an invalid method). msg is set to null if there is no error message. deflateInit2 does not perform any compression: this will be done by deflate().

*/

```
#if 0
extern int zlib_deflateSetDictionary (z_streamp strm,
    const Byte *dictionary,
    uInt dictLength);
```

```
#endif
```

/*

Initializes the compression dictionary from the given byte sequence without producing any compressed output. This function must be called immediately after deflateInit, deflateInit2 or deflateReset, before any call of deflate. The compressor and decompressor must use exactly the same dictionary (see inflateSetDictionary).

The dictionary should consist of strings (byte sequences) that are likely to be encountered later in the data to be compressed, with the most commonly used strings preferably put towards the end of the dictionary. Using a dictionary is most useful when the data to be compressed is short and can be predicted with good accuracy; the data can then be compressed better than with the default empty dictionary.

Depending on the size of the compression data structures selected by deflateInit or deflateInit2, a part of the dictionary may in effect be discarded, for example if the dictionary is larger than the window size in deflate or deflate2. Thus the strings most likely to be useful should be put at the end of the dictionary, not at the front.

Upon return of this function, strm->adler is set to the Adler32 value of the dictionary; the decompressor may later use this value to determine which dictionary has been used by the compressor. (The Adler32 value applies to the whole dictionary even if only a subset of the dictionary is actually used by the compressor.)

deflateSetDictionary returns Z_OK if success, or Z_STREAM_ERROR if a parameter is invalid (such as NULL dictionary) or the stream state is inconsistent (for example if deflate has already been called for this stream or if the compression method is bsort). deflateSetDictionary does not perform any compression: this will be done by deflate().

*/

```
#if 0
```

```
extern int zlib_deflateCopy (z_streamp dest, z_streamp source);
```

```
#endif
```

```
/*
```

Sets the destination stream as a complete copy of the source stream.

This function can be useful when several compression strategies will be tried, for example when there are several ways of pre-processing the input data with a filter. The streams that will be discarded should then be freed by calling deflateEnd. Note that deflateCopy duplicates the internal compression state which can be quite large, so this strategy is slow and can consume lots of memory.

deflateCopy returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_STREAM_ERROR if the source stream state was inconsistent (such as zalloc being NULL). msg is left unchanged in both source and destination.

```
*/
```

```
extern int zlib_deflateReset (z_streamp strm);
```

```
/*
```

This function is equivalent to deflateEnd followed by deflateInit, but does not free and reallocate all the internal compression state. The stream will keep the same compression level and any other attributes that may have been set by deflateInit2.

deflateReset returns Z_OK if success, or Z_STREAM_ERROR if the source stream state was inconsistent (such as zalloc or state being NULL).

```
*/
```

```
static inline unsigned long deflateBound(unsigned long s)
```

```
{  
    return s + ((s + 7) >> 3) + ((s + 63) >> 6) + 11;  
}
```

```
#if 0
```

```
extern int zlib_deflateParams (z_streamp strm, int level, int strategy);
```

```
#endif
```

```
/*
```

Dynamically update the compression level and compression strategy. The interpretation of level and strategy is as in deflateInit2. This can be used to switch between compression and straight copy of the input data, or to switch to a different kind of input data requiring a different strategy. If the compression level is changed, the input available so far is compressed with the old level (and may be flushed); the new level will take effect only at the next call of deflate().

Before the call of deflateParams, the stream state must be set as for

a call of deflate(), since the currently available input may have to be compressed and flushed. In particular, strm->avail_out must be non-zero.

deflateParams returns Z_OK if success, Z_STREAM_ERROR if the source stream state was inconsistent or if a parameter was invalid, Z_BUF_ERROR if strm->avail_out was zero.

*/

/*

```
extern int inflateInit2 (z_streamp strm, int windowBits);
```

This is another version of inflateInit with an extra parameter. The fields next_in, avail_in, zalloc, zfree and opaque must be initialized before by the caller.

The windowBits parameter is the base two logarithm of the maximum window size (the size of the history buffer). It should be in the range 8..15 for this version of the library. The default value is 15 if inflateInit is used instead. windowBits must be greater than or equal to the windowBits value provided to deflateInit2() while compressing, or it must be equal to 15 if deflateInit2() was not used. If a compressed stream with a larger window size is given as input, inflate() will return with the error code Z_DATA_ERROR instead of trying to allocate a larger window.

windowBits can also be -8..-15 for raw inflate. In this case, -windowBits determines the window size. inflate() will then process raw deflate data, not looking for a zlib or gzip header, not generating a check value, and not looking for any check values for comparison at the end of the stream. This is for use with other formats that use the deflate compressed data format such as zip. Those formats provide their own check values. If a custom format is developed using the raw deflate format for compressed data, it is recommended that a check value such as an Adler32 or a CRC32 be applied to the uncompressed data as is done in the zlib, gzip, and zip formats. For most applications, the zlib format should be used as is. Note that comments above on the use in deflateInit2() applies to the magnitude of windowBits.

windowBits can also be greater than 15 for optional gzip decoding. Add 32 to windowBits to enable zlib and gzip decoding with automatic header detection, or add 16 to decode only the gzip format (the zlib format will return a Z_DATA_ERROR). If a gzip stream is being decoded, strm->adler is a CRC32 instead of an Adler32.

inflateInit2 returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_STREAM_ERROR if a parameter is invalid (such as a null strm). msg is set to null if there is no error message. inflateInit2 does not perform any decompression apart from reading the zlib header if present: this will be done by inflate(). (So next_in and avail_in may be modified, but next_out and avail_out are unchanged.)

*/

```
extern int zlib_inflateSetDictionary (z_streamp strm,  
    const Byte *dictionary,  
    uInt dictLength);
```

/*

Initializes the decompression dictionary from the given uncompressed byte sequence. This function must be called immediately after a call of inflate, if that call returned Z_NEED_DICT. The dictionary chosen by the compressor can be determined from the Adler32 value returned by that call of inflate. The compressor and decompressor must use exactly the same dictionary (see deflateSetDictionary). For raw inflate, this function can be called immediately after inflateInit2() or inflateReset() and before any call of inflate() to set the dictionary. The application must insure that the dictionary that was used for compression is provided.

inflateSetDictionary returns Z_OK if success, Z_STREAM_ERROR if a parameter is invalid (such as NULL dictionary) or the stream state is inconsistent, Z_DATA_ERROR if the given dictionary doesn't match the expected one (incorrect Adler32 value). inflateSetDictionary does not perform any decompression: this will be done by subsequent calls of inflate().

*/

```
#if 0
```

```
extern int zlib_inflateSync (z_streamp strm);  
#endif
```

/*

Skips invalid compressed data until a full flush point (see above the description of deflate with Z_FULL_FLUSH) can be found, or until all available input is skipped. No output is provided.

inflateSync returns Z_OK if a full flush point has been found, Z_BUF_ERROR if no more input was provided, Z_DATA_ERROR if no flush point has been found, or Z_STREAM_ERROR if the stream structure was inconsistent. In the success case, the application may save the current value of total_in which indicates where valid compressed data was found. In the error case, the application may repeatedly call inflateSync, providing more input each time, until success or end of the input data.

*/

```
extern int zlib_inflateReset (z_streamp strm);
```

/*

This function is equivalent to inflateEnd followed by inflateInit, but does not free and reallocate all the internal decompression state. The stream will keep attributes that may have been set by inflateInit2.

inflateReset returns Z_OK if success, or Z_STREAM_ERROR if the source

```

stream state was inconsistent (such as zalloc or state being NULL).
*/

extern int zlib_inflateIncomp (z_stream *strm);
/*
   This function adds the data at next_in (avail_in bytes) to the output
   history without performing any output. There must be no pending output,
   and the decompressor must be expecting to see the start of a block.
   Calling this function is equivalent to decompressing a stored block
   containing the data at next_in (except that the data is not output).
*/

#define zlib_deflateInit(strm, level) \
zlib_deflateInit2((strm), (level), Z_DEFLATED, MAX_WBITS, \
    DEF_MEM_LEVEL, Z_DEFAULT_STRATEGY)
#define zlib_inflateInit(strm) \
zlib_inflateInit2((strm), DEF_WBITS)

extern int zlib_deflateInit2(z_stream *strm, int level, int method,
    int windowBits, int memLevel,
    int strategy);
extern int zlib_inflateInit2(z_stream *strm, int windowBits);

#if !defined(_Z_UTIL_H) && !defined(NO_DUMMY_DECL)
    struct internal_state {int dummy;}; /* hack for buggy compilers */
#endif

/* Utility function: initialize zlib, unpack binary blob, clean up zlib,
 * return len or negative error code. */
extern int zlib_inflate_blob(void *dst, unsigned dst_sz, const void *src, unsigned src_sz);

#endif /* _ZLIB_H */

```

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FlashPoint Driver Developer's Kit
Version 1.0

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see init_nicstar() for PHY initialization to change this. This driver

* expects the Linux ATM stack to support scatter-gather lists

* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

*

* Implementing minimal-copy of received data:

* IDT always receives data into a small buffer, then large buffers

* as needed. This means that data must always be copied to create

* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

* Fix is simple: make large buffers large enough to hold entire

* SDU, and leave <small_buffer_data> bytes empty at the start. Then

* copy small buffer contents to head of large buffer.

* Trick is to avoid fragmenting Linux, due to need for a lot of large

* buffers. This is done by 2 things:

* 1) skb->destructor / skb->atm.recycle_buffer

* combined, allow nicstar_free_rx_skb to be called to

* recycle large data buffers

* 2) skb_clone of received buffers

* See nicstar_free_rx_skb and linearize_buffer for implementation

* details.

*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/

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QLogic Linux Fibre Channel HBA Driver

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<one line to give the program's name and a brief idea of what it does.>

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

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

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

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

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

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

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

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

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

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If such an object file uses only numerical parameters, data

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

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1.72 mingetty 0.9.4

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```
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```

```
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1.77 mpeg_stat 2.2

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1.78 mrtg 2.9.17

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```

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1.86 pciutils 3.1.0

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1.87 pcre 6.7

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1.88 perl 5.12.3

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1.89 perl-BSD-Resource 1.09

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```
Gnomovision version 69, Copyright (C) 19xx 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.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

1.90 perl-libnet 1.0703

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```

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at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.91 perl-MIME-Base64 2.11

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```

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

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1.92 Postgresql 9.0.6

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(formerly known as Postgres, then as Postgres95)

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1.93 psmisc 22.13

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```
# ZAML -- A partial replacement for YAML, written with speed and code clarity
```

```
#   in mind. ZAML fixes one YAML bug (loading Exceptions) and provides
```

```
#   a replacement for YAML.dump unimaginatively called ZAML.dump,
```

```
#   which is faster on all known cases and an order of magnitude faster
```

```
#   with complex structures.
```

```
#
```

```
# http://github.com/hallettj/zaml
```

```
#
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```
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1.95 python 2.7.5-1

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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1.100 ruby 2.0.0.451

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include/ruby/oniguruma.h:

regcomp.c:

regenc.[ch]:

regerror.c:

regexec.c:

regint.h:

regparse.[ch]:

enc/ascii.c

enc/big5.c

enc/cp949.c

enc/emacs_mule.c

enc/encdb.c

enc/euc_jp.c

enc/euc_kr.c

enc/euc_tw.c

enc/gb18030.c

enc/gb2312.c

enc/gbk.c

enc/iso_8859_1.c

enc/iso_8859_10.c

enc/iso_8859_11.c

enc/iso_8859_13.c

enc/iso_8859_14.c

enc/iso_8859_15.c

enc/iso_8859_16.c

enc/iso_8859_2.c

enc/iso_8859_3.c

enc/iso_8859_4.c

enc/iso_8859_5.c

enc/iso_8859_6.c

enc/iso_8859_7.c

enc/iso_8859_8.c

enc/iso_8859_9.c

enc/koi8_r.c

enc/koi8_u.c

enc/shift_jis.c

enc/unicode.c

enc/us_ascii.c
enc/utf_16be.c
enc/utf_16le.c
enc/utf_32be.c
enc/utf_32le.c
enc/utf_8.c
enc/windows_1251.c

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<http://www.ruby-lang.org/cgi-bin/cvsweb.cgi/oniguruma/>
<http://www.freebsd.org/cgi/cvsweb.cgi/ports/devel/oniguruma/>

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win32/win32.[ch]:

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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

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

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`vsnprintf.c`:

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st.[ch]:

missing/alloca.c:

missing/dup2.c:

missing/erf.c:

missing/finite.c:

missing/hypot.c:

missing/isinf.c:

missing/isnan.c:

missing/lgamma_r.c:

missing/memcmp.c:

missing/memmove.c:

missing/stchr.c:
missing/strchr.c:
missing/strtol.c:
missing/tgamma.c:
ext/digest/sha1/sha1.[ch]:

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missing/setproctitle.c

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missing/strlcpy.c

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ext/nkf/nkf-utf8/nkf.c:
ext/nkf/nkf-utf8/utf8tbl.c:

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:: Authors: Yukihiro Matsumoto, Nobuyoshi Nakada
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:: Created: Fri Feb 4 14:49:13 JST 1994
:: Keywords: languages ruby
:: Version: 0.9

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enc/koi8_u.c

enc/shift_jis.c

enc/unicode.c

enc/us_ascii.c

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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a faster version by taking Shawn Cokus's optimization,

Matthe Bellew's simplification, Isaku Wada's real version.

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

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*

* Various Unix compatibility functions and NT specific functions.

*

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*

*/

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1.102 ruby/regex 2.0.0.451

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regexec.c:
regint.h:
regparse.[ch]:
enc/ascii.c
enc/big5.c
enc/cp949.c
enc/emacs_mule.c

enc/encdb.c
enc/euc_jp.c
enc/euc_kr.c
enc/euc_tw.c
enc/gb18030.c
enc/gb2312.c
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enc/iso_8859_1.c
enc/iso_8859_10.c
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enc/iso_8859_14.c
enc/iso_8859_15.c
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enc/iso_8859_6.c
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enc/utf_16be.c
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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a faster version by taking Shawn Cokus's optimization, Matthe Bellew's simplification, Isaku Wada's real version.

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

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missing/isinf.c:
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ext/nkf/nkf-utf8/nkf.c:
ext/nkf/nkf-utf8/utf8tbl.c:

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1.103 ruby/ruby-mode.el 2.0.0.451

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```
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:: Authors: Yukihiro Matsumoto, Nobuyoshi Nakada
:: URL: <http://www.emacswiki.org/cgi-bin/wiki/RubyMode>
:: Created: Fri Feb 4 14:49:13 JST 1994
:: Keywords: languages ruby
:: Version: 0.9

:: This file is not part of GNU Emacs. However, a newer version of
:: ruby-mode is included in recent releases of GNU Emacs (version 23
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1.104 sftp.c 1.70

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1.106 smbios 0.0.2

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1.110 textutils 2.1

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<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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```

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.112 Tomcat 4.1.24

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1.113 traceroute 1.4a12

1.113.1 Available under license :

@(#) \$Id: README,v 1.9 2000/09/16 05:32:01 leres Exp \$ (LBL)

TRACEROUTE 1.4

Lawrence Berkeley National Laboratory

Network Research Group

traceroute@ee.lbl.gov

<ftp://ftp.ee.lbl.gov/traceroute.tar.gz>

Traceroute is a system administrators utility to trace the route
ip packets from the current system take in getting to some
destination system. See the comments at the front of the
program for a description of its use.

This program uses raw ip sockets and must be run as root (or installed
setuid to root).

A couple of awk programs to massage the traceroute output are
included. "mean.awk" and "median.awk" compute the mean and median time
to each hop, respectively. I've found that something like

```
traceroute -q 7 foo.somewhere >t  
awk -f median.awk t | xgraph
```

can give you a quick picture of the bad spots on a long path (median is
usually a better noise filter than mean).

Problems, bugs, questions, desirable enhancements, source code

contributions, etc., should be sent to the email address

"traceroute@ee.lbl.gov".

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1.114 udev 117

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1.121 wu-ftpd 2.6.1

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```
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```
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1.127 yaml 0.1.5

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1.128 zlib 1.2.5

1.128.1 Available under license :

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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> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

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