Open Source Used In Video Distribution Suite for Internet Streaming 4.4.2

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* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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From `network_io/unix/inet_ntop.c`, `network_io/unix/inet_pton.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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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
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

  * atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision
Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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1.8 binutils 2.21

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

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

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

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   (including a physical distribution medium), accompanied by a
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   model, to give anyone who possesses the object code either (1) a
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   more than your reasonable cost of physically performing this
   conveying of source, or (2) access to copy the
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d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
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copy the object code is a network server, the Corresponding Source
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that supports equivalent copying facilities, provided you maintain
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Corresponding Source. Regardless of what server hosts the
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available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
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### 1.10 chkconfig 1.3.8

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Maintainer: Scott Moser <scott.moser@canonical.com>
Source: https://launchpad.net/cloud-init

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Version 2, June 1991

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

Preamble

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

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

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

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

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

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

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To apply these terms, attach the following notices to the library. It is
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****************************************************************
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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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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source
form of a work.

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1.16 curl 7.28.1

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krb4

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[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL
1.17 cxxtest 4.3

1.17.1 Available under license:

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1.18 cyrus-sasl 1.5.24

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o devel@freetype.org

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o http://www.freetype.org

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You can also contact us individually at:

David Turner <david.turner@freetype.org>
Robert Wilhelm <robert.wilhelm@freetype.org>
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Version 3.1, 31 March 2009

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* m4/ax_func_which_gethostbyname_r.m4

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***********************************************************************
* Perl-Compatible Regular Expressions                                 *
***********************************************************************

/* This is the public header file for the PCRE library, to be #included by
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1.36 glibc 2.13

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

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That's all there is to it!
HAPROXY's license - 2006/06/15

Historically, haproxy has been covered by GPL version 2. However, an issue
appeared in GPL which will prevent external non-GPL code from being built
using the headers provided with haproxy. My long-term goal is to build a core
system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...),
some of them might be accessible only after signing an NDA. Enforcing GPL on
such modules would only prevent them from ever being implemented, while not
providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules
when needed, with a GPL core and GPL modules for standard protocols, so that
people fixing bugs don't keep them secretly to try to stay over competition.

The solution was then to apply the LGPL license to the exportable include
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Willy Tarreau - w@1wt.eu

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[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

Preamble
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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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

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

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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

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

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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.

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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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(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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application-supplied function or table used by this function must
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root function must still compute square roots.)

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1.56 libpng 1.0.14

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1.57 libpq 8.4.7

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1.58 libssl 0.9.8b

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#
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1.65 libwww/Library/src/vms/ 5.4.0

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*/

#include "xmldef.h"

#ifndef XML_UNICODE_WCHAR_T
#define XML_UNICODE_WCHAR_T
#endif
#endif

#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;
        }
    }
    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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QLogic Linux Networking HBA Driver

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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 (deflate format) and 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_streamp 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_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.

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().

# 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().
*/

#endif
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 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_streamp strm, int  level, int  method,
int windowBits, int memLevel,
int strategy);
extern int zlib_inflateInit2(z_streamp strm, int  windowBits);

#if !defined(_Z_UTIL_H) && !defined(NO_DUMMY_DECL)
struct internal_state {int dummy;}; /* hack for buggy compilers */
/* 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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That's all there is to it!
1.69 lkcdutils 6.1.0

1.69.1 Available under license:

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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that the user who changes the contents of definitions files in the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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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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d) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
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1.78 mpeg_stat 2.2

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- Viraj Bais <vbais@mailman1.intel.co> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
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- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
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- Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
- Reg Clemens <reg@dwsf.com> Oncore driver (Current maintainer)
- Steve Clift <clift@ml.csiro.au> OMEGA clock driver
- Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
- Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
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Johannes Maximilian Kuehn &lt;kuehn@ntp.org&gt; Rewrote &lt;tt&gt;ntpq&lt;/tt&gt; to comply with NTPv4 specification, &lt;tt&gt;ntpq saveconfig&lt;/tt&gt;

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<kirkwood@striderfm.intel.com> port to WindowsNT 3.5

5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes

6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option

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port. Clean up recvbuf and iosignal code into separate modules.

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9. [10]Piete Brooks <Piete.Brooks@el.cam.ac.uk> MSF clock driver,
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10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete
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11. [12]Jean-Francois Boudreault
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12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)

13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver

14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and
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15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference
clock driver, NT adj. residuals, integrated Greg’s Winnt port.


17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux
port

18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for
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19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing

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21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver

22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver

23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port

24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port

25. [26]Jeff Johnson <sjj@chatham.usdesign.com> massive prototyping
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27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original
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31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port

32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
GPS clock driver
33. George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
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36. Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code
    Maintenance
37. David L. Mills <mills@udel.edu> Version 4 foundation,
    precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19,
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43. Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code
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47. Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
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59. Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
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copyright = {
    date = "1992-2017";
    owner = "The University of Delaware and Network Time Foundation";
    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    type = ntp;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION="\`sed -e "s/\./\[\]/ -e "s/\]/\]/" < ../sntp/m4/version.m4\`
        [ -z "$VERSION" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
        echo $VERSION`;

version-value = ";/* Don't use -v as a shortcut for --version */

/*
 * HMS: man pages already have this, and texi pages can use the
 * values in snntp/include/version.texi .
 */
// doc-sub = {
//    sub-name = version;
//    sub-text = "s/#VERSION#/<<version>>/g";
// };

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<signature of Ty Coon>, 1 April 1989
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That's all there is to it!

1.91 perl-libnet 1.0703

1.91.1 Available under license:

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
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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/
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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/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
missing/memmove.c:
missing/strchr.c:
missing/strstr.c:
missing/strtol.c:
missing/tgamma.c:
ext/digest/sha1/sha1.[ch]:

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include/ruby/oniguruma.h:
regcomp.c:
regenc.[ch]:
regerror.c:
regexec.c:
regint.h:
regparse.[ch]:
enc/ascii.c
cnc/big5.c
cnc/cp949.c
cnc/emacs_mule.c
cnc/encdb.c
cnc/euc_jp.c
cnc/euc_kr.c
cnc/euc_tw.c
cnc/gb18030.c
cnc/gb2312.c
cnc/gbk.c
cnc/iso_8859_1.c
cnc/iso_8859_10.c
Oniguruma ---- (C) K.Kosako <sndgk393 AT ybb DOT ne DOT jp>

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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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http://www.math.keio.ac.jp/matumoto/emt.html
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missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
missing/memmove.c:
missing/strchr.c:
missing/strstr.c:
missing/strtol.c:
missing/tgamma.c:
ext/digest/sha1/sha1.[ch]:

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missing/strlcpy.c
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/*
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 * 
 * Various Unix compatibility functions and NT specific functions.
 * 
 * Some of this code was derived from the MSDOS port(s) and the OS/2 port.
 * 
 */

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*/
1.103 ruby/regex 2.0.0.451

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Version 2, June 1991

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  regen.c[ch]:
  regerror.c:
  regexec.c:
  regint.h:
  regparse.[ch]:
  enc/asci.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
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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/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/strchr.c:
missing/strstr.c:
missing/strtol.c:
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1.104 ruby/ruby-mode.el 2.0.0.451

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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
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TRACEROUTE 1.4
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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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1.123 Xalan C++ 1.10

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1.128 yaml 0.1.5

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1.129 zlib 1.2.5

1.129.1 Available under license:
/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.5, April 19th, 2010

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

*/

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