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1.6 bzip2 1.0.6-8.1ubuntu0.2

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

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1.7 hostname 3.23

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hostname -- set the host name or show the host/domain name

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1.8 libsodium 1.0.18-1.el7.epel

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1.9 ncurses 6.2

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Upstream source https://invisible-island.net/ncurses/ncurses.html
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1.10 xz 5.2.5

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1.11 libffi 3.0.13-19.el7

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1.12 libffi 3.0.13-19.el7

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<signature of Ty Coon>, 1 April 1989
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Version 2.1, February 1999

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1.14 shadow 4.8.1-1

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****

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Version 2, June 1991

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1.16 pcre 8.39-13

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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.

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

For example, if you distribute copies of the library, whether gratis

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

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

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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.)

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

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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.)

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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.)

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

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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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That's all there is to it!

1.20 coreutils 8.32-4+b1

1.20.1 Available under license :

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For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.

States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

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1. Source Code.

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.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

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Version 3, 29 June 2007

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1.23 libyaml 0.2.5

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1.24 adduser 3.118

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

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1.25 pysftp 0.2.9

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1.34 mawk 1.3.4.20200120-2

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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

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

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code. If you link a program with the library, you must provide
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with the library, after making changes to the library and recompiling
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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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

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

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

will lead to faster development of free libraries.

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

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

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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.

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

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it

contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

to use the modified definitions.)

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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certain responsibilities if you distribute copies of the software, or if
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For example, if you distribute copies of such a program, whether
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or can get the source code. And you must show them these terms so they
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Developers that use the GNU GPL protect your rights with two steps:

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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1. Source Code.

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.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to

control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

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You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

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5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your

work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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.

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1.41 libalgorithm-merge-perl 0.08-3

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```
NAME
  Algorithm::Merge - Three-way merge and diff

SYNOPSIS
  use Algorithm::Merge qw(merge diff3 traverse_sequences3);

  @merged = merge(\@ancestor, \@a, \@b, {
              CONFLICT => sub { }
            });

  @merged = merge(\@ancestor, \@a, \@b, {
              CONFLICT => sub { }
            }, $key_generation_function);

  $merged = merge(\@ancestor, \@a, \@b, {
              CONFLICT => sub { }
            });

  $merged = merge(\@ancestor, \@a, \@b, {
              CONFLICT => sub { }
            }, $key_generation_function);

  @diff   = diff3(\@ancestor, \@a, \@b);

  @diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

  $diff   = diff3(\@ancestor, \@a, \@b);

  $diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

  @trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
```

```
            # callbacks
        });

  @trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        }, $key_generation_function);

  $trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        });

  $trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
        }, $key_generation_function);
```

USAGE

This module complements Algorithm::Diff by providing three-way merge and diff functions.

In this documentation, the first list to "diff3", "merge", and "traverse_sequences3" is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in Algorithm::Diff. See Algorithm::Diff for more information.

diff3

Given references to three lists of items, "diff3" performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

```
  original: a b c   e f   h i   k
      left: a b   d e f g   i j k
     right: a b c d e     h i j k

     merge: a b   d e   g   i j k
```

we have the following result from diff3:

```
 [ 'u', a',   'a',   'a' ],
 [ 'u', 'b',   'b',   'b' ],
```

```
[ 'l', 'c',   undef, 'c' ],
[ 'o', undef, 'd',   'd' ],
[ 'u', 'e',   'e',   'e' ],
[ 'r', 'f',   'f',   undef ],
[ 'o', 'h',   'g',   'h' ],
[ 'u', 'i',   'i',   'i' ],
[ 'o', undef, 'j',   'j' ],
[ 'u', 'k',   'k',   'k' ]
```

The first element in each row is the array with the difference:

```
c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged
```

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

merge

Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

```
q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
(@right),
q{<!-- ------  END  CONFLICT ------ -->},
```

traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

A_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

B_DIFF

This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

C_DIFF

This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence

that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

CONFLICT
This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

BUGS
Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO
Algorithm::Diff.

AUTHOR
James G. Smith, <jsmith@cpan.org>

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Found in path(s):
* /opt/cola/permits/1136205593_1613708306.69/0/libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/README
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#
For testing:
#
sub main::diag {

```
  warn join("", @_) , "\n";
}

print join(" ", merge(
#print Data::Dumper -> Dump([
#    merge(
#    #[qw(a b c d       h i j)], # ancestor
#    #[qw(a b c d   f   h i j)], # left
#    #[qw(a b c   e   g      )], # right
  [qw(0 1 2 3 4 7 9 b)],
  [qw(0 6       8 a b)],
  [qw(0 1 2 3 5 8 a b)],
##
  {
     CONFLICT => sub ($$) { (
        q{<}, @{$_[0]}, q{|}, @{$_[1]}, q{>}
     ) },
  },
)), "\n";
#)]), "\n";
#print join(" ", @{
#    [qw(0 1 @ < 3 | # > 6)]
#  }), "\n";

1;
__END__


1;

__END__

=head1 NAME

Algorithm::Merge - Three-way merge and diff

=head1 SYNOPSIS

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
          });

@merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
          }, $key_generation_function);
```

```
$merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
          });

$merged = merge(\@ancestor, \@a, \@b, {
            CONFLICT => sub { }
          }, $key_generation_function);

@diff   = diff3(\@ancestor, \@a, \@b);

@diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

$diff   = diff3(\@ancestor, \@a, \@b);

$diff   = diff3(\@ancestor, \@a, \@b, $key_generation_function);

@trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
          });

@trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
          }, $key_generation_function);

$trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
          });

$trav   = traverse_sequences3(\@ancestor, \@a, \@b, {
            # callbacks
          }, $key_generation_function);


=head1 USAGE

This module complements L<Algorithm::Diff|Algorithm::Diff> by
providing three-way merge and diff functions.

In this documentation, the first list to C<diff3>, C<merge>, and
C<traverse_sequences3> is
called the `original' list.  The second list is the `left' list.  The
third list is the `right' list.

The optional key generation arguments are the same as in
L<Algorithm::Diff|Algorithm::Diff>.  See L<Algorithm::Diff> for more
information.

=head2 diff3
```

Given references to three lists of items, C<diff3> performs a
three-way difference.

This function returns an array of operations describing how the
left and right lists differ from the original list. In scalar
context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

```
 original: a b c   e f   h i   k
     left: a b   d e f g   i j k
    right: a b c d e     h i j k

    merge: a b   d e   g   i j k
```

we have the following result from diff3:

```
[ 'u', 'a',   'a',   'a' ],
[ 'u', 'b',   'b',   'b' ],
[ 'l', 'c',   undef, 'c' ],
[ 'o', undef, 'd',   'd' ],
[ 'u', 'e',   'e',   'e' ],
[ 'r', 'f',   'f',   undef ],
[ 'o', 'h',   'g',   'h' ],
[ 'u', 'i',   'i',   'i' ],
[ 'o', undef, 'j',   'j' ],
[ 'u', 'k',   'k',   'k' ]
```

The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left,
and right arrays respectively that the row refers to (in the synopsis,
these are C<@ancestor>, C<@a>, and C<@b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way
merge. The C<merge> function uses the C<diff3> function to do most of
the work.

The only callback currently used is C<CONFLICT> which should be a
reference to a subroutine that accepts two array references. The
first array reference is to a list of elements from the left list.
The second array reference is to a list of elements from the right list.
This callback should return a list of elements to place in the merged
list in place of the conflict.

The default C<CONFLICT> callback returns the following:

```
q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
(@right),
q{<!-- ------  END  CONFLICT ------ -->},
```

=head2 traverse_sequences3

This is the workhorse function that goes through the three sequences
and calls the callback functions.

The following callbacks are supported.

=over 4

=item NO_CHANGE

This is called if all three sequences have the same element at the
current position. The arguments are the current positions within each
sequence, the first argument being the current position within the
first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two
sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the
first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that
corresponds to the elements at the given positions in the second and
third sequences.

If three arguments, then the element at the given position in the first
sequence is different than the corresponding element in the other two
sequences, but the other two sequences have corresponding elements.

=item B_DIFF

This is called if the second sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item C_DIFF

This is called if the third sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

=back 4

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

L<Algorithm::Diff|Algorithm::Diff>'s implementation of
C<traverse_sequences> may not be symmetric with respect to the input
sequences if the second and third sequence are of different lengths.
Because of this, C<traverse_sequences3> will calculate the diffs of
the second and third sequences as passed and swapped. If the differences
are not the same, it will issue an `Algorithm::Diff::diff is not symmetric
for second and third sequences...' warning. It will try to handle
this, but there may be some cases where it can't.

=head1 SEE ALSO

L<Algorithm::Diff>.

=head1 AUTHOR

James G. Smith, <jsmith@cpan.org>

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Found in path(s):
* /opt/cola/permits/1136205593_1613708306.69/0/libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/Merge.pm

1.42 xxhash 0.8.0-2

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1.43 findutils 4.8.0-1

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1.44 libpsl 0.21.0-1.2

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1.45 debianutils 4.11.2

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1.46 libidn 2.3.0-5

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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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.

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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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<one line to give the program's name and a brief idea of what it does.>
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1.51 libedit 3.1-20191231-2+b1

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1.52 npth 1.6-3

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1.55 tar 1.34+dfsg-1

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1.57 libcbor 0.5.0+dfsg-2

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1.58 nghttp2 1.43.0-1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.59 libiconv 0.0.20021209-11

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Version 3, 29 June 2007

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1.62 ply 3.11

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PLY (Python Lex-Yacc) Version 3.11

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex
and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY

to be similar.

- PLY provides *very* extensive error reporting and diagnostic
  information to assist in parser construction. The original
  implementation was developed for instructional purposes. As
  a result, the system tries to identify the most common types
  of errors made by novice users.

- PLY provides full support for empty productions, error recovery,
  precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
  better suited to large grammars, and which has a number of nice
  properties when dealing with syntax errors and other parsing problems.
  Currently, PLY builds its parsing tables using the LALR(1)
  algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers.
  This greatly simplifies the task of parser construction since it reduces
  the number of files and eliminates the need to run a separate lex/yacc
  tool before running your program.

- PLY can be used to build parsers for "real" programming languages.
  Although it is not ultra-fast due to its Python implementation,
  PLY can be used to parse grammars consisting of several hundred
  rules (as might be found for a language like C). The lexer and LR
  parser are also reasonably efficient when parsing typically
  sized programs. People have used PLY to build parsers for
  C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained
within the 'ply' directory which may also be used as a Python package.
To use PLY, simply copy the 'ply' directory to your project and import
lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py
individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use
the system.

The example directory contains several different examples including a
PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============
PLY requires the use of Python 2.6 or greater. However, you should
use the latest Python release if possible. It should work on just
about any platform. PLY has been tested with both CPython and Jython.
It also seems to work with IronPython.

Resources
=========
More information about PLY can be obtained on the PLY webpage at:

    http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent
book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and
Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown
may also be useful.

The GitHub page for PLY can be found at:

    https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

    http://groups.google.com/group/ply-hack

Acknowledgments
===============
A special thanks is in order for all of the students in CS326 who
suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs
and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# -----------------------------------------------------------------------------
# calc.py
#
# A simple calculator with variables.
# -----------------------------------------------------------------------------

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
    )

# Tokens

t_PLUS    = r'\+'
t_MINUS   = r'-'
t_TIMES   = r'\*'
t_DIVIDE  = r'/'
t_EQUALS  = r'='
t_LPAREN  = r'\('
t_RPAREN  = r'\)'
t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
```

```
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    )

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''
    if p[2] == '+'  : p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
```

```
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')   # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)
```

Bug Reports and Patches
==========
My goal with PLY is to simply have a decent lex/yacc implementation
for Python. As a general rule, I don't spend huge amounts of time
working on it unless I receive very specific bug reports and/or
patches to fix problems. I also try to incorporate submitted feature
requests and enhancements into each new version. Please visit the PLY
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-- Dave

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1.63 fontconfig 2.13.1-4.2

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1.64 sqlite 3.34.1-3

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1.65 libxau 1.0.9-1

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1.66 gpm 1.20.7-8

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1.67 libxext 1.3.3-1.1

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1.68 libjpeg-turbo 2.0.6-4

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1.69 sensible-utils 0.0.14

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1.70 libxcb 1.14-3

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1.71 gdbm 1.19-2

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1.72 cracklib 2.9.6-3.4

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1.73 file 5.39-3

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1.74 e2fsprogs 1.46.2-2

1.74.1 Available under license :

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

```
all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM) -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
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===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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

It is part of the main e2fsprogs distribution, which can be found at:

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1.75 lsb 11.1.0

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```
#
# These procedures come from the source code of GFun.
#
getname:=proc(yofz::function(name), y, z)
 y:=op(0,yofz);
```

```
 if type(y,'procedure') then error `not an unassigned name`,y fi;
 z:=op(yofz)
end proc:


#
# returns the smallest i such that u(n+i) appears in a recurrence
#
minindex := proc(rec,u,n)
 min(op(map(op,indets(rec,'specfunc'('linear'(n),u)))))-n
end proc:


#
# returns the largest i such that u(n+i) appears in a recurrence
#
maxindex := proc(rec,u,n)
 max(op(map(op,indets(rec,'specfunc'('linear'(n),u)))))-n
end proc:


#
# A recurrence of the form a(n+d) = p(n)/q(n) a(n) is represented through a record:
# OneTermRecurrence : record(order, numerator, denominator)
#
`type/OneTermRecurrence` := 'record(order, numerator, denominator)':


#
#checkOneTermRecurrence
# Input: a recurrence rec (either with or without initial conditions).
#          If it has initial conditions, they are ignored.
#        a(n): the name of the sequence and the name of the variable.
#
# Output:
# This procedure checks that rec is a recurrence of the form a(n+d) = p(n)/q(n) a(n)
# If the check succeeds, it returns the corresponding record. If it fails, an error is
# returned.
#
checkOneTermRecurrence := proc(rec, aofn)::OneTermRecurrence;
 local r, d, a, n, term1, term2, res;

 getname(aofn, a, n):
 if type(rec, 'set') then
   r:=select(has, rec, n);
   if nops(r)>1
     then error `invalid recurrence`, rec
   fi:
```

```
  if nops(r)=0
    then error "%1 does not appear in the recurrence", n
  fi:
  r := op(r):
 else r:=rec:
 fi:
 if type(r,`=`)
  then r:=op(1,r)-op(2,r)
 fi:
 if indets(r,'specfunc'('anything',a)) <> indets(r,'specfunc'('linear'(n),a))
  then error "the recurrence contains elements that are not linear in %1", n
 fi:
 if nops(r) <> 2
  then error "the recurrence contains %1 terms (expected 2)", nops(r)
 fi:
 r := subs(n=n-minindex(r, a, n), r):
 d := maxindex(r, a, n):

 term1 := select(has, r, a(n)):
 term2 := select(has, r, a(n+d)):

 res := factor( -(term1/a(n)) / (term2/a(n+d)) ):

 Record( 'order'=d, 'numerator' = numer(res), 'denominator' = denom(res) )
end proc:


#
# my_factors factorizes p the same way as factors(p) would do except that the constant part is computed
# differently. We assume here that p has integer coefficients, and we want to factorize it over polynomials
# with integer coefficients. my_factors ensures that the factors have integer coefficients.
#
my_factors := proc(p)
 local L, c, fact, i, my_c, my_fact, q:
 L := factors(p):
 c := L[1]: fact := L[2]:
 my_c := c: my_fact := []:
 for i from 1 to nops(fact) do
  q := denom(fact[i][1]):
  my_fact := [ op(my_fact), [ fact[i][1]*q, fact[i][2] ] ]:
  my_c := my_c / (q^fact[i][2]):
 od:
 [ my_c, my_fact]:
end proc:


#
# This procedure decomposes a one-term recurrence with the following form:
```

```
# a(n+d) = c * s1(n)/s1(n+d) * s2(n+d)/s2(n) * p(n)/q(n) * a(n)
#
# Known issue: this procedure assumes that the only variables involved are n and x with their usual meaning.
#
decomposeOneTermRecurrence := proc(formalRec::OneTermRecurrence, res_cste, res_s1, res_s2, res_p, res_q)
 local p, q, cste, s1, s2, d, L, i, tmp, exponent, r, polyring;
 p := formalRec:-numerator:
 q := formalRec:-denominator:
 d := formalRec:-order:
 s1 := 1:
 L := op(2,my_factors(p)): # L contains the non trivial factors of p
 for i from 1 to nops(L) do
   tmp := L[i][1]: exponent := L[i][2]:
   r := gcd(tmp^exponent, subs(n=n-d, q)):
   p := quo(p,r,n): q := quo(q, subs(n=n+d, r),n): s1 := s1 * r:
 od:

 s2 := 1:
 L := op(2,my_factors(p)): # L contains the *remaining* non trivial factors of p
 for i from 1 to nops(L) do
   tmp := L[i][1]: exponent := L[i][2]:
   r := gcd(tmp^exponent, subs(n=n+d, q)):
   p := quo(p, r, n): q := quo(q, subs(n=n-d, r), n): s2 := s2 * r:
 od:

 # Finally we look for the constant part (with respect to n) of p/q
 cste := op(1, my_factors(p))/op(1, my_factors(q)):
 p := p/op(1, my_factors(p)): q := q/op(1, my_factors(q)):
 polyring := RegularChains[PolynomialRing]([n,x]):
 L := op(2, my_factors(p)):
 for i from 1 to nops(L) do
   if RegularChains[MainVariable](L[i][1], polyring) = x
     then cste := cste * L[i][1]^L[i][2]: p := quo(p,L[i][1]^L[i][2],x):
   fi:
 od:
 L := op(2, my_factors(q)):
 for i from 1 to nops(L) do
   if RegularChains[MainVariable](L[i][1], polyring) = x
     then cste := cste / L[i][1]^L[i][2]: q := quo(q,L[i][1]^L[i][2],x):
   fi:
 od:

 res_cste := cste;
 res_s1 := s1;
 res_s2 := s2;
 res_p := simplify(p);
 res_q := simplify(q);
end proc:
```

```
#
#coeffrecToTermsrec
# Input: a linear recurrence rec (either with or without initial conditions).
#          a(n): the name of the sequence and the name of the variable.
#          x: a value or symbolic name
#
# Output:
# The recurrence satisfied by a(n)*x^n. Note that this recurrence is also denoted by a(n).
# If initial conditions were provided, corresponding initial conditions are computed.
#
coeffrecToTermsrec := proc(rec, aofn, x)
 local a,n,L,r,cond,d,i,tmp,c,res;
 getname(aofn, a, n):
 if type(rec, 'set') then
   L := selectremove(has, rec, n):
   r := L[1]:
   if nops(r)>1
     then error `invalid recurrence`, rec
   fi:
   if nops(r)=0
     then error "%1 does not appear in the recurrence", n
   fi:
   r := op(r):
   cond := L[2]:
 else r := rec:
 fi:
 d := maxindex(r, a, n):
 L := indets(r,'specfunc'('linear'(n),a)):
 if indets(r,'specfunc'('anything',a)) <> L
   then error "the recurrence contains elements that are not linear in %1", n
 fi:
 L := map(op, L):
 for i from 1 to nops(L) do
   r := subs(a(op(i,L))=a(op(i,L))*x^(d-op(i,L)+n), r):
 od:
 if cond<>'cond' then
   c := {}:
   for i from 1 to nops(cond) do
     tmp := op(i, cond): # tmp should have the form 'a(k) = cste'
     if not type(tmp,'`=`') then error "Invalid initial condition: %1", tmp: fi:
     L := selectremove(has, {op(tmp)}, a):
     if (nops(L[1]) <> 1) or (nops(L[2])<>1)
       then error "Invalid initial condition: %1", tmp:
     fi:
     tmp := op(1, L[1]): # tmp has the form 'a(k)'
     c := {op(c), tmp = op(1, L[2])*x^op(tmp)}:
```

```
  od:
  res := {r, op(c)}:
 else res := r:
 fi:
 res:
end proc:


#
# This procedure removes the conditions of the form a(k)=0 from the initial conditions of rec
# It returns a list L = [L1, L2, ...] where Li = [k, expr] representing the condition a(k)=expr.
# Moreover, it asserts that the Li are ordered by increasing k.
#
removeTrivialConditions := proc(rec, aofn)
 local a,n,i,L,tmp,c,cond,k:
 getname(aofn, a, n):
 if not type(rec, 'set') then
  error "%1 is not a recurrence with initial conditions", rec
 else
  L := selectremove(has, rec, n):
  cond := L[2]:
  if nops(cond)=0
    then error "%1 does not contain initial conditions", rec
  fi:
 fi:
 c := []:
 for i from 1 to nops(cond) do
  tmp := op(i, cond): # tmp should have the form 'a(k) = cste'
  if not type(tmp,'`=`') then error "Invalid initial condition: %1", tmp: fi:
  L := selectremove(has, {op(tmp)}, a):
  if (nops(L[1]) <> 1) or (nops(L[2])<>1)
    then error "Invalid initial condition: %1", tmp:
  fi:
  if op(1, L[2])<>0 then c := [op(c), [op(op(1, L[1])), op(1, L[2])]]: fi:
 od:
 # We check that the conditions are ordered by increasing k.
 if (nops(c)=0) then return c: fi:
 k := c[1][1]:
 for i from 2 to nops(c) do
  if (c[i][1]<=k)
  then error "Unexpected error in removeTrivialConditions: the conditions are not correctly ordered (%1)\n", c
  else k := c[i][1]
  fi:
 od:
 c:
end proc:
```

```
#
# findFixpointOfDifferences: takes a set L of integer and returns the smallest set S
# containing L and such that for each i, S[i]-S[i-1] \in S
findFixpointOfDifferences := proc(L)
 local res, i:
 res := L:
 for i from 2 to nops(L) do
   res := { op(res), L[i]-L[i-1] }:
 od:
 if (res=L) then return res else return findFixpointOfDifferences(res) fi:
end proc:


#
# error_counter functions allows one to follow the accumulation of errors in each variable.
#   an error_counter is a list of the form [[var1, c1], [var2, c2], ... ]
#   where the vari are variable names and the ci indicate how many approximation errors
#   are accumulated in vari.
#

#
# This procedure initializes the counter associated with variable var to 1 (and creates it if needed.)
# It returns an up-to-date error_counter.
init_error_counter := proc (var, error_counter)
 local i, res:
 res  := error_counter:
 for i from 1 to nops(res) do
   if (res[i][1]=var)
   then res[i][2] := 1:
        return res:
   fi
 od:
 res := [op(res), [var, 1]]:
end:


#
# This procedure adds a given number to the counter associated with variable var.
# It returns an up-to-date error_counter.
add_to_error_counter := proc (var, n, error_counter)
 local i, res:
 res  := error_counter:
 for i from 1 to nops(res) do
   if (res[i][1]=var)
   then res[i][2] := res[i][2]+n:
        return res:
   fi
 od:
```

```
 res := [op(res), [var, n]]:
end proc:

#
# This procedure sets the value of the counter associated with variable var.
# It returns an up-to-date error_counter.
set_error_counter := proc(var, n, error_counter)
 local i,err:
 err  := error_counter:
 for i from 1 to nops(err) do
   if (err[i][1]=var)
   then err[i][2] := n:
        return err:
   fi
 od:
 err := [op(err), [var, n]]:
end proc:

#
# This procedure initializes the counter associated to the multiplication of var2 and var3,
# putting the result in variable var1.
# It returns an up-to-date error_counter.
error_counter_of_a_multiplication := proc (var1, var2, var3, error_counter)
 local i, res, c2, c3:
 c2 := 0: c3 := 0:
 for i from 1 to nops(error_counter) do
   if (error_counter[i][1]=var2) then c2 := error_counter[i][2] fi:
   if (error_counter[i][1]=var3) then c3 := error_counter[i][2] fi:
   if (error_counter[i][1]=var1)
   then
     res := [ op(error_counter[1..i-1]), op(error_counter[i+1..nops(error_counter)]) ]
   fi:
 od:
 if (res = 'res') then res := error_counter fi:
 res := [op(res), [var1, c2+c3+1]]:
end:

#
# Copies the error counter of var2 into var1
error_counter_on_copy := proc(var1, var2, error_counter)
 local i, err, c2:
 c2 := 0:
 for i from 1 to nops(error_counter) do
   if (error_counter[i][1] = var2) then c2 := error_counter[i][2] fi:
   if (error_counter[i][1] = var1)
   then
     err := [ op(error_counter[1..i-1]), op(error_counter[i+1..nops(error_counter)]) ]
   fi:
```

```
 od:
 if (err = 'err') then err := error_counter fi:
 if (c2 <> 0) then err := [op(res), [var1, c2]] fi:
end proc:


#
# Returns the value of the error counter associated to a variable
find_in_error_counter := proc(var, error_counter)
 local i:
 for i from 1 to nops(error_counter) do
   if (error_counter[i][1] = var) then return error_counter[i][2] fi:
 od:
 return 0:
end proc:

#
# generate_multiply_rational(fd, var1, var2, r, error_counter, indent) generates code for performing
# var1 = var2*r in MPFR
#   fd is the file descriptor in which the code shall be produced.
#   var1 and var2 are strings representing variable names. r is a Maple rational number.
#   error_counter is an error_counter (as described above).
#   indent is an optional argument. It is a string used to correctly indent the code. It is prefixed to any
#   generated line. Hence, if indent="  ", the generated code will be indented by 2 spaces.
# An up-to-date error_counter is returned.
generate_multiply_rational := proc(fd, var1, var2, r, error_counter, indent:="")
 local p,q,err:
 err := error_counter:
 if (whattype(r)<>'fraction') and (whattype(r)<>'integer')
 then error "generate_multiply_rational used with non rational number %1", r: fi:
 if (abs(r)=1)
 then
   if (var1=var2)
   then
     if (r<>1) then fprintf(fd, "%sMPFR_CHANGE_SIGN (%s);\n", indent, var1) fi:
     return err:
   else
     if (r=1)
       then fprintf(fd, "%smpfr_set (%s, %s, MPFR_RNDN);\n", indent, var1, var2):
       else fprintf(fd, "%smpfr_neg (%s, %s, MPFR_RNDN);\n", indent, var1, var2):
     fi:
     return error_counter_on_copy(var1, var2, err):
   fi
 fi:
 # Now, r is a rational number different from 1.
 p := numer(r): q := denom(r):
 if (abs(p)<>1)
 then
```

```
  fprintf(fd, "%smpfr_mul_si (%s, %s, %d, MPFR_RNDN);\n", indent, var1, var2, p):
  err := error_counter_of_a_multiplication(var1, var2, "", err):
  if(q<>1)
  then
    fprintf(fd, "%smpfr_div_si (%s, %s, %d, MPFR_RNDN);\n", indent, var1, var1, q):
    err := error_counter_of_a_multiplication(var1, var1, "", err):
  fi:
 else
  fprintf(fd, "%smpfr_div_si (%s, %s, %d, MPFR_RNDN);\n", indent, var1, var2, p*q):
  err := error_counter_of_a_multiplication(var1, var2, "", err):
 fi:
 return err:
end proc:


#
# generate_multiply_poly is the same as generate_multiply_rational but when r is a rational fraction.
# The fraction r must have the form p/q where p and q are polynomials with integer coefficients.
# Moreover, the gcd of the coefficients of p must be 1. Idem for q.
# The procedure returned a list [m, d, err] where m is the set of indices k such that
# a mpfr_mul_sik function is needed and idem for d with mpfr_div_sik.
# err is an up-to-date error counter.
generate_multiply_poly := proc(fd, var1, var2, r, error_counter, indent:="")
 local p,q,Lp,Lq,n,i,j,var, required_mulsi, required_divsi, err:
 err := error_counter:
 required_mulsi := {}:
 required_divsi := {}:
 p := numer(r): q := denom(r):
 Lp := my_factors(p): Lq := my_factors(q):
 if (Lp[1] <> 1)
  then error "generate_multiply_poly: an integer can be factored out of %1", p:
 fi:
 if (Lq[1] <> 1)
  then error "generate_multiply_poly: an integer can be factored out of %1", q:
 fi:
 Lp := Lp[2]: Lq := Lq[2]:
 var := var2:
 if (nops(Lp) <> 0)
 then
  n := 0:
  for i from 1 to nops(Lp) do n := n + Lp[i][2] od:
  if (n=1)
  then
    fprintf(fd, "%smpfr_mul_si (%s, %s", indent, var1, var):
  else
    required_mulsi := { op(required_mulsi), n }:
    fprintf(fd, "%smpfr_mul_si%d (%s, %s", indent, n, var1, var):
  fi:
```

```
  for i from 1 to nops(Lp) do
    for j from 1 to Lp[i][2] do
      fprintf(fd, '', %a'', Lp[i][1]):
    od:
  od:
  fprintf(fd, '', MPFR_RNDN);\n''):
  err := set_error_counter(var1, n+find_in_error_counter(var, err) , err):
  var := var1:
 fi:
 if (nops(Lq) <> 0)
 then
  n := 0:
  for i from 1 to nops(Lq) do n := n + Lq[i][2] od:
  if (n=1)
  then
    fprintf(fd, ''%smpfr_div_si (%s, %s'', indent, var1, var):
  else
    required_divsi := { op(required_divsi), n }:
    fprintf(fd, ''%smpfr_div_si%d (%s, %s'', indent, n, var1, var)
  fi:
  for i from 1 to nops(Lq) do
    for j from 1 to Lq[i][2] do
      fprintf(fd, '', %a'', Lq[i][1])
    od:
  od:
  fprintf(fd, '', MPFR_RNDN);\n''):
  err := set_error_counter(var1, n+find_in_error_counter(var, err) , err):
  var := var1:
 fi:
 if (var1 <> var) then
  fprintf(fd, ''%smpfr_set (%s, %s, MPFR_RNDN);\n'', indent, var1, var):
  err := set_error_counter(var1, find_in_error_counter(var, err) , err):
 fi:
 return [required_mulsi, required_divsi, err]:
end proc:


#
# This function generates the code of a procedure mpfr_mul_uin or mpfr_div_uin
#
generate_muldivsin := proc(op, n)
 local i, var:
 if ((op <> ''mul'') and (op <> ''div''))
  then error ''Invalid argument to generate_muldivuin (%1). Must be 'mul' or 'div'', op
 fi:
 if (whattype(n) <> 'integer')
 then error ''Invalid argument to generate_muldivuin (%1). Must be an integer.'', n
 fi:
```

```
if (op="mul") then var := "MUL" else var := "DIV" fi:

printf("__MPFR_DECLSPEC void mpfr_div_si%d _MPFR_PROTO((mpfr_ptr, mpfr_srcptr,\n", n):
for i from n to 2 by -2 do
  printf("                                long int, long int,\n"):
od:
if (i=1)
then
  printf("                                long int, mpfr_rnd_t));\n"):
else
  printf("                                mpfr_rnd_t));\n")
fi:

printf("\n\n\n"):
printf("void\n"):
printf("mpfr_%s_si%d (mpfr_ptr y, mpfr_srcptr x,\n", op, n):
for i from n to 2 by -2 do
  printf("            long int v%d, long int v%d,\n", n-i+1, n-i+2):
od:
if (i=1)
then
  printf("            long int v%d, mpfr_rnd_t mode)\n", n):
else
  printf("            mpfr_rnd_t mode)\n")
fi:
printf("{\n"):
printf("  long int acc = v1;\n"):
printf("  mpfr_set (y, x, mode);\n"):
 for i from 2 to n do
  printf("  MPFR_ACC_OR_%s (v%d);\n", var, i):
od:
printf("  mpfr_%s_si (y, y, acc, mode);\n", op):
printf("}\n"):
return:
end proc:
# convert from Gonnet's FPAccuracy data sets to mpfr format
# http://www.inf.ethz.ch/personal/gonnet/FPAccuracy/all.tar.Z

# 1 - cut the lines from (say) C/acos.c, remove the 3rd (eps) field,
#     replace the commata ',' by spaces, and remove the final '};'
#     (hint: cut -d" " -f1,2,4,5 /tmp/acos.c > /tmp/acos2.c)
# 2 - edit the infile and outfile lines below, and run
#     maple -q < gonnet.mpl

infile := "/tmp/acos2.c":
outfile := "acos":
```

```
###################### don't edit below this line ############################

foo := proc(arg_m, val_m, arg_e, val_e, fp)
  fprintf (fp, "53 53 n ", 53);
  to_hex(arg_m, arg_e, fp);
  fprintf (fp, " ");
  # warning: Gonnet stores -val_e
  to_hex(val_m, -val_e, fp);
  fprintf (fp, "\n");
end:

to_hex := proc(m, e, fp)
  if m<0 then fprintf (fp, "-") fi;
  fprintf (fp, "0x%sp%d", convert(abs(m),hex), e);
end:

copyright := proc(fp)
  fprintf (fp, "# This file was generated from the FPAccuracy package\n#
http://www.inf.ethz.ch/personal/gonnet/FPAccuracy/all.tar.Z:\n# Copyright (C) Gaston H. Gonnet\n# This program
is free software; you can redistribute it and/or\n# modify it under the terms of the GNU General Public License\n#
as published by the Free Software Foundation; either version 2\n# of the License, or (at your option) any later
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Public License\n# along with this program; if not, write to the Free Software\n# Foundation, Inc., 59 Temple Place -
Suite 330, Boston, MA  02111-1307, USA.\n")
end:

fp := fopen (outfile, WRITE):

l := readdata(infile, integer, 4):
copyright(fp):
for e in l do foo(op(e), fp) od:

fclose (fp);

quit;
```

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read("metaMPFR_common.mpl"):

FUNCTION_SERIES := 0:
FUNCTION_SERIES_RATIONAL := %+1:
CONSTANT_SERIES := %+1:

##
######################### We can now generate the code #########################
##

```
# This procedure generate code for a straightforward evaluation of the series
# corresponding to a recurrence.
#   rec is a recurrence with inital conditions
#   type can take three values, depending on which series should be evaluated:
#     FUNCTION_SERIES -> produces code for evaluating sum( a(i)*x^i )
#     FUNCTION_SERIES_RATIONAL -> produces code for evaluating sum( a(i)*(p/q)^i )
#     CONSTANT_SERIES -> produces code for evaluating sum( a(i) )
#   name is the name the should be given to the produced procedure.
#   fofx is an optional parameter. It is the function being implemented.
#     -> if provided, this argument will be used to (heuristically) find the limits
#        of the function at +/-oo and find its asymptotical behavior.
#   *IMPORTANT NOTE*: it must be a function of the variable 'x'.
#                     Moreover, neither _f nor x shall be assigned at the time of
#                     calling the function
#
generateStraightforwardAlgo := proc(rec, aofn, type, name, filename, fofx := _f(x))
 local a, b, n, fd, init_cond, nc, d, exponents, formalRec, c, s1, s2, p, q, hardconstant, f0, i0, ri0, i, j, var, var1, var2,
var3, guard_bits, required_mulsi, required_divsi, temp, error_counter, error_in_loop, maxofti, additional_error:

 getname(aofn, a, n):

 required_mulsi := {}:
 required_divsi := {}:
 fd := fopen(filename, WRITE):

 # We check that we have a recurrence of the form a(n+d)=r(n)*a(n)
 # and we extract its canonical form:
 #    a(n+d) = c * s1(n)/s1(n+d) * s2(n+d)/s2(n) * p(n)/q(n) * a(n)
 #
 formalRec := checkOneTermRecurrence(rec, a(n)):
 decomposeOneTermRecurrence(formalRec, c, s1, s2, p, q):
 d := formalRec:-order:

 # We keep only non-trivial inital conditions
 init_cond := removeTrivialConditions(rec, a(n));
 nc := nops(init_cond):
 exponents := {1, d}:
 for i from 1 to nc do
   exponents := { op(exponents), init_cond[i][1] }
 od:
 exponents := findFixpointOfDifferences(exponents):
 exponents := exponents minus {0}:

 error_counter := []:

 fprintf(fd, "/* Evaluation by a straightforward algorithm */\n"):
 fprintf(fd, "/* Code automatically generated by metaMPFR. */\n"):
```

```
fprintf(fd, "static int\n"):
if (type=FUNCTION_SERIES)
  then fprintf(fd, "mpfr_%a (mpfr_ptr res, mpfr_srcptr x, mpfr_rnd_t rnd)\n", name):
elif (type=FUNCTION_SERIES_RATIONAL)
  then fprintf(fd, "mpfr_%a (mpfr_ptr res, int u, int v, mpfr_rnd_t rnd)\n", name):
elif (type=CONSTANT_SERIES)
  then fprintf(fd, "mpfr_%a (mpfr_ptr res, mpfr_rnd_t rnd)\n", name):
fi:
fprintf(fd, "{\n"):


########################################################
#################### Declarations ####################
########################################################

fprintf(fd, "  MPFR_ZIV_DECL (loop);\n"):
fprintf(fd, "  MPFR_SAVE_EXPO_DECL (expo);\n"):
fprintf(fd, "  mpfr_prec_t wprec;             /* working precision */\n"):
fprintf(fd, "  mpfr_prec_t prec;              /* target precision */\n"):
fprintf(fd, "  mpfr_prec_t err;               /* used to estimate the evaluation error */\n"):
fprintf(fd, "  mpfr_prec_t correctBits;       /* estimates the number of correct bits*/\n"):
fprintf(fd, "  unsigned long int k;\n"):
fprintf(fd, "  unsigned long int conditionNumber;        /* condition number of the series */\n"):
fprintf(fd, "  unsigned assumed_exponent;     /* used as a lowerbound of -EXP(f(x)) */\n"):
fprintf(fd, "  int r;                         /* returned ternary value */\n"):
fprintf(fd, "  mpfr_t s;                      /* used to store the partial sum */\n"):

if (whattype(c) = 'fraction') or (whattype(c) = 'integer')
  then hardconstant := 0
  else hardconstant := 1
fi:
if (type=FUNCTION_SERIES) then hardconstant := 1 fi:

if (hardconstant=1)
then
  if (type=CONSTANT_SERIES)
    then fprintf(fd, "  mpfr_t x%d;                    /* used to store %a */\n", d, c):
  elif (type=FUNCTION_SERIES_RATIONAL)
    then fprintf(fd, "  mpfr_t x%d;                    /* used to store %a */\n", d, c*(u/v)^d):
  elif (type=FUNCTION_SERIES)
    then fprintf(fd, "  mpfr_t x%d;                    /* used to store %a */\n", d, c*x^d):
  fi:
fi:

if (type=FUNCTION_SERIES)
then
  fprintf(fd, "  mpfr_t tmp;\n"):
  if (nops(exponents)-1 >= 1) then fprintf(fd, "  mpfr_t ") fi:
```

```
  for i from 1 to nops(exponents)-1 do
    fprintf(fd, "x%d", exponents[i]):
    if (i<nops(exponents)-1) then fprintf(fd, ", ") else fprintf(fd, ";                  /* used to store x^i */\n") fi
  od:
 fi:

 fprintf(fd, "  mpfr_t ");
 for i from 1 to nc do
  fprintf(fd, "tip%d", init_cond[i][1]):
  if (i<nc) then fprintf(fd, ", ") else fprintf(fd, "; /* used to store successive values of t_i */\n") fi:
 od:
 fprintf(fd, "  int "):
 for i from 1 to nc do
  fprintf(fd, "test%d", init_cond[i][1]):
  if (i<nc) then fprintf(fd, ", ") else fprintf(fd, ";\n") fi:
 od:
 fprintf(fd, "  int global_test;              /* used to test when the sum can be stopped */"):

 fprintf(fd, "\n"):
 fprintf(fd, "  /* Logging */\n"):
 if (type=FUNCTION_SERIES)
  then fprintf(fd, "  MPFR_LOG_FUNC ( (\"x[%%#R]=%%R rnd=%%d\", x, x, rnd), (\"res[%%#R]=%%R\", res,
res) );\n\n")
 elif (type=FUNCTION_SERIES_RATIONAL)
  then fprintf(fd, "  MPFR_LOG_FUNC ( (\"x=u/v with u=%%d and v=%%d, rnd=%%d\", u, v, rnd),
(\"res[%%#R]=%%R\", res, res) );\n\n")
 else fprintf(fd, "  MPFR_LOG_FUNC ( (\"rnd=%%d\", rnd), (\"res[%%#R]=%%R\", res, res) );\n\n")
 fi:


 ########################################################
 ##################### Special cases ####################
 ########################################################

 if ( (type=FUNCTION_SERIES) or (type=FUNCTION_SERIES_RATIONAL) )
 then
  fprintf(fd, "  /* Special cases */\n"):

  if (type=FUNCTION_SERIES)
   then fprintf(fd, "  if (MPFR_UNLIKELY (MPFR_IS_NAN (x)))\n")
   else fprintf(fd, "  if (MPFR_UNLIKELY (v==0))\n")
  fi:
  fprintf(fd, "    {\n"):
  fprintf(fd, "      MPFR_SET_NAN (res);\n"):
  fprintf(fd, "      MPFR_RET_NAN;\n"):
  fprintf(fd, "    }\n"):

  if (init_cond[1][1] > 0) then f0 := 0 else f0 := init_cond[1][2] fi:
```

```
  if (type=FUNCTION_SERIES)
    then fprintf(fd, "  if (MPFR_UNLIKELY (MPFR_IS_ZERO (x)))\n")
    else fprintf(fd, "  if (MPFR_UNLIKELY (u==0))\n")
  fi:
  if (whattype(f0) = 'integer')
  then
    fprintf(fd, "    {\n"):
    fprintf(fd, "      return mpfr_set_si (res, %a, rnd);\n", f0):
    fprintf(fd, "    }\n")
  else
    printf("You need to provide a function mpfr_%a0(mpfr_t, mpfr_rnd_t) that evaluates %a with correct
rounding\n", name, f0):
    fprintf(fd, "    {\n"):
    fprintf(fd, "      return mpfr_%a0 (res, rnd);\n", name):
    fprintf(fd, "    }\n")
  fi:

  if (type=FUNCTION_SERIES)
  then
    fprintf(fd, "  if (MPFR_UNLIKELY (MPFR_IS_INF (x)))\n"):
    fprintf(fd, "    {\n"):
    for i from -1 to 1 by 2 do  # Trick to handle both -oo and +oo
      if (i<0)
        then fprintf(fd, "      if (MPFR_IS_NEG (x))\n"):
        else fprintf(fd, "      else\n")
      fi:
      fprintf(fd, "        {\n"):
      if (i<0) then f0 := "m" else f0 := "p" fi:
      if (fofx <> _f(x))
      then
        f0 := limit(fofx, x=i*infinity):
        if (whattype(f0)='integer')
        then fprintf(fd, "          return mpfr_set_si (res, %a, rnd);\n", f0):
        elif (f0 = infinity) or (f0 = -infinity)
        then
          fprintf(fd, "          MPFR_SET_INF(res);\n"):
          if (f0>0)
          then fprintf(fd, "          MPFR_SET_POS(res);\n")
          else fprintf(fd, "          MPFR_SET_NEG(res);\n")
          fi:
          fprintf(fd, "          MPFR_RET(0);\n"):
        else
          if (i<0) then f0 := "m" else f0 := "p" fi:
        fi:
      fi:
      if ((f0 = "p") or (f0 = "m"))
      then
        printf("You need to provide a function mpfr_%a%sinf(mpfr_t, mpfr_rnd_t) that evaluates lim(f(x), x=", name,
```

```
f0):
        if (f0 = "m") then printf("-") fi:
        printf("inf) with correct rounding.\n"):
        fprintf(fd, "          return mpfr_%a%sinf (res, rnd);\n", name, f0)
      fi:
      fprintf(fd, "        }\n")
    od:
    fprintf(fd, "    }\n")
  fi:
fi:


#########################################################
################## Precomputations ######################
#########################################################

fprintf(fd, "\n"):
fprintf(fd, "  /* Save current exponents range */\n"):
fprintf(fd, "  MPFR_SAVE_EXPO_MARK (expo);\n\n"):

if ( (type=FUNCTION_SERIES) or (type=FUNCTION_SERIES_RATIONAL) )
then  fprintf(fd, "  /* FIXME: special case for large values of |x| ? */\n\n")
fi:

# Note : prec is the value such that we will try to compute an approximation
# with relative error smaller than 2^(1-prec).
# Several things may happen:
#   1) We do not achieve the intended error: this is because we badly estimated the exponent of the result
#   2) We achieve the error, but it is not sufficient to decide correct rounding (Ziv's bad case)
# Against 1), we can try to make our estimate of the exponent better with any heuristic.
# Against 2), we can consider more guard bits. 11 guard bits seem a good value for the beginning
#   (statistically, we expect to fail in less than 0.1 % of the cases)
# wprec is the precision used during the computation, in order to ensure the final relative error 2^(1-prec)
#
fprintf(fd, "  /* We begin with 11 guard bits */\n"):
fprintf(fd, "  prec = MPFR_PREC (res) + 11;\n"):
fprintf(fd, "  MPFR_ZIV_INIT (loop, prec);\n"):

# TODO: the value here can be chosen completely heursitically. We could do something much better
# when fofx is known by using asympt(fofx, x, 1). A clean implementation appears to be complex though.
# We must catch errors if the development does not exist (e.g. AiryAi(-x));
# We must find a separation after which the asymptotic behavior is valid (e.g. x>1)
printf("The code contains a variable assumed_exponent arbitrarily set to 10. You can put any value heuristically
chosen. The closer it is to -log_2(|f(x)|), the better it is.\n"):
fprintf(fd, "  assumed_exponent = 10; /* TIP: You can put any value heuristically chosen. The closer it is to -
log_2(|f(x)|), the better it is */\n"):

# TODO: find a way of putting a rigorous value here.
```

```
 # This value *must* be rigorous: the safety of the implementation relies on it.
 # Precisely, we need to have sum(|a(i)*x^i|) <= 2^conditionNumber
 fprintf(fd, "  conditionNumber = xxx; /* FIXME: set a value such that sum(|a(i)*x^i|) <= 2^conditionNumber
*/\n"):
 printf("The code contains a variable conditionNumber that you must manually set to a suitable value, in order to
ensure that sum_{i=0}^{infinity} |a(i)*x^i| <= 2^conditionNumber\n"):
 fprintf(fd, "  wprec = prec + ERRORANALYSISPREC + conditionNumber + assumed_exponent;\n"):


 ########################################################
 ################## Initialisations ###################
 ########################################################

 if (hardconstant=1)
 then
   fprintf(fd, "  mpfr_init (x%d);\n", d):
 fi:
 if (type = FUNCTION_SERIES)
 then
   fprintf(fd, "  mpfr_init (tmp);\n"):
   for i from 1 to nops(exponents)-1 do
     fprintf(fd, "  mpfr_init (x%d);\n", exponents[i])
   od:
 fi:

 for i from 1 to nc do
   fprintf(fd, "  mpfr_init (tip%d);\n", init_cond[i][1])
 od:
 fprintf(fd, "  mpfr_init (s);\n\n"):


 ########################################################
 ########## Ziv' loop: setting the precision ##########
 ########################################################

 fprintf(fd, "  /* ZIV' loop */\n"):
 fprintf(fd, "  for (;;)\n"):
 fprintf(fd, "    {\n"):

 fprintf(fd, "      MPFR_LOG_MSG ((\"Working precision: %%d\\n\", wprec, 0));\n\n"):
 if (hardconstant=1)
 then
   fprintf(fd, "      mpfr_set_prec (x%d, wprec);\n", d):
 fi:
 if (type = FUNCTION_SERIES)
 then
   fprintf(fd, "      mpfr_set_prec (tmp, wprec);\n"):
   fprintf(fd, "      if(mpfr_get_prec (x) > wprec)\n"):
```

```
  fprintf(fd, "        mpfr_set_prec (x1, wprec);\n"):
  fprintf(fd, "      else\n"):
  fprintf(fd, "        mpfr_set_prec (x1, mpfr_get_prec (x));\n"):
  for i from 2 to nops(exponents)-1 do
    fprintf(fd, "      mpfr_set_prec (x%d, wprec);\n", exponents[i])
  od:
fi:

for i from 1 to nc do
  fprintf(fd, "      mpfr_set_prec (tip%d, wprec);\n", init_cond[i][1])
od:
fprintf(fd, "      mpfr_set_prec (s, wprec);\n\n"):


#########################################################
############ Ziv' loop: initial conditions ##########
#########################################################

fprintf(fd, "      mpfr_set_ui (s, 0, MPFR_RNDN);\n"):

if (type = FUNCTION_SERIES)
then
  fprintf(fd, "      mpfr_set (x1, x, MPFR_RNDN);\n"):
  error_counter := init_error_counter("x1", error_counter):
  for i from 2 to nops(exponents) do
      fprintf(fd, "      mpfr_mul (x%d, x%d, x%d, MPFR_RNDN);\n", exponents[i], exponents[i-1], exponents[i]-
exponents[i-1]):
 var1 := sprintf("x%d", exponents[i]):
      var2 := sprintf("x%d", exponents[i-1]):
      var3 := sprintf("x%d", exponents[i]-exponents[i-1]):
 error_counter := error_counter_of_a_multiplication(var1, var2, var3, error_counter):
  od:
fi:

for i from 1 to nc do
  i0 := init_cond[i][1]:
  ri0 := init_cond[i][2]:  # We implement t_{i0} <- ri0
  if (whattype(ri0)='integer') or (whattype(ri0)='fraction')
  then
    if (type = FUNCTION_SERIES) and (i0 <> 0)
      then
        var :=  sprintf("      mpfr_mul_si (tip%d, x%d, ", i0, i0):
        var1 := sprintf("tip%d", i0):
        var2 := sprintf("x%d", i0):
        error_counter := error_counter_of_a_multiplication(var1, var2, "", error_counter):
      else
        var := sprintf("      mpfr_set_si (tip%d, ", i0):
        var1 := sprintf("tip%d", i0):
```

```
      error_counter := init_error_counter(var1, error_counter):
    fi:
    fprintf(fd, "%s%d, MPFR_RNDN);\n", var, numer(ri0)):
    if (whattype(ri0)='fraction')
    then
      fprintf(fd, "      mpfr_div_si (tip%d, tip%d, %d, MPFR_RNDN);\n", i0, i0, denom(ri0)):
      var1 := sprintf("tip%d", i0):
      error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
    fi:
  else
    printf("You need to provide a function mpfr_%a%d (mpfr_t, mpfr_rnd_t) that evaluates %a with faithful
rounding.\n", name, i0, ri0):
    fprintf(fd, "      mpfr_%a%d (tip%d, MPFR_RNDN);\n", name, i0, i0):
    var1 := sprintf("tip%d", i0):
    error_counter := init_error_counter(var1, error_counter):
    if (type = FUNCTION_SERIES) and (i0 <> 0)
    then
      fprintf(fd, "      mpfr_mul (tip%d, tip%d, x%d, MPFR_RNDN);\n", i0, i0, i0):
      var1 := sprintf("tip%d", i0):
      var2 := sprintf("x%d", i0):
      error_counter := error_counter_of_a_multiplication(var1, var1, var2, error_counter):
    fi:
  fi:

  if (type = FUNCTION_SERIES_RATIONAL) and (i0 <> 0)
  then
    var1 := sprintf("tip%d", i0):
    if (i0 = 1)
    then fprintf(fd, "      mpfr_mul_si (tip%d, tip%d, ", i0, i0):
    else
      required_mulsi := { op(required_mulsi), i0 }:
      fprintf(fd, "      mpfr_mul_si%d (tip%d, tip%d, ", i0, i0, i0):
    fi:
    for j from 1 to i0 do
      fprintf(fd, "u, "):
      error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
    od:
    fprintf(fd, "MPFR_RNDN);\n"):
    if (i0 = 1)
    then fprintf(fd, "      mpfr_div_si (tip%d, tip%d, ", i0, i0):
    else
      required_divsi := { op(required_divsi), i0 }:
      fprintf(fd, "      mpfr_div_si%d (tip%d, tip%d, ", i0, i0, i0):
    fi:
    for j from 1 to i0 do
      fprintf(fd, "v, "):
      error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
    od:
```

```
    fprintf(fd, "MPFR_RNDN);\n"):
  fi:

  fprintf(fd, "      mpfr_add (s, s, tip%d, MPFR_RNDN);\n\n", i0):
 od:

 if (whattype(c) = 'integer') or (whattype(c) = 'fraction')
 then
  if (type = FUNCTION_SERIES) and (c = -1)
  then
    fprintf(fd, "      MPFR_CHANGE_SIGN (x%d);\n", d):
  elif (type = FUNCTION_SERIES) and (c <> 1)
  then
    fprintf(fd, "      mpfr_mul_si (x%d, x%d, %d, MPFR_RNDN);\n", d, d, numer(c)):
    var1 := sprintf("x%d", d):
    error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
    if (whattype(c) = 'fraction')
    then
      fprintf(fd, "      mpfr_div_si (x%d, x%d, %d, MPFR_RNDN);\n", d, d, denom(c)):
      error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
    fi:
  fi:
 else
  printf("You need to provide a function mpfr_%a_cste (mpfr_t, mpfr_rnd_t) that evaluates %a with faithful
rounding.\n", name, c):
  if (type = CONSTANT_SERIES)
  then
    fprintf(fd, "      mpfr_%a_cste (x%d, MPFR_RNDN);\n", name, d):
    var1 := sprintf("x%d", d):
    error_counter := init_error_counter(var1, error_counter):
  elif (type = FUNCTION_SERIES) then
    fprintf(fd, "      mpfr_%a_cste (tmp, MPFR_RNDN);\n", name):
    error_counter := init_error_counter("tmp", error_counter):
    fprintf(fd, "      mpfr_mul (x%d, tmp, x%d, MPFR_RNDN);\n", d, d):
    var1 := sprintf("x%d", d):
    error_counter := error_counter_of_a_multiplication(var1, "tmp", var1, error_counter):
  elif (type = FUNCTION_SERIES_RATIONAL) then
    fprintf(fd, "      mpfr_%a_cste (x%d, MPFR_RNDN);\n", name, d):
    var1 := sprintf("x%d", d):
    error_counter := init_error_counter(var1, error_counter):
    if (d = 1)
    then fprintf(fd, "      mpfr_mul_si (x%d, x%d, ", d, d):
    else
      required_mulsi := { op(required_mulsi), d }:
      fprintf(fd, "      mpfr_mul_si%d (x%d, x%d, ", d, d, d):
    fi:
    for j from 1 to d do
      fprintf(fd, "u, "):
```

```
    error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
   od:
   fprintf(fd, "MPFR_RNDN);\n"):
   var1 := sprintf("x%d", d):
   if (d = 1)
   then fprintf(fd, "      mpfr_div_si (x%d, x%d, ", d, d):
   else
    required_divsi := { op(required_divsi), d }:
    fprintf(fd, "      mpfr_div_si%d (x%d, x%d, ", d, d, d):
   fi:
   for j from 1 to d do
    fprintf(fd, "v, "):
    error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
   od:
   fprintf(fd, "MPFR_RNDN);\n"):
  fi:
fi:

#########################################################
######### Ziv' loop: evaluation of the series ########
#########################################################

fprintf(fd, "\n"):
fprintf(fd, "      /* Evaluation of the series */\n"):
fprintf(fd, "      k = %d;\n", d):
fprintf(fd, "      for (;;)\n"):
fprintf(fd, "        {\n"):
if (init_cond[1][1] <> 0) then fprintf(fd, "          k += %d;\n", init_cond[1][1]) fi:

for i from 1 to nc do
 error_in_loop := 0:
 i0 := init_cond[i][1]:
 if (hardconstant = 1)
 then
  fprintf(fd, "          mpfr_mul (tip%d, tip%d, x%d, MPFR_RNDN);\n", i0, i0, d):
  var1 := sprintf("x%d", d):
  error_in_loop := error_in_loop + 1 + find_in_error_counter(var1, error_counter):
 else
  var := sprintf("tip%d", i0):
  temp := generate_multiply_rational(fd, var, var, c, [[var, error_in_loop]], "          "):
  error_in_loop := find_in_error_counter(var, temp):
  if (type = FUNCTION_SERIES_RATIONAL)
  then
   if (d=1)
   then
    fprintf(fd, "          mpfr_mul_si (tip%d, tip%d, u, MPFR_RNDN);\n", i0, i0):
    fprintf(fd, "          mpfr_div_si (tip%d, tip%d, v, MPFR_RNDN);\n", i0, i0):
 error_in_loop := error_in_loop + 2:
```

```
    else
      required_mulsi := { op(required_mulsi), d }:
      fprintf(fd, "          mpfr_mul_si%d (tip%d, tip%d", d, i0, i0):
      for j from 1 to d do fprintf(fd, ", u") od:
      fprintf(fd, ", MPFR_RNDN);\n"):
  error_in_loop := error_in_loop + d:

      required_divsi := { op(required_divsi), d }:
      fprintf(fd, "          mpfr_div_si%d (tip%d, tip%d", d, i0, i0):
      for j from 1 to d do fprintf(fd, ", v") od:
      fprintf(fd, ", MPFR_RNDN);\n" ):
  error_in_loop := error_in_loop + d:
    fi
   fi
  fi:
  var := sprintf("tip%d", i0):

  temp := generate_multiply_poly(fd, var, var, subs(n=k-d, p/q), [[var, error_in_loop]], "          "):
  required_mulsi := { op(required_mulsi), op(temp[1]) }:
  required_divsi := { op(required_divsi), op(temp[2]) }:
  error_in_loop := find_in_error_counter(var, temp[3]):
  temp := generate_multiply_poly(fd, "tmp", var, subs(n=k, s2/s1), [[var, error_in_loop]], "          "):
  required_mulsi := { op(required_mulsi), op(temp[1]) }:
  required_divsi := { op(required_divsi), op(temp[2]) }:

  fprintf(fd, "          mpfr_add (s, s, tmp, MPFR_RNDN);\n"):

  if (i<nc) then fprintf(fd, "\n          k += %d;\n", init_cond[i+1][1]-i0)
  else  fprintf(fd, "\n          k += %d;\n", d-i0)
  fi:
od:


#########################################################
################### Error analysis ######################
#########################################################

maxofti := 0: # store the maximum of the error counters of the initial conditions
for i from 1 to nc do
  var := sprintf("tip%d", init_cond[i][1]):
  if find_in_error_counter(var, error_counter) > maxofti
    then maxofti := find_in_error_counter(var, error_counter):
  fi:
od:
additional_error := find_in_error_counter("tmp", temp[3]) - error_in_loop:


#########################################################
```

```
#### Ziv' loop: stopping criterion for the series ####
#########################################################

# The first neglected term is tk, so the remainder is made by
# tk + t(k+d) + t(k+2d).... and the corresponding series
# beginning with t(k+1), t(k+2), etc. up to t(k+d-1).
#
# We have t(k0+d) = c*s1(k0)/s1(k0+d) * s2(k0+d)/s2(k0)* p(k0)/q(k0) * x^d t(k0)
# (where x=u/v or x=1 in cases of rational series or constant series)
# So it suffices that:
# forall k0>=k-d, |c * s1(k0)/s1(k0+d) * s2(k0+d)/s2(k0) * p(k0)/q(k0) * x^d| <= 1/2     (1)
#
# If this is true, |tk| = |c*s1(k-d)/s1(k) * s2(k)/s2(k-d)* p(k-d)/q(k-d) * x^d t(k-d)| <= t(k-d)/2
# This is also true for larger values of k, so we can bound |tk + t(k+d) + t(k+2d) + ...| by |t(k-d)|.
# And the same holds for |t(k+1) + ...|, |t(k+2) + ...|, etc. up to |t(k+d-1)+...|.
#
# global_test depends on k and we must satisfy:
#  "if (global_test) then (1) holds".
#
# the total remainder is bounded by 2*nc*tk.

 fprintf(fd, "          global_test = xxx; /* FIXME: set the value in order to ensure that, whenever global_test is true,
we have: forall k'>=k, |r(k')*x^d| <= 1/2, where r is the fraction such that a(n)=r(n)a(n-d)*/\n"):
 printf("The code contains a variable global_test that you must manually set to a suitable value, in order to ensure
that when global_test is true, the following holds:\n"):
 printf("        forall k'>=k, |r(k')*x^d| <= 1/2, where r is the fraction such that a(n)=r(n)a(n-d)\n"):
 guard_bits := 1+1+ceil(log[2](nc)):
 for i from 1 to nc do
   i0 := init_cond[i][1]:
   fprintf(fd, "          test%d = ( (!MPFR_IS_ZERO(s))\n", i0):
   fprintf(fd, "                  && ( MPFR_IS_ZERO(tip%d)\n", i0):
   fprintf(fd, "                      || (MPFR_EXP(tip%d) + (mp_exp_t)prec + %d <= MPFR_EXP(s))\n", i0, guard_bits):
   fprintf(fd, "                      )\n"):
   fprintf(fd, "                  );\n"):
 od:
 fprintf(fd, "          if (");
 for i from 1 to nc do
   fprintf(fd, "test%d && ", init_cond[i][1]):
 od:
 fprintf(fd, "global_test)\n"):
 fprintf(fd, "            break;\n"):
 fprintf(fd, "        }\n\n"):


#########################################################
############## Ziv' loop: testing final ##############
#########################################################
```

```
fprintf(fd, "      MPFR_LOG_MSG ((\"Truncation rank: %%lu\\n\", k));\n\n"):
fprintf(fd, "      err = ERRORANALYSISK + conditionNumber - MPFR_GET_EXP (s);\n\n"):
fprintf(fd, "      /* err is the number of bits lost due to the evaluation error */\n"):
fprintf(fd, "      /* wprec-(prec+1): number of bits lost due to the approximation error */\n"):
fprintf(fd, "      MPFR_LOG_MSG ((\"Roundoff error: %%Pu\\n\", err));\n"):
fprintf(fd, "      MPFR_LOG_MSG ((\"Approxim error: %%Pu\\n\", wprec-prec-1));\n\n"):
fprintf(fd, "      if (wprec < err+1)\n"):
fprintf(fd, "        correct_bits=0;\n"):
fprintf(fd, "      else\n"):
fprintf(fd, "        {\n"):
fprintf(fd, "          if (wprec < err+prec+1)\n"):
fprintf(fd, "            correct_bits =  wprec - err - 1;\n"):
fprintf(fd, "          else\n"):
fprintf(fd, "            correct_bits = prec;\n"):
fprintf(fd, "        }\n\n"):
fprintf(fd, "      if (MPFR_LIKELY (MPFR_CAN_ROUND (s, correct_bits, MPFR_PREC (y), rnd)))\n"):
fprintf(fd, "        break;\n\n"):

fprintf(fd, "      if (correct_bits == 0)\n"):
fprintf(fd, "        {\n"):
fprintf(fd, "          assumed_exponent *= 2;\n"):
fprintf(fd, "          MPFR_LOG_MSG ((\"Not a single bit correct (assumed_exponent=%%lu)\\n\",\n"):
fprintf(fd, "                         assumed_exponent));\n"):
fprintf(fd, "          wprec = prec + ERRORANALYSISK + conditionNumber + assumed_exponent;\n"):
fprintf(fd, "        }\n"):
fprintf(fd, "      else\n"):
fprintf(fd, "        {\n"):
fprintf(fd, "          if (correct_bits < prec)\n"):
fprintf(fd, "            { /* The precision was badly chosen */\n"):
fprintf(fd, "              MPFR_LOG_MSG ((\"Bad assumption on the exponent of %s(x)\", 0));\n", name):
fprintf(fd, "              MPFR_LOG_MSG ((\" (E=%%ld)\\n\", (long) MPFR_GET_EXP (s)));\n"):
fprintf(fd, "              wprec = prec + err + 1;\n"):
fprintf(fd, "            }\n"):
fprintf(fd, "          else\n"):
fprintf(fd, "            { /* We are really in a bad case of the TMD */\n"):
fprintf(fd, "              MPFR_ZIV_NEXT (loop, prec);\n\n"):

fprintf(fd, "              /* We update wprec */\n"):
fprintf(fd, "              /* We assume that K will not be multiplied by more than 4 */\n"):
fprintf(fd, "              wprec = prec + ERRORANALYSIS4K + conditionNumber\n"):
fprintf(fd, "                - MPFR_GET_EXP (s);\n"):
fprintf(fd, "            }\n"):
fprintf(fd, "        }\n\n"):

fprintf(fd, "    } /* End of ZIV loop */\n\n"):
fprintf(fd, "  MPFR_ZIV_FREE (loop);\n\n"):
fprintf(fd, "  r = mpfr_set (res, s, rnd);\n\n"):
```

```
#########################################################
################ Clearing everything ##################
#########################################################

fprintf(fd, "  mpfr_clear (s);\n"):
if (hardconstant=1)
then
  fprintf(fd, "  mpfr_clear (x%d);\n", d):
fi:
if (type = FUNCTION_SERIES)
then
  fprintf(fd, "  mpfr_clear (tmp);\n"):
  for i from 1 to nops(exponents)-1 do
    fprintf(fd, "  mpfr_clear (x%d);\n", exponents[i]):
  od:
fi:

for i from 1 to nc do
  fprintf(fd, "  mpfr_clear (tip%d);\n", init_cond[i][1]):
od:

fprintf(fd, "\n"):
fprintf(fd, "  MPFR_SAVE_EXPO_FREE (expo);\n"):
fprintf(fd, "  return mpfr_check_range (res, r, rnd);\n"):
fprintf(fd, "}\n"):

fclose(fd):

for i from 1 to nops(required_mulsi) do
  printf("You need to provide a mpfr_mul_si%d function.\n", required_mulsi[i]):
  printf("  -> This can be achieved by a call to generate_muldivsin(\"mul\", %d):\n",  required_mulsi[i]):
od:
for i from 1 to nops(required_divsi) do
  printf("You need to provide a mpfr_div_si%d function.\n", required_divsi[i]):
  printf("  -> This can be achieved by a call to generate_muldivsin(\"div\", %d):\n",  required_divsi[i]):
od:


#########################################################
################### Error analysis ######################
#########################################################

printf("\n\n"):
printf("Before the loop, we have "):
for i from 1 to nc do
  var := sprintf("tip%d", init_cond[i][1]):
  printf("%s {%d}", var, find_in_error_counter(var, error_counter)):
```

```
  if (i <> nc) then printf(", ") else printf("\n") fi:
 od:
 printf("Each step of the loop adds another {%d}\n", error_in_loop):
 if (additional_error <> 0)
 then printf("Moreover, the multiplication by %a adds another {%d} to each term before it is summed.\n", subs(n=k,
s2/s1), additional_error)
 fi:
 printf("Finally, we have s = sum_(i=0)^(k-1) ( ti{%d + %dk} )\n", maxofti + additional_error + 1 - error_in_loop,
error_in_loop):
 printf("We bound it by {(k+%d)*2^(%d)}\n", ceil( (maxofti + additional_error + 1 - error_in_loop)/error_in_loop),
ceil(log[2](error_in_loop))):

 a := ceil( (maxofti + additional_error + 1 - error_in_loop)/error_in_loop):
 b := ceil(log[2](error_in_loop)):

 if (a > 0)
   then var := sprintf("MPFR_INT_CEIL_LOG2 (prec + %d)", a)
   elif (a=0) then  var := sprintf("MPFR_INT_CEIL_LOG2 (prec)")
   else sprintf("MPFR_INT_CEIL_LOG2 (prec - %d)", -a)
 fi:
 if (b > 0) then var := sprintf("%s + %d", var, b+2) fi:
 var := sprintf("sed -n -i 's/ERRORANALYSISPREC/%s/g;p' %s", var, filename):
 system(var):

 if (a > 0)
   then var := sprintf("MPFR_INT_CEIL_LOG2 (k + %d)", a)
   elif (a=0) then  var := sprintf("MPFR_INT_CEIL_LOG2 (k)")
   else sprintf("MPFR_INT_CEIL_LOG2 (k - %d)", -a)
 fi:
 if (b > 0) then var := sprintf("%s + %d", var, b+2) fi:
 var := sprintf("sed -n -i 's/ERRORANALYSISK/%s/g;p' %s", var, filename):
 system(var):

 if (a > 0)
   then var := sprintf("MPFR_INT_CEIL_LOG2 (k + %d)", a)
   elif (a=0) then  var := sprintf("MPFR_INT_CEIL_LOG2 (k)")
   else sprintf("MPFR_INT_CEIL_LOG2 (k - %d)", -a)
 fi:
 var := sprintf("%s + %d", var, b+4):
 var := sprintf("sed -n -i 's/ERRORANALYSIS4K/%s/g;p' %s", var, filename):
 system(var):

end proc:
read ("metaMPFR_straightforwardAlgo.mpl"):

f := AiryAi(x):
deq := holexprtodiffeq(f, y(x)):
rec := diffeqtorec(deq, y(x), a(n)):
```

```
name_of_function := op(0,f):
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

f := erf(x):
deq := holexprtodiffeq(f, y(x)):
rec := diffeqtorec(deq, y(x), a(n)):
name_of_function := op(0,f):
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*(6*n+2)*(6*n+3)*(6*n+4)*(6*n+5)*(6*n+6)*a(n)/(
(n+1)^3*(3*n+1)*(3*n+2)*(3*n+3)*12288000 ), a(0)=1 }:
name_of_function := alpha:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):


rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1 }:
name_of_function := test0a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi }:
name_of_function := test1a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1 }:
name_of_function := test2a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi }:
name_of_function := test3a:
name_of_file := sprintf("%a.c", name_of_function):
```

```
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=2 }:
name_of_function := test4a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi, a(1)=0}:
name_of_function := test5a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1, a(1)=Pi }:
name_of_function := test6a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(1)=0}:
name_of_function := test7a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=0, a(2)=0 }:
name_of_function := test8a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=0, a(1)=Pi, a(2)=2 }:
name_of_function := test9a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=0, a(1)=0, a(2)=1 }:
name_of_function := test10a:
```

```
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+7) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(4)=1, a(6)=2  }:
name_of_function := test11a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):


rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1 }:
name_of_function := test0b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi }:
name_of_function := test1b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1 }:
name_of_function := test2b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi }:
name_of_function := test3b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=2 }:
name_of_function := test4b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):
```

```
rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi, a(1)=0}:
name_of_function := test5b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1, a(1)=Pi }:
name_of_function := test6b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(1)=0}:
name_of_function := test7b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=0, a(2)=0 }:
name_of_function := test8b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=0, a(1)=Pi, a(2)=2 }:
name_of_function := test9b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=0, a(1)=0, a(2)=1 }:
name_of_function := test10b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+7) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(4)=1, a(6)=2  }:
name_of_function := test11b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):
```

```
rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1 }:
name_of_function := test0c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ***************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi }:
name_of_function := test1c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ***************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1 }:
name_of_function := test2c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ***************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi }:
name_of_function := test3c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ***************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=2 }:
name_of_function := test4c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ***************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi, a(1)=0}:
name_of_function := test5c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ***************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1, a(1)=Pi }:
name_of_function := test6c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ***************************/\n",
```

```
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(1)=0}:
name_of_function := test7c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=0, a(2)=0 }:
name_of_function := test8c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=0, a(1)=Pi, a(2)=2 }:
name_of_function := test9c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+3) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=0, a(1)=0, a(2)=1 }:
name_of_function := test10c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+7) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(4)=1, a(6)=2  }:
name_of_function := test11c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):
```

1.91 libdeflate 1.7-1

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1.92 xauth 1.1-1

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1.93 build-essential 12.9

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1.94 perl 5.32.1-4+deb11u2

1.94.1 Available under license :

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1.98 tdb 1.46.2

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1.100 libalgorithm-diff-xs-perl 0.04-6+b1

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1.101 libfile-fcntllock-perl 0.22-3+b7

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1.106 libnsl 1.3.0-2

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1.117 libsemanage-common 3.1-1

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1.120 throttler 1.2.1

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It was downloaded from <https://download.gnome.org/sources/glib/>.

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==========

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1.124 libnsl 1.3.0-2

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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I
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Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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---

 * To: Stephen Frost <sfrost@snowman.net>
 * Subject: Re: OpenLDAP Licenseing issues
 * From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>

* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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1.126 libffi 3.4.2-4

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1.127 cffi 1.15.1

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular expression support

regexp/jimregexp.[ch]:

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1987 James A. Woods ames!jaw
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#
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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
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src/pcf/module.mk
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#
src/gzip/adler32.c
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src/gzip/inflate.c
```

src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
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*
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*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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1.133 zlib 1.2.11

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1.134 python-setuptools 8.12.0

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1.135 libtirpc 1.3.1-1+deb11u1

1.135.1 Available under license :

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1.136 zlib 1.2.11.dfsg-0ubuntu2.2

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MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---
* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/trees.c
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/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/compress.c
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/deflate.h
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/* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

/* zip.h -- IO on .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

      Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

      Modifications for Zip64 support
      Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

      For more info read MiniZip_info.txt

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    misrepresented as being the original software.
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      Changes

      See header of zip.h

*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzread.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about ZLIB1.DLL

This document describes the design, the rationale, and the usage
of the official DLL build of zlib, named ZLIB1.DLL. If you have
general questions about zlib, you should see the file "FAQ" found
in the zlib distribution, or at the following location:
http://www.gzip.org/zlib/zlib_faq.html

1. What is ZLIB1.DLL, and how can I get it?

- ZLIB1.DLL is the official build of zlib as a DLL.
(Please remark the character '1' in the name.)

Pointers to a precompiled ZLIB1.DLL can be found in the zlib
web site at:
http://www.zlib.net/

Applications that link to ZLIB1.DLL can rely on the following
specification:

* The exported symbols are exclusively defined in the source
files "zlib.h" and "zlib.def", found in an official zlib
source distribution.
* The symbols are exported by name, not by ordinal.
* The exported names are undecorated.
* The calling convention of functions is "C" (CDECL).
* The ZLIB1.DLL binary is linked to MSVCRT.DLL.

The archive in which ZLIB1.DLL is bundled contains compiled
test programs that must run with a valid build of ZLIB1.DLL.
It is recommended to download the prebuilt DLL from the zlib
web site, instead of building it yourself, to avoid potential
incompatibilities that could be introduced by your compiler
and build settings. If you do build the DLL yourself, please
make sure that it complies with all the above requirements,
and it runs with the precompiled test programs, bundled with
the original ZLIB1.DLL distribution.

If, for any reason, you need to build an incompatible DLL,
please use a different file name.

2. Why did you change the name of the DLL to ZLIB1.DLL?
What happened to the old ZLIB.DLL?

- The old ZLIB.DLL, built from zlib-1.1.4 or earlier, required
compilation settings that were incompatible to those used by
a static build. The DLL settings were supposed to be enabled
by defining the macro ZLIB_DLL, before including "zlib.h".
Incorrect handling of this macro was silently accepted at
build time, resulting in two major problems:

* ZLIB_DLL was missing from the old makefile. When building
the DLL, not all people added it to the build options. In
consequence, incompatible incarnations of ZLIB.DLL started
to circulate around the net.

* When switching from using the static library to using the
DLL, applications had to define the ZLIB_DLL macro and
to recompile all the sources that contained calls to zlib
functions. Failure to do so resulted in creating binaries
that were unable to run with the official ZLIB.DLL build.

The only possible solution that we could foresee was to make
a binary-incompatible change in the DLL interface, in order to
remove the dependency on the ZLIB_DLL macro, and to release
the new DLL under a different name.

We chose the name ZLIB1.DLL, where '1' indicates the major
zlib version number. We hope that we will not have to break
the binary compatibility again, at least not as long as the
zlib-1.x series will last.

There is still a ZLIB_DLL macro, that can trigger a more
efficient build and use of the DLL, but compatibility no
longer dependents on it.

3. Can I build ZLIB.DLL from the new zlib sources, and replace
an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- In principle, you can do it by assigning calling convention
keywords to the macros ZEXPORT and ZEXPORTVA. In practice,
it depends on what you mean by "an old ZLIB.DLL", because the
old DLL exists in several mutually-incompatible versions.

You have to find out first what kind of calling convention is being used in your particular ZLIB.DLL build, and to use the same one in the new build. If you don't know what this is all about, you might be better off if you would just leave the old DLL intact.

4. Can I compile my application using the new zlib interface, and link it to an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- The official answer is "no"; the real answer depends again on what kind of ZLIB.DLL you have. Even if you are lucky, this course of action is unreliable.

If you rebuild your application and you intend to use a newer version of zlib (post- 1.1.4), it is strongly recommended to link it to the new ZLIB1.DLL.

5. Why are the zlib symbols exported by name, and not by ordinal?

- Although exporting symbols by ordinal is a little faster, it is risky. Any single glitch in the maintenance or use of the DEF file that contains the ordinals can result in incompatible builds and frustrating crashes. Simply put, the benefits of exporting symbols by ordinal do not justify the risks.

Technically, it should be possible to maintain ordinals in the DEF file, and still export the symbols by name. Ordinals exist in every DLL, and even if the dynamic linking performed at the DLL startup is searching for names, ordinals serve as hints, for a faster name lookup. However, if the DEF file contains ordinals, the Microsoft linker automatically builds an implib that will cause the executables linked to it to use those ordinals, and not the names. It is interesting to notice that the GNU linker for Win32 does not suffer from this problem.

It is possible to avoid the DEF file if the exported symbols are accompanied by a "__declspec(dllexport)" attribute in the source files. You can do this in zlib by predefining the ZLIB_DLL macro.

6. I see that the ZLIB1.DLL functions use the "C" (CDECL) calling convention. Why not use the STDCALL convention? STDCALL is the standard convention in Win32, and I need it in

my Visual Basic project!

(For readability, we use CDECL to refer to the convention
triggered by the "__cdecl" keyword, STDCALL to refer to
the convention triggered by "__stdcall", and FASTCALL to
refer to the convention triggered by "__fastcall".)

- Most of the native Windows API functions (without varargs) use
indeed the WINAPI convention (which translates to STDCALL in
Win32), but the standard C functions use CDECL. If a user
application is intrinsically tied to the Windows API (e.g.
it calls native Windows API functions such as CreateFile()),
sometimes it makes sense to decorate its own functions with
WINAPI. But if ANSI C or POSIX portability is a goal (e.g.
it calls standard C functions such as fopen()), it is not a
sound decision to request the inclusion of <windows.h>, or to
use non-ANSI constructs, for the sole purpose to make the user
functions STDCALL-able.

The functionality offered by zlib is not in the category of
"Windows functionality", but is more like "C functionality".

Technically, STDCALL is not bad; in fact, it is slightly
faster than CDECL, and it works with variable-argument
functions, just like CDECL. It is unfortunate that, in spite
of using STDCALL in the Windows API, it is not the default
convention used by the C compilers that run under Windows.
The roots of the problem reside deep inside the unsafety of
the K&R-style function prototypes, where the argument types
are not specified; but that is another story for another day.

The remaining fact is that CDECL is the default convention.
Even if an explicit convention is hard-coded into the function
prototypes inside C headers, problems may appear. The
necessity to expose the convention in users' callbacks is one
of these problems.

The calling convention issues are also important when using
zlib in other programming languages. Some of them, like Ada
(GNAT) and Fortran (GNU G77), have C bindings implemented
initially on Unix, and relying on the C calling convention.
On the other hand, the pre- .NET versions of Microsoft Visual
Basic require STDCALL, while Borland Delphi prefers, although
it does not require, FASTCALL.

In fairness to all possible uses of zlib outside the C
programming language, we choose the default "C" convention.
Anyone interested in different bindings or conventions is

encouraged to maintain specialized projects. The "contrib/" directory from the zlib distribution already holds a couple of foreign bindings, such as Ada, C++, and Delphi.

7. I need a DLL for my Visual Basic project. What can I do?

- Define the ZLIB_WINAPI macro before including "zlib.h", when building both the DLL and the user application (except that you don't need to define anything when using the DLL in Visual Basic). The ZLIB_WINAPI macro will switch on the WINAPI (STDCALL) convention. The name of this DLL must be different than the official ZLIB1.DLL.

Gilles Vollant has contributed a build named ZLIBWAPI.DLL, with the ZLIB_WINAPI macro turned on, and with the minizip functionality built in. For more information, please read the notes inside "contrib/vstudio/readme.txt", found in the zlib distribution.

8. I need to use zlib in my Microsoft .NET project. What can I do?

- Henrik Ravn has contributed a .NET wrapper around zlib. Look into contrib/dotzlib/, inside the zlib distribution.

9. If my application uses ZLIB1.DLL, should I link it to MSVCRT.DLL? Why?

- It is not required, but it is recommended to link your application to MSVCRT.DLL, if it uses ZLIB1.DLL.

The executables (.EXE, .DLL, etc.) that are involved in the same process and are using the C run-time library (i.e. they are calling standard C functions), must link to the same library. There are several libraries in the Win32 system: CRTDLL.DLL, MSVCRT.DLL, the static C libraries, etc. Since ZLIB1.DLL is linked to MSVCRT.DLL, the executables that depend on it should also be linked to MSVCRT.DLL.

10. Why are you saying that ZLIB1.DLL and my application should be linked to the same C run-time (CRT) library? I linked my application and my DLLs to different C libraries (e.g. my application to a static library, and my DLLs to MSVCRT.DLL), and everything works fine.

- If a user library invokes only pure Win32 API (accessible via
<windows.h> and the related headers), its DLL build will work
in any context. But if this library invokes standard C API,
things get more complicated.

There is a single Win32 library in a Win32 system. Every
function in this library resides in a single DLL module, that
is safe to call from anywhere. On the other hand, there are
multiple versions of the C library, and each of them has its
own separate internal state. Standalone executables and user
DLLs that call standard C functions must link to a C run-time
(CRT) library, be it static or shared (DLL). Intermixing
occurs when an executable (not necessarily standalone) and a
DLL are linked to different CRTs, and both are running in the
same process.

Intermixing multiple CRTs is possible, as long as their
internal states are kept intact. The Microsoft Knowledge Base
articles KB94248 "HOWTO: Use the C Run-Time" and KB140584
"HOWTO: Link with the Correct C Run-Time (CRT) Library"
mention the potential problems raised by intermixing.

If intermixing works for you, it's because your application
and DLLs are avoiding the corruption of each of the CRTs'
internal states, maybe by careful design, or maybe by fortune.

Also note that linking ZLIB1.DLL to non-Microsoft CRTs, such
as those provided by Borland, raises similar problems.

11. Why are you linking ZLIB1.DLL to MSVCRT.DLL?

- MSVCRT.DLL exists on every Windows 95 with a new service pack
installed, or with Microsoft Internet Explorer 4 or later, and
on all other Windows 4.x or later (Windows 98, Windows NT 4,
or later). It is freely distributable; if not present in the
system, it can be downloaded from Microsoft or from other
software provider for free.

The fact that MSVCRT.DLL does not exist on a virgin Windows 95
is not so problematic. Windows 95 is scarcely found nowadays,
Microsoft ended its support a long time ago, and many recent
applications from various vendors, including Microsoft, do not
even run on it. Furthermore, no serious user should run
Windows 95 without a proper update installed.

12. Why are you not linking ZLIB1.DLL to
<<my favorite C run-time library>> ?

- We considered and abandoned the following alternatives:

* Linking ZLIB1.DLL to a static C library (LIBC.LIB, or
LIBCMT.LIB) is not a good option. People are using the DLL
mainly to save disk space. If you are linking your program
to a static C library, you may as well consider linking zlib
in statically, too.

* Linking ZLIB1.DLL to CRTDLL.DLL looks appealing, because
CRTDLL.DLL is present on every Win32 installation.
Unfortunately, it has a series of problems: it does not
work properly with Microsoft's C++ libraries, it does not
provide support for 64-bit file offsets, (and so on...),
and Microsoft discontinued its support a long time ago.

* Linking ZLIB1.DLL to MSVCR70.DLL or MSVCR71.DLL, supplied
with the Microsoft .NET platform, and Visual C++ 7.0/7.1,
raises problems related to the status of ZLIB1.DLL as a
system component. According to the Microsoft Knowledge Base
article KB326922 "INFO: Redistribution of the Shared C
Runtime Component in Visual C++ .NET", MSVCR70.DLL and
MSVCR71.DLL are not supposed to function as system DLLs,
because they may clash with MSVCRT.DLL. Instead, the
application's installer is supposed to put these DLLs
(if needed) in the application's private directory.
If ZLIB1.DLL depends on a non-system runtime, it cannot
function as a redistributable system component.

* Linking ZLIB1.DLL to non-Microsoft runtimes, such as
Borland's, or Cygwin's, raises problems related to the
reliable presence of these runtimes on Win32 systems.
It's easier to let the DLL build of zlib up to the people
who distribute these runtimes, and who may proceed as
explained in the answer to Question 14.

13. If ZLIB1.DLL cannot be linked to MSVCR70.DLL or MSVCR71.DLL,
how can I build/use ZLIB1.DLL in Microsoft Visual C++ 7.0
(Visual Studio .NET) or newer?

- Due to the problems explained in the Microsoft Knowledge Base
article KB326922 (see the previous answer), the C runtime that
comes with the VC7 environment is no longer considered a
system component. That is, it should not be assumed that this
runtime exists, or may be installed in a system directory.

Since ZLIB1.DLL is supposed to be a system component, it may not depend on a non-system component.

In order to link ZLIB1.DLL and your application to MSVCRT.DLL in VC7, you need the library of Visual C++ 6.0 or older. If you don't have this library at hand, it's probably best not to use ZLIB1.DLL.

We are hoping that, in the future, Microsoft will provide a way to build applications linked to a proper system runtime, from the Visual C++ environment. Until then, you have a couple of alternatives, such as linking zlib in statically. If your application requires dynamic linking, you may proceed as explained in the answer to Question 14.

14. I need to link my own DLL build to a CRT different than MSVCRT.DLL. What can I do?

- Feel free to rebuild the DLL from the zlib sources, and link it the way you want. You should, however, clearly state that your build is unofficial. You should give it a different file name, and/or install it in a private directory that can be accessed by your application only, and is not visible to the others (i.e. it's neither in the PATH, nor in the SYSTEM or SYSTEM32 directories). Otherwise, your build may clash with applications that link to the official build.

For example, in Cygwin, zlib is linked to the Cygwin runtime CYGWIN1.DLL, and it is distributed under the name CYGZ.DLL.

15. May I include additional pieces of code that I find useful, link them in ZLIB1.DLL, and export them?

- No. A legitimate build of ZLIB1.DLL must not include code that does not originate from the official zlib source code. But you can make your own private DLL build, under a different file name, as suggested in the previous answer.

For example, zlib is a part of the VCL library, distributed with Borland Delphi and C++ Builder. The DLL build of VCL is a redistributable file, named VCLxx.DLL.

16. May I remove some functionality out of ZLIB1.DLL, by enabling macros like NO_GZCOMPRESS or NO_GZIP at compile time?

- No. A legitimate build of ZLIB1.DLL must provide the complete
  zlib functionality, as implemented in the official zlib source
  code. But you can make your own private DLL build, under a
  different file name, as suggested in the previous answer.

17. I made my own ZLIB1.DLL build. Can I test it for compliance?

- We prefer that you download the official DLL from the zlib
  web site. If you need something peculiar from this DLL, you
  can send your suggestion to the zlib mailing list.

  However, in case you do rebuild the DLL yourself, you can run
  it with the test programs found in the DLL distribution.
  Running these test programs is not a guarantee of compliance,
  but a failure can imply a detected problem.

**

This document is written and maintained by
Cosmin Truta <cosmint@cs.ubbcluj.ro>

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/win32/DLL_FAQ.txt
No license file was found, but licenses were detected in source scan.

Permission is granted to anyone to use this software for any purpose,
The origin of this software must not be misrepresented; you must not
Altered source versions must be plainly marked as such, and must not be
This notice may not be removed or altered from any source distribution.

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zlib.3
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zutil.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zconf.h.cmakein
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zconf.h.in
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zconf.h
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/adler32.c
No license file was found, but licenses were detected in source scan.

/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.7 12 August 2012 Mark Adler */

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gun.c
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inftrees.h
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*

* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/crc32.c
No license file was found, but licenses were detected in source scan.

/* unzip.c -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

      Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

      Modifications of Unzip for Zip64
      Copyright (C) 2007-2008 Even Rouault

      Modifications for Zip64 support on both zip and unzip
      Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

      For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of
compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

    crypt.c (full version) by Info-ZIP.   Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

    This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the

version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/unzip.c
No license file was found, but licenses were detected in source scan.

/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inffast.h
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inftrees.c
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zutil.h
No license file was found, but licenses were detected in source scan.

/*
 Additional tools for Minizip
 Code: Xavier Roche '2004
 License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/mztools.h
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/mztools.c
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzclose.c
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/deflate.c
No license file was found, but licenses were detected in source scan.

For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/msdos/Makefile.dj2
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/msdos/Makefile.emx
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/win32/Makefile.gcc
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/old/Makefile.emx
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/old/os2/Makefile.os2
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzlib.c
No license file was found, but licenses were detected in source scan.

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

 Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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

 The data format used by the zlib library is described by RFCs (Request for
 Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950

(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zlib.h
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/test/example.c
No license file was found, but licenses were detected in source scan.

/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4 11 December 2005 Mark Adler */

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

 Copyright (C) 2004, 2005, 2012 Mark Adler, all rights reserved
 version 1.2, 14 Aug 2012

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    misrepresented as being the original software.
 3. This notice may not be removed or altered from any source distribution.

 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzjoin.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See
* http://marknelson.us/1997/01/01/zlib-engine/
* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12. Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

make distclean
./configure
make

14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16. Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The gz* functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and
zconf.h is also a source distribution, and so you should change
ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes
in zlib.h as you would for a full source distribution.

25. Will zlib work on a big-endian or little-endian architecture, and can I
exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any
data types being limited to 32-bits in length. If you have any
difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than
does PKZIP and zlib. However, you can look in zlib's contrib/blast
directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use
Z_FULL_FLUSH, carefully write all the pending data at those points, and
keep an index of those locations, then you can start decompression at those
points. You have to be careful to not use Z_FULL_FLUSH too often, since it
can significantly degrade compression. Alternatively, you can scan a
deflate stream once to generate an index, and then use that index for
random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There
were working ports of zlib 1.1.4 to MVS, but those links no longer work.
If you know of recent, successful applications of zlib on these operating
systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to
understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's
contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more

efficient approach (and in fact exactly what the zlib format was designed
for), using the "gzip" transfer encoding is probably more reliable due to
an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since
they have not documented it as they have previous compression formats. In
any case, the compression improvements are so modest compared to other more
modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by
Giles Vollant, which is found in the contrib directory of zlib. It is not
part of zlib. In fact none of the stuff in contrib is part of zlib. The
files in there are not supported by the zlib authors. You need to contact
the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the
GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by
other authors and are provided as a convenience to the user within the zlib
distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us
so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/FAQ
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/infback.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/zlib_how.html
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/uncompr.c
No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

        Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

        Modifications of Unzip for Zip64
        Copyright (C) 2007-2008 Even Rouault

        Modifications for Zip64 support on both zip and unzip
        Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Changes

See header of unzip64.c

*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/unzip.h
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inflate.h
No license file was found, but licenses were detected in source scan.

/* gzlog.h
 Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
 version 2.2, 14 Aug 2012

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   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzlog.h
No license file was found, but licenses were detected in source scan.

/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzwrite.c
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inflate.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inffast.c
No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and
rfc1952 (gzip format).

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

To compile all files and run the test program, follow the instructions given at
the top of Makefile.in. In short "./configure; make test", and if that goes
well, "make install" should work for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use
make_vms.com.

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

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997
issue of Dr. Dobb's Journal; a copy of the article is available at
http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at
http://java.sun.com/developer/technicalArticles/Programming/compression/ .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available
at CPAN (Comprehensive Perl Archive Network) sites, including
http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

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

zlib is built into tcl: http://wiki.tcl.tk/4610 .

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

Notes for some targets:

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

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

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

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

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

- gzdopen is not supported on RISCOS or BEOS.

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

Acknowledgments:

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

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

If you use the zlib library in a product, we would appreciate *not* receiving
lengthy legal documents to sign. The sources are provided for free but without
warranty of any kind. The library has been entirely written by Jean-loup
Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in
the file ChangeLog history information documenting your changes. Please read
the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/README
No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzguts.h
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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format)
and rfc1952.txt (gzip format).

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org). Two compiled
examples are distributed in this package, example and minigzip. The example_d

and minigzip_d flavors validate that the zlib1.dll file is working correctly.

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

PLEASE read DLL_FAQ.txt, and the the zlib FAQ http://zlib.net/zlib_faq.html
before asking for help.

Manifest:

The package zlib-1.2.11-win32-x86.zip will contain the following files:

README-WIN32.txt This document
ChangeLog Changes since previous zlib packages
DLL_FAQ.txt Frequently asked questions about zlib1.dll
zlib.3.pdf Documentation of this library in Adobe Acrobat format

example.exe A statically-bound example (using zlib.lib, not the dll)
example.pdb Symbolic information for debugging example.exe

example_d.exe A zlib1.dll bound example (using zdll.lib)
example_d.pdb Symbolic information for debugging example_d.exe

minigzip.exe A statically-bound test program (using zlib.lib, not the dll)
minigzip.pdb Symbolic information for debugging minigzip.exe

minigzip_d.exe A zlib1.dll bound test program (using zdll.lib)
minigzip_d.pdb Symbolic information for debugging minigzip_d.exe

zlib.h Install these files into the compilers' INCLUDE path to
zconf.h compile programs which use zlib.lib or zdll.lib

zdll.lib Install these files into the compilers' LIB path if linking
zdll.exp a compiled program to the zlib1.dll binary

zlib.lib Install these files into the compilers' LIB path to link zlib
zlib.pdb into compiled programs, without zlib1.dll runtime dependency
(zlib.pdb provides debugging info to the compile time linker)

zlib1.dll Install this binary shared library into the system PATH, or
the program's runtime directory (where the .exe resides)
zlib1.pdb Install in the same directory as zlib1.dll, in order to debug
an application crash using WinDbg or similar tools.

All .pdb files above are entirely optional, but are very useful to a developer

attempting to diagnose program misbehavior or a crash. Many additional
important files for developers can be found in the zlib127.zip source package
available from http://zlib.net/ - review that package's README file for details.

Acknowledgments:

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

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jloup@gzip.org madler@alumni.caltech.edu

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lengthy legal documents to sign. The sources are provided for free but without
warranty of any kind. The library has been entirely written by Jean-loup
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the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/win32/README-WIN32.txt

No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
  Not copyrighted -- provided to the public domain
  Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/fitblk.c
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/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzlog.c

1.137 zlib 1.2.11.dfsg-2+deb11u2

1.137.1 Available under license :

No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
No license file was found, but licenses were detected in source scan.

/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

---

* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT

Zip File specification

Notes.
* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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   misrepresented as being the original software.
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Changes

See header of unzip64.c

*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h
No license file was found, but licenses were detected in source scan.

/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4 11 December 2005 Mark Adler */

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

/* unzip.c -- IO for uncompress .zip files using zlib
 Version 1.1, February 14h, 2010
 part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications of Unzip for Zip64
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Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of
compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the
version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*

2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

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Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
Not copyrighted -- provided to the public domain
Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
No license file was found, but licenses were detected in source scan.

/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
No license file was found, but licenses were detected in source scan.

/* zip.h -- IO on .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

      Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

      Modifications for Zip64 support
      Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

      For more info read MiniZip_info.txt

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Changes

See header of zip.h

*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.7 12 August 2012 Mark Adler */

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
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Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
No license file was found, but licenses were detected in source scan.

/* gzlog.h
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 version 2.2, 14 Aug 2012

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*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and
rfc1952 (gzip format).

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

To compile all files and run the test program, follow the instructions given at
the top of Makefile.in. In short "./configure; make test", and if that goes
well, "make install" should work for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use
make_vms.com.

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

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997
issue of Dr. Dobb's Journal; a copy of the article is available at
http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at
http://java.sun.com/developer/technicalArticles/Programming/compression/ .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available
at CPAN (Comprehensive Perl Archive Network) sites, including
http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

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

zlib is built into tcl: http://wiki.tcl.tk/4610 .

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

Notes for some targets:

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

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

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

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

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

- gzdopen is not supported on RISCOS or BEOS.

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

Acknowledgments:

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

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

If you use the zlib library in a product, we would appreciate *not* receiving
lengthy legal documents to sign. The sources are provided for free but without
warranty of any kind. The library has been entirely written by Jean-loup
Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in
the file ChangeLog history information documenting your changes. Please read
the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See
* http://marknelson.us/1997/01/01/zlib-engine/
* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package.
zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib.
Please try to reproduce the problem with a small program and send the
corresponding source to us at zlib@gzip.org . Do not send multi-megabyte
data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or
/usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib
distribution.

12. Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt
the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

make distclean
./configure
make

14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16. Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

> ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so: symbol __register_frame_info: referenced symbol not found

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The gz* functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25. Will zlib work on a big-endian or little-endian architecture, and can I

exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License. Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ
No license file was found, but licenses were detected in source scan.

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The origin of this software must not be misrepresented; you must not
Altered source versions must be plainly marked as such, and must not be
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Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
No license file was found, but licenses were detected in source scan.

For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
No license file was found, but licenses were detected in source scan.

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

 Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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    claim that you wrote the original software. If you use this software
    in a product, an acknowledgment in the product documentation would be
    appreciated but is not required.
 2. Altered source versions must be plainly marked as such, and must not be
    misrepresented as being the original software.
 3. This notice may not be removed or altered from any source distribution.

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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://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

1.138 webencodings 0.5.1

1.138.1 Available under license :

No license file was found, but licenses were detected in source scan.

python-webencodings
==========

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Python's.

Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst

No license file was found, but licenses were detected in source scan.

```
from setuptools import setup, find_packages
import io
from os import path
import re


VERSION = re.search("VERSION = '([^']+)'", io.open(
  path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
  encoding='utf-8'
).read().strip()).group(1)

LONG_DESCRIPTION = io.open(
  path.join(path.dirname(__file__), 'README.rst'),
  encoding='utf-8'
).read()


setup(
  name='webencodings',
  version=VERSION,
  url='https://github.com/SimonSapin/python-webencodings',
  license='BSD',
  author='Simon Sapin',
  author_email='simon.sapin@exyr.org',
  maintainer='Geoffrey Sneddon',
  maintainer_email='me@gsnedders.com',
  description='Character encoding aliases for legacy web content',
  long_description=LONG_DESCRIPTION,
  classifiers=[
    'Development Status :: 4 - Beta',
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: WWW/HTTP',
  ],
  packages=find_packages(),
```

)

Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
No license file was found, but licenses were detected in source scan.

"""

  webencodings.mklabels
  ~~~~~~~~~~~~~~~~~~~~~

  Regenarate the webencodings.labels module.

  :copyright: Copyright 2012 by Simon Sapin
  :license: BSD, see LICENSE for details.

"""

import json
try:
  from urllib import urlopen
except ImportError:
  from urllib.request import urlopen

def assert_lower(string):
  assert string == string.lower()
  return string

def generate(url):
  parts = ['''\
"""

  webencodings.labels
  ~~~~~~~~~~~~~~~~~~~

  Map encoding labels to their name.

  :copyright: Copyright 2012 by Simon Sapin
  :license: BSD, see LICENSE for details.

"""

XXX Do not edit!
This file is automatically generated by mklabels.py

```
LABELS = {
"']
  labels = [
     (repr(assert_lower(label)).lstrip('u'),
      repr(encoding['name']).lstrip('u'))
     for category in json.loads(urlopen(url).read().decode('ascii'))
     for encoding in category['encodings']
     for label in encoding['labels']]
  max_len = max(len(label) for label, name in labels)
  parts.extend(
     '    %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
     for label, name in labels)
  parts.append('}')
  return ''.join(parts)


if __name__ == '__main__':
  print(generate('http://encoding.spec.whatwg.org/encodings.json'))
```

Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
No license file was found, but licenses were detected in source scan.

:license: BSD, see LICENSE for details.

Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings
      ==========

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Python's.

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* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO
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1.139 packaging 21.3

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1.140 pycparser 2.21

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1.147 bzip2 1.0.8-4

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1.148 selinux 3.1-3

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1.152 ucf 3.0043

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1.153 cpp 1.190

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1.154 bcrypt 4.0.1

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1.155 python-setuptools 65.5.0

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1.156 glibc 2.31-13+deb11u5

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1.163 distlib 0.3.6

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1

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==========

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distlib has started off using some of the code from distutil2.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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##
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1.176 python-dotenv 1.0.0

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1.177 curl 7.74.0-1.3+deb11u7

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1.178 tenacity 8.2.2

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1.179 zlib 1.2.7-21.el7_9

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1.180 bzip2 1.0.6-13.el7

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1.181 sed 4.7-1

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1.182 libtiff 4.2.0-1+deb11u4

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1.183 pcre 10.36-2+deb11u1

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1.184 public-suffix 20220811.1734-0+deb11u1

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1.185 wheel 0.40.0

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1.186 msgpack 1.0.5

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clunkiness and unfortunate decisions.
Both were inspired by Twisteds
[FancyEqMixin](https://docs.twisted.org/en/stable/api/twisted.python.util.FancyEqMixin.html) but both are
implemented using class decorators because [subclassing is bad for
you](https://www.youtube.com/watch?v=3MNVP9-hglc), mkay?
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1.188 libxml2 2.9.10+dfsg-6.7+deb11u4

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1.189 python-pip 23.1.2

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file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
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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.

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes

2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
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	from		compatible? (1)
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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
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-- vile: txtmode file-encoding=utf-8

1.192 grep 3.6-1+deb11u1

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1.199 python-certifi 2023.05.07

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.200 libwebp 0.6.1-2.1+deb11u1

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1.201 python-requests 2.31.0

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1.202 urllib3 1.26.16

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1.203 paramiko 3.2.0

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1.206 openssl 1.1.1u

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The End

1.207 urllib3 2.0.3

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1.208 python 3.11.4

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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 https://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 https://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, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://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

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
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is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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1.209 libalgorithm-diff-perl 1.201-1

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---
abstract: unknown
author:
 - unknown
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.46, CPAN::Meta::Converter version 2.150010'

```
license: unknown
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Algorithm-Diff
no_index:
 directory:
   - t
   - inc
version: '1.201'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'
```

Found in path(s):
* /opt/cola/permits/1715453514_1686310426.8819616/0/libalgorithm-diff-perl-1-201-orig-1-tar-gz/Algorithm-Diff-1.201/META.yml
No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/perl -w
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
use strict;

use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
   -c will do a context diff with 3 lines of context
   -C will do a context diff with 'lines' lines of context
   -u will do a unified diff with 3 lines of context
   -U will do a unified diff with 'lines' lines of context
ENDUSAGE
```

```
getopts('U:C:cu') or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
  $opt_c = ""; # -c on if -C given on command line
  $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
  $opt_u = ""; # -u on if -U given on command line
  $opt_c = undef;
} else {
  $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
  $Context_Lines = defined $opt_C ? $opt_C : 3;
  $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
  $Context_Lines = defined $opt_U ? $opt_U : 3;
  $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\t", scalar localtime($st->mtime), "\n";

my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
```

```
  $hunk = new Hunk ($piece, $Context_Lines);
  next unless $oldhunk;

  if ($hunk->does_overlap($oldhunk)) {
 $hunk->prepend_hunk($oldhunk);
  } else {
 $oldhunk->output_diff(\@f1, \@f2);
  }

} continue {
  $oldhunk = $hunk;
}

# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM

sub bag {
 my $msg = shift;
 $msg .= "\n";
 warn $msg;
 exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
package Hunk;

sub new {
# Arg1 is output from &LCS::diff (which corresponds to one Block)
# Arg2 is the number of items (lines, e.g.,) of context around each block
#
# This subroutine changes $File_Length_Difference
#
# Fields in a Hunk:
# blocks      - a list of Block objects
# start       - index in file 1 where first block of the hunk starts
# end         - index in file 1 where last block of the hunk ends
#
# Variables:
# before_diff - how much longer file 2 is than file 1 due to all hunks
#               until but NOT including this one
# after_diff  - difference due to all hunks including this one
  my ($class, $piece, $context_items) = @_;
```

```
  my $block = new Block ($piece); # this modifies $FLD!

  my $before_diff = $File_Length_Difference; # BEFORE this hunk
  my $after_diff = $before_diff + $block->{"length_diff"};
  $File_Length_Difference += $block->{"length_diff"};

  # @remove_array and @insert_array hold the items to insert and remove
  # Save the start & beginning of each array. If the array doesn't exist
  # though (e.g., we're only adding items in this block), then figure
  # out the line number based on the line number of the other file and
  # the current difference in file lengths
  my @remove_array = $block->remove;
  my @insert_array = $block->insert;
  my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
  $a1 = @remove_array ? $remove_array[0 ]->{"item_no"} : -1;
  $a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;
  $b1 = @insert_array ? $insert_array[0 ]->{"item_no"} : -1;
  $b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;

  $start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
  $end1   = $a2 == -1 ? $b2 - $after_diff  : $a2;
  $start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
  $end2   = $b2 == -1 ? $a2 + $after_diff  : $b2;

  # At first, a hunk will have just one Block in it
  my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1" => $end1,
    "end2" => $end2,
    "blocks" => [$block],
          };
  bless $hunk, $class;

  $hunk->flag_context($context_items);

  return $hunk;
}

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
  my ($hunk, $context_items) = @_;
  return unless $context_items; # no context

  # add context before
  my $start1 = $hunk->{"start1"};
  my $num_added = $context_items > $start1 ? $start1 : $context_items;
```

```
  $hunk->{"start1"} -= $num_added;
  $hunk->{"start2"} -= $num_added;

  # context after
  my $end1 = $hunk->{"end1"};
  $num_added = ($end1+$context_items > $#f1) ?
               $#f1 - $end1 :
               $context_items;
  $hunk->{"end1"} += $num_added;
  $hunk->{"end2"} += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
  my ($hunk, $oldhunk) = @_;
  return "" unless $oldhunk; # first time through, $oldhunk is empty

  # Do I actually need to test both?
  return ($hunk->{"start1"} - $oldhunk->{"end1"} <= 1 ||
          $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
  my ($hunk, $oldhunk) = @_;

  $hunk->{"start1"} = $oldhunk->{"start1"};
  $hunk->{"start2"} = $oldhunk->{"start2"};

  unshift (@{$hunk->{"blocks"}}, @{$oldhunk->{"blocks"}});
}



# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
  if    (defined $main::opt_u) {&output_unified_diff(@_)}
  elsif (defined $main::opt_c) {&output_context_diff(@_)}
  else {die "unknown diff"}
}

sub output_unified_diff {
  my ($hunk, $fileref1, $fileref2) = @_;
  my @blocklist;

  # Calculate item number range.
  my $range1 = $hunk->unified_range(1);
```

```
  my $range2 = $hunk->unified_range(2);
  print "@@ -$range1 +$range2 @@\n";

  # Outlist starts containing the hunk of file 1.
  # Removing an item just means putting a '-' in front of it.
  # Inserting an item requires getting it from file2 and splicing it in.
  #    We splice in $num_added items. Remove blocks use $num_added because
  # splicing changed the length of outlist.
  #    We remove $num_removed items. Insert blocks use $num_removed because
  # their item numbers---corresponding to positions in file *2*--- don't take
  # removed items into account.
  my $low = $hunk->{"start1"};
  my $hi = $hunk->{"end1"};
  my ($num_added, $num_removed) = (0,0);
  my @outlist = @$fileref1[$low..$hi];
  map {s/^/ /} @outlist; # assume it's just context

  foreach my $block (@{$hunk->{"blocks"}}) {
 foreach my $item ($block->remove) {
    my $op = $item->{"sign"}; # -
    my $offset = $item->{"item_no"} - $low + $num_added;
    $outlist[$offset] =~ s/^ /$op/;
    $num_removed++;
 }
 foreach my $item ($block->insert) {
    my $op = $item->{"sign"}; # +
    my $i = $item->{"item_no"};
    my $offset = $i - $hunk->{"start2"} + $num_removed;
    splice(@outlist,$offset,0,"$op$$fileref2[$i]");
    $num_added++;
 }
  }

  map {s/$/\n/} @outlist; # add \n's
  print @outlist;

}

sub output_context_diff {
  my ($hunk, $fileref1, $fileref2) = @_;
  my @blocklist;

  print "**********\n";
  # Calculate item number range.
  my $range1 = $hunk->context_range(1);
  my $range2 = $hunk->context_range(2);

  # Print out file 1 part for each block in context diff format if there are
```

```
  # any blocks that remove items
  print "*** $range1 ****\n";
  my $low = $hunk->{"start1"};
  my $hi  = $hunk->{"end1"};
  if (@blocklist = grep {$_->remove} @{$hunk->{"blocks"}}) {
 my @outlist = @$fileref1[$low..$hi];
 map {s/^/  /} @outlist; # assume it's just context
 foreach my $block (@blocklist) {
    my $op = $block->op; # - or !
    foreach my $item ($block->remove) {
 $outlist[$item->{"item_no"} - $low] =~ s/^ /$op/;
    }
 }
 map {s/$/\n/} @outlist; # add \n's
 print @outlist;
  }

  print "--- $range2 ----\n";
  $low = $hunk->{"start2"};
  $hi  = $hunk->{"end2"};
  if (@blocklist = grep {$_->insert} @{$hunk->{"blocks"}}) {
 my @outlist = @$fileref2[$low..$hi];
 map {s/^/  /} @outlist; # assume it's just context
 foreach my $block (@blocklist) {
    my $op = $block->op; # + or !
    foreach my $item ($block->insert) {
 $outlist[$item->{"item_no"} - $low] =~ s/^ /$op/;
    }
 }
 map {s/$/\n/} @outlist; # add \n's
 print @outlist;
  }
}

sub context_range {
# Generate a range of item numbers to print. Only print 1 number if the range
# has only one item in it. Otherwise, it's 'start,end'
  my ($hunk, $flag) = @_;
  my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
  $start++; $end++;  # index from 1, not zero
  my $range = ($start < $end) ? "$start,$end" : $end;
  return $range;
}

sub unified_range {
# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
```

```
  my ($hunk, $flag) = @_;
  my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
  $start++; $end++;  # index from 1, not zero
  my $length = $end - $start + 1;
  my $first = $length < 2 ? $end : $start; # strange, but correct...
  my $range = $length== 1 ? $first : "$first,$length";
  return $range;
}
} # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;
sub new {
# Input is a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign        - '+' for insert, '-' for remove
# item_no     - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
  my ($class,$chunk) = @_;
  my @changes = ();

# This just turns each change into a hash.
  foreach my $item (@$chunk) {
 my ($sign, $item_no, $text) = @$item;
 my $hashref = {"sign" => $sign, "item_no" => $item_no};
 push @changes, $hashref;
  }

  my $block = { "changes" => \@changes };
  bless $block, $class;

  $block->{"length_diff"} = $block->insert - $block->remove;
  return $block;
}


# LOW LEVEL FUNCTIONS
sub op {
# what kind of block is this?
  my $block = shift;
  my $insert = $block->insert;
```

```
  my $remove = $block->remove;

  $remove && $insert and return '!';
  $remove and return '-';
  $insert and return '+';
  warn "unknown block type";
  return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+'} @{shift->{"changes"}}; }

} # end of package Block
```

Found in path(s):
* /opt/cola/permits/1715453514_1686310426.8819616/0/libalgorithm-diff-perl-1-201-orig-1-tar-gz/Algorithm-Diff-1.201/bin/cdiff.pl
No license file was found, but licenses were detected in source scan.

```
=head1 NAME

Algorithm::Diff - Compute `intelligent' differences between two files / lists

=head1 SYNOPSIS

  require Algorithm::Diff;

  # This example produces traditional 'diff' output:

  my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

  $diff->Base( 1 );   # Return line numbers, not indices
  while(  $diff->Next()  ) {
     next   if  $diff->Same();
     my $sep = '';
     if(  ! $diff->Items(2)  ) {
        printf "%d,%dd%d\n",
           $diff->Get(qw( Min1 Max1 Max2 ));
     } elsif(  ! $diff->Items(1)  ) {
        printf "%da%d,%d\n",
           $diff->Get(qw( Max1 Min2 Max2 ));
     } else {
        $sep = "---\n";
        printf "%d,%dc%d,%d\n",
```

```
        $diff->Get(qw( Min1 Max1 Min2 Max2 ));
    }
    print "< $_"   for  $diff->Items(1);
    print $sep;
    print "> $_"   for  $diff->Items(2);
}


# Alternate interfaces:

use Algorithm::Diff qw(
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs    = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count  = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );


# Complicated interfaces:

@diffs  = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
    },
    \&key_generator,
    @extra_args,
);

traverse_balanced(
    \@seq1,
    \@seq2,
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
        CHANGE    => \&callback4,
```

```
    },
    \&key_generator,
    @extra_args,
);
```

=head1 INTRODUCTION

(by Mark-Jason Dominus)

I once read an article written by the authors of C<diff>; they said
that they worked very hard on the algorithm until they found the
right one.

I think what they ended up using (and I hope someone will correct me,
because I am not very confident about this) was the `longest common
subsequence' method. In the LCS problem, you have two sequences of
items:

```
  a b c d f g h j q z

  a b c d e f g i j k r x y z
```

and you want to find the longest sequence of items that is present in
both original sequences in the same order. That is, you want to find
a new sequence I<S> which can be obtained from the first sequence by
deleting some items, and from the second sequence by deleting other
items. You also want I<S> to be as long as possible. In this case I<S>
is

```
  a b c d f g j z
```

From there it's only a small step to get diff-like output:

```
  e  h i  k  q r x y
  +  - +  +  - + + +
```

This module solves the LCS problem. It also includes a canned function
to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is
always pretty obvious, but that's not always the case, especially when
the two sequences have many repeated elements. For example, consider

```
  a x b y c z p d q
  a b c a x b y c z
```

A naive approach might start by matching up the C<a> and C<b> that

appear at the beginning of each sequence, like this:

```
  a x b y c         z p d q
  a   b   c a b y c z
```

This finds the common subsequence C<a b c z>. But actually, the LCS
is C<a x b y c z>:

```
        a x b y c z p d q
  a b c a x b y c z
```

or

```
  a       x b y c z p d q
  a b c a x b y c z
```

=head1 USAGE

(See also the README file and several example
scripts include with this module.)

This module now provides an object-oriented interface that uses less
memory and is easier to use than most of the previous procedural
interfaces. It also still provides several exportable functions. We'll
deal with these in ascending order of difficulty: C<LCS>,
C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>,
C<traverse_sequences>, and C<traverse_balanced>.

=head2 C<LCS>

Given references to two lists of items, LCS returns an array containing
their longest common subsequence. In scalar context, it returns a
reference to such a list.

```
  @lcs    = LCS( \@seq1, \@seq2 );
  $lcsref = LCS( \@seq1, \@seq2 );
```

C<LCS> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.

```
  @lcs    = LCS( \@seq1, \@seq2, \&keyGen, @args );
  $lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
```

Additional parameters, if any, will be passed to the key generation
routine.

=head2 C<LCS_length>

This is just like C<LCS> except it only returns the length of the
longest common subsequence. This provides a performance gain of about
9% compared to C<LCS>.

=head2 C<LCSidx>

Like C<LCS> except it returns references to two arrays. The first array
contains the indices into @seq1 where the LCS items are located. The
second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

```
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
my @list1 = @seq1[ @$idx1 ];
my @list2 = @seq2[ @$idx2 ];
my @list3 = LCS( \@seq1, \@seq2 );
```

=head2 C<new>

```
$diff = Algorithm::Diff->new( \@seq1, \@seq2 );
$diff = Algorithm::Diff->new( \@seq1, \@seq2, \%opts );
```

C<new> computes the smallest set of additions and deletions necessary
to turn the first sequence into the second and compactly records them
in the object.

You use the object to iterate over I<hunks>, where each hunk represents
a contiguous section of items which should be added, deleted, replaced,
or left unchanged.

The following summary of all of the methods looks a lot like Perl code
but some of the symbols have different meanings:

```
[ ]   Encloses optional arguments
:     Is followed by the default value for an optional argument
|     Separates alternate return results
```

Method summary:

```
$obj      = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos      = $obj->Next(  [ $count : 1 ] );
$revPos   = $obj->Prev(  [ $count : 1 ] );
$obj      = $obj->Reset( [ $pos : 0 ] );
$copy     = $obj->Copy(  [ $pos, [ $newBase ] ] );
$oldBase  = $obj->Base(  [ $newBase ] );
```

Note that all of the following methods C<die> if used on an object that

is "reset" (not currently pointing at any hunk).

```
  $bits      = $obj->Diff(  );
  @items|$cnt = $obj->Same(  );
  @items|$cnt = $obj->Items( $seqNum );
  @idxs |$cnt = $obj->Range( $seqNum, [ $base ] );
  $minIdx     = $obj->Min(   $seqNum, [ $base ] );
  $maxIdx     = $obj->Max(   $seqNum, [ $base ] );
  @values     = $obj->Get(   @names );
```

Passing in C<undef> for an optional argument is always treated the same
as if no argument were passed in.

=over 4

=item C<Next>

```
  $pos = $diff->Next();    # Move forward 1 hunk
  $pos = $diff->Next( 2 ); # Move forward 2 hunks
  $pos = $diff->Next(-5);  # Move backward 5 hunks
```

C<Next> moves the object to point at the next hunk. The object starts
out "reset", which means it isn't pointing at any hunk. If the object
is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk.
So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number
between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth
previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move
to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the
hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

```
  $diff->Reset();     # Reset the object's position
  $diff->Reset($pos); # Move to the specified hunk
  $diff->Reset(1);    # Move to the first hunk
  $diff->Reset(-1);   # Move to the last hunk
```

C<Reset> returns the object, so, for example, you could use

C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

  $copy = $diff->Copy($newPos, $newBase);

C<Copy> returns a copy of the object. The copy and the original object
share most of their data, so making copies takes very little memory.
The copy maintains its own position (separate from the original), which
is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original
object's position. But C<Copy> takes an optional first argument to set the
new position, so the following three snippets are equivalent:

  $copy = $diff->Copy($pos);

  $copy = $diff->Copy();
  $copy->Reset($pos);

  $copy = $diff->Copy()->Reset($pos);

C<Copy> takes an optional second argument to set the base for
the copy. If you wish to change the base of the copy but leave
the position the same as in the original, here are two
equivalent ways:

  $copy = $diff->Copy();
  $copy->Base(0);

  $copy = $diff->Copy(undef,0);

Here are two equivalent way to get a "reset" copy:

  $copy = $diff->Copy(0);

  $copy = $diff->Copy()->Reset();

=item C<Diff>

  $bits = $obj->Diff();

C<Diff> returns a true value iff the current hunk contains items that are
different between the two sequences. It actually returns one of the
follow 4 values:

=over 4

=item Z<>3

C<3==(1|2)>. This hunk contains items from @seq1 and the items
from @seq2 that should replace them. Both sequence 1 and 2
contain changed items so both the 1 and 2 bits are set.

=item Z<>2

This hunk only contains items from @seq2 that should be inserted (not
items from @seq1). Only sequence 2 contains changed items so only the 2
bit is set.

=item Z<>1

This hunk only contains items from @seq1 that should be deleted (not
items from @seq2). Only sequence 1 contains changed items so only the 1
bit is set.

=item Z<>0

This means that the items in this hunk are the same in both sequences.
Neither sequence 1 nor 2 contain changed items so neither the 1 nor the
2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that
are the same in both sequences. It actually returns the list of items
if they are the same or an empty list if they aren't. In a scalar
context, it returns the size of the list.

=item C<Items>

```
  $count = $diff->Items(2);
  @items = $diff->Items($seqNum);
```

C<Items> returns the (number of) items from the specified sequence that
are part of the current hunk.

If the current hunk contains only insertions, then
C<< $diff->Items(1) >> will return an empty list (0 in a scalar context).
If the current hunk contains only deletions, then C<< $diff->Items(2) >>
will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both C<< $diff->Items(1) >> and
C<< $diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following
will return the same lists:

```
@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();
```

=item C<Range>

```
$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );
```

C<Range> is like C<Items> except that it returns a list of I<indices> to
the items rather than the items themselves. By default, the index of
the first item (in each sequence) is 0 but this can be changed by
calling the C<Base> method. So, by default, the following two snippets
return the same lists:

```
@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];
```

You can also specify the base to use as the second argument. So the
following two snippets I<always> return the same lists:

```
@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];
```

=item C<Base>

```
$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);
```

C<Base> sets and/or returns the current base (usually 0 or 1) that is
used when you request range information. The base defaults to 0 so
that range information is returned as array indices. You can set the
base to 1 if you want to report traditional line numbers instead.

=item C<Min>

```
$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );
```

C<Min> returns the first value that C<Range> would return (given the
same arguments) or returns C<undef> if C<Range> would return an empty
list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

```
( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));
```

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

```
/^(-?\d+)?(min|max)[12]$/i
/^(range[12]|same|diff|base)$/i
```

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

```
$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)
```

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

```
$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )
{
   @lcs = LCS( $prep, $seq[$i] );
   # do something useful with @lcs
}
```

C<prepare> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

```
$prep = prepare( \@seq1, \&keyGen );
for $i ( 0 .. 10_000 )
{
```

```
    @lcs = LCS( $seq[$i], $prep, \&keyGen );
    # do something useful with @lcs
  }
```

Using C<prepare> provides a performance gain of about 50% when calling LCS
many times compared with not preparing.

=head2 C<diff>

```
  @diffs     = diff( \@seq1, \@seq2 );
  $diffs_ref = diff( \@seq1, \@seq2 );
```

C<diff> computes the smallest set of additions and deletions necessary
to turn the first sequence into the second, and returns a description
of these changes. The description is a list of I<hunks>; each hunk
represents a contiguous section of items which should be added,
deleted, or replaced. (Hunks containing unchanged items are not
included.)

The return value of C<diff> is a list of hunks, or, in scalar context, a
reference to such a list. If there are no differences, the list will be
empty.

Here is an example. Calling C<diff> for the following two sequences:

```
  a b c e h j l m n p
  b c d e f j k l m r s t
```

would produce the following list:

```
  (
    [ [ '-', 0, 'a' ] ],

    [ [ '+', 2, 'd' ] ],

    [ [ '-', 4, 'h' ],
      [ '+', 4, 'f' ] ],

    [ [ '+', 6, 'k' ] ],

    [ [ '-',  8, 'n' ],
      [ '-',  9, 'p' ],
      [ '+',  9, 'r' ],
      [ '+', 10, 's' ],
      [ '+', 11, 't' ] ],
  )
```

There are five hunks here. The first hunk says that the C<a> at

position 0 of the first sequence should be deleted (C<->). The second hunk says that the C<d> at position 2 of the second sequence should be inserted (C<+>). The third hunk says that the C<h> at position 4 of the first sequence should be removed and replaced with the C<f> from position 4 of the second sequence. And so on.

C<diff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<sdiff>

```
@sdiffs     = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );
```

C<sdiff> computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility I<sdiff> does:

```
same            same
before    |     after
old       <     -
-         >     new
```

It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

```
a b c e h j l m n p
b c d e f j k l m r s t
```

results in

```
( [ '-', 'a', ''  ],
  [ 'u', 'b', 'b' ],
  [ 'u', 'c', 'c' ],
  [ '+', '',  'd' ],
```

```
    [ 'u', 'e', 'e' ],
    [ 'c', 'h', 'f' ],
    [ 'u', 'j', 'j' ],
    [ '+', '',  'k' ],
    [ 'u', 'l', 'l' ],
    [ 'u', 'm', 'm' ],
    [ 'c', 'n', 'r' ],
    [ 'c', 'p', 's' ],
    [ '+', '',  't' ],
  )
```

C<sdiff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<sdiff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

```
  my @a = qw( a b c   e  h j   l m n p      );
  my @b = qw(   b c d e f  j k l m    r s t );
  @cdiff = compact_diff( \@a, \@b );
  # Returns:
  #   @a      @b      @a      @b
  #  start   start   values   values
  (    0,      0,   #      =
       0,      0,   #    a  !
       1,      0,   #  b c  =  b c
       3,      2,   #      !  d
       3,      3,   #    e  =  e
       4,      4,   #    f  !  h
       5,      5,   #    j  =  j
       6,      6,   #      !  k
       6,      7,   #  l m  =  l m
       8,      9,   #  n p  !  r s t
      10,     12,   #
  );
```

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items C<$diff[0]> through C<$diff[2] - 1> of the first sequence and contains items C<$diff[1]> through C<$diff[3] - 1> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```
        #  1st pair     2nd pair
        # of indices    of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
        # Hunk start    Hunk end
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```
@hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];
```

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```
    @hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
    @hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
  # or
    @hunk2a = @a[ 0 .. 1-1 ];
    @hunk2b = @b[ 0 .. 0-1 ];
  # or
    @hunk2a = @a[ 0 .. 0 ];
    @hunk2b = @b[ 0 .. -1 ];
  # or
    @hunk2a = ( 'a' );
    @hunk2b = ( );
```

That is, we would delete item 0 ('a') from @a.

Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```
    @hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
    @hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
  # or
    @hunk3a = @a[ 1 .. 3-1 ];
    @hunk3a = @b[ 0 .. 2-1 ];
  # or
    @hunk3a = @a[ 1 .. 2 ];
    @hunk3a = @b[ 0 .. 1 ];
  # or
    @hunk3a = qw( b c );
    @hunk3a = qw( b c );
```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 C<traverse_sequences>

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified

callback function before each advance. It will advance the arrows in
such a way that if there are equal elements C<$A[$i]> and C<$B[$j]>
which are equal and which are part of the LCS, there will be some moment
during the execution of C<traverse_sequences> when arrow A is pointing
to C<$A[$i]> and arrow B is pointing to C<$B[$j]>. When this happens,
C<traverse_sequences> will call the C<MATCH> callback function and then
it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence
that is not part of the LCS. C<traverse_sequences> will advance that
arrow and will call the C<DISCARD_A> or the C<DISCARD_B> callback,
depending on which arrow it advanced. If both arrows point to elements
that are not part of the LCS, then C<traverse_sequences> will advance
one of them and call the appropriate callback, but it is not specified
which it will call.

The arguments to C<traverse_sequences> are the two sequences to
traverse, and a hash which specifies the callback functions, like this:

```
  traverse_sequences(
     \@seq1, \@seq2,
     {   MATCH => $callback_1,
         DISCARD_A => $callback_2,
         DISCARD_B => $callback_3,
     }
  );
```

Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least
the indices of the two arrows as their arguments. They are not expected
to return any values. If a callback is omitted from the table, it is
not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the
corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does,
C<traverse_sequences> will call the C<A_FINISHED> callback when it
advances arrow B, if there is such a function; if not it will call
C<DISCARD_B> instead. Similarly if arrow B finishes first.
C<traverse_sequences> returns when both arrows are at the ends of their
respective sequences. It returns true on success and false on failure.
At present there is no way to fail.

C<traverse_sequences> may be passed an optional fourth parameter; this
is a CODE reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't
need a custom key generation function, you can get the default by
passing undef:

```
  traverse_sequences(
     \@seq1, \@seq2,
     {   MATCH => $callback_1,
         DISCARD_A => $callback_2,
         DISCARD_B => $callback_3,
     },
     undef,     # default key-gen
     $myArgument1,
     $myArgument2,
     $myArgument3,
  );
```

C<traverse_sequences> does not have a useful return value; you are
expected to plug in the appropriate behavior with the callback
functions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It
uses a different algorithm to iterate through the entries in the
computed LCS. Instead of sticking to one side and showing element changes
as insertions and deletions only, it will jump back and forth between
the two sequences and report I<changes> occurring as deletions on one
side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks
supported by C<traverse_sequences>, C<traverse_balanced> supports
a C<CHANGE> callback indicating that one element got C<replaced> by another:

```
  traverse_balanced(
     \@seq1, \@seq2,
     {   MATCH => $callback_1,
         DISCARD_A => $callback_2,
         DISCARD_B => $callback_3,
         CHANGE    => $callback_4,
     }
  );
```

If no C<CHANGE> callback is specified, C<traverse_balanced>
will map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions,
therefore resulting in a similar behaviour as C<traverse_sequences>
with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>,
noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to
C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to
plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a
CODE reference to a key generating (hashing) function that should return
a string that uniquely identifies a given element. It should be the
case that if two elements are to be considered equal, their keys should
be the same (and the other way around). If no key generation function
is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys
using the default stringizing operator '""'.

Where this is important is when you're comparing something other than
strings. If it is the case that you have multiple different objects
that should be considered to be equal, you should supply a key
generation function. Otherwise, you have to make sure that your arrays
contain unique references.

For instance, consider this example:

```
  package Person;

  sub new
  {
     my $package = shift;
     return bless { name => '', ssn => '', @_ }, $package;
  }

  sub clone
  {
     my $old = shift;
     my $new = bless { %$old }, ref($old);
  }

  sub hash
  {
     return shift()->{'ssn'};
  }
```

```
  my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
  my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
  my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
  my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
  my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );
```

If you did this:

```
  my $array1 = [ $person1, $person2, $person4 ];
  my $array2 = [ $person1, $person3, $person4, $person5 ];
  Algorithm::Diff::diff( $array1, $array2 );
```

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

```
  my $array1 = [ $person1, $person2, $person4 ];
  my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
  Algorithm::Diff::diff( $array1, $array2 );
```

$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

```
  my $array1 = [ $person1, $person2, $person4 ];
  my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
  Algorithm::Diff::diff( $array1, $array2, \&Person::hash );
```

This would use the 'ssn' field in each Person as a comparison key, and so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

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=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing
list for announcements related to diff and Algorithm::Diff, send an
empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus

This version borrows some documentation and routine names from
Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko
<mario@wolczko.com>, which is available at
ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli
<m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few
minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):
* /opt/cola/permits/1715453514_1686310426.8819616/0/libalgorithm-diff-perl-1-201-orig-1-tar-gz/Algorithm-Diff-1.201/lib/Algorithm/Diff.pm
No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl
#
`Diff' program in Perl
Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
This program is free software; you can redistribute it and/or modify it

```
# under the same terms as Perl itself.
#

use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {

 foreach $line (@$chunk) {
   my ($sign, $lineno, $text) = @$line;
   printf "%4d$sign %s\n", $lineno+1, $text;
 }
 print "--------\n";
}
exit 1;

sub bag {
 my $msg = shift;
 $msg .= "\n";
 warn $msg;
 exit 2;
}
```

Found in path(s):
* /opt/cola/permits/1715453514_1686310426.8819616/0/libalgorithm-diff-perl-1-201-orig-1-tar-gz/Algorithm-Diff-1.201/bin/diff.pl
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```
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```

under the same terms as Perl itself.

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1.210 libx11 1.7.2-1+deb11u1

1.210.1 Available under license :

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1.211 example2 1.0.0

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* /opt/cola/permits/1467982526_1693485924.3351557/0/it-tidalwave-netbeans-examples-nodes-example2-1-0-0-sources-1-jar/it/tidalwave/netbeans/examples/nodes/example2/view/HiddenFilesInItalicsDisplayable.java
* /opt/cola/permits/1467982526_1693485924.3351557/0/it-tidalwave-netbeans-examples-nodes-example2-1-0-0-sources-1-jar/it/tidalwave/netbeans/examples/nodes/example2/view/NodesExample2.java
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1.212 typing-extensions 4.7.1

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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 https://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 https://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, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see

https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
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1.213 python-lxml 4.9.3

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1.214 charset-normalizer 3.2.0

1.214.1 Available under license :

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1.215 frozenlist 1.4.0

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1.216 jsonschema 4.18.3

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1.217 pyyaml 6.0.1

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1.218 jsonschema-specifications 2023.7.1

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1.219 urllib3 2.0.4

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1.220 python-certifi 2023.7.22

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ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.221 python-pip 23.2.1

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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Python was created in the early 1990s by Guido van Rossum at Stichting

Mathematisch Centrum (CWI, see https://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 https://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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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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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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.

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes

2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.222 python-certifi 2023.07.22

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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1.223 paramiko 3.3.1

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1.224 rich 13.5.2

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1.225 cryptography 41.0.3

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1.232 async-timeout 4.0.3

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1.233 click 8.1.7

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* /opt/cola/permits/1768276572_1692297746.6031988/0/pallets-click-8-1-7-0-g874ca2b-tar-gz/pallets-click-006ae84/CODE_OF_CONDUCT.md
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* /opt/cola/permits/1768276572_1692297746.6031988/0/pallets-click-8-1-7-0-g874ca2b-tar-gz/pallets-click-006ae84/tests/test_formatting.py
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.. _contrib:

=============
click-contrib
=============

As the number of users of Click grows, more and more major feature requests are
made. To users it may seem reasonable to include those features with Click;
however, many of them are experimental or aren't practical to support
generically. Maintainers have to choose what is reasonable to maintain in Click
core.

The click-contrib_ GitHub organization exists as a place to collect third-party
packages that extend Click's features. It is also meant to ease the effort of
searching for such extensions.

Please note that the quality and stability of those packages may be different
than Click itself. While published under a common organization, they are still
separate from Click and the Pallets maintainers.

.. _click-contrib: https://github.com/click-contrib/

Found in path(s):
* /opt/cola/permits/1768276572_1692297746.6031988/0/pallets-click-8-1-7-0-g874ca2b-tar-gz/pallets-click-006ae84/docs/contrib.rst
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* /opt/cola/permits/1768276572_1692297746.6031988/0/pallets-click-8-1-7-0-g874ca2b-tar-gz/pallets-click-006ae84/setup.cfg
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* /opt/cola/permits/1768276572_1692297746.6031988/0/pallets-click-8-1-7-0-g874ca2b-tar-gz/pallets-click-006ae84/src/click/parser.py

1.234 linux-libc-dev 5.10.191-1

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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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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi
```

Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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1.239 libsodium 1.0.18-8.fc35

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