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1.6 diffutils 1:3.7-3

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1.8 iconv 2.31

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1.10 libcap-ng 0.7.9-2.1build1

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1.11 d-conf 0.36.0-1

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Corresponding Source in
the same way through the same place at no
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1.14 libsemanage-common 3.0-1build2

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containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

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

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

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

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

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1.15 selinux 3.0-1build2

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1.17 adduser 3.118ubuntu2

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Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<sr1@inf.tu-dresden.de>.

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
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Since March 24 2004, it is maintained by Roland Bauerschmidt
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1.19 debianutils 4.9.1

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1.24 libffi 3.3-4

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1.25 base-passwd 3.5.47

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1.27 cracklib 2.9.6-3.2

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in order to run.
^L

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

d) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

^L

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file to most
effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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Boston, MA 02110-1301 USA

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

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

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

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

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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

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

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

University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
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> and see if he wants to relicense his code as LGPL... but at this point,
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> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
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=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro

maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

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

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages

> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

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

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

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed

as of 2007-10-01 with the following email from Alec Muffett.

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

From
 alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]

Status: RO
Content-Length:
585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.28 libpwquality 1.4.2-1build1

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1.31 golang-protobuf-extensions v1.0.1

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1.36 libxcrypt 4.4.10-10ubuntu4

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1.37 sysv-init 2.96-2.1ubuntu1

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1.39 scowl 2018.04.16-1

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From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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/* checkTag : validation tool for libzstd
* command :
* $ ./checkTag tag
* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
* The tag is then compared to zstd version number.
* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
* When they are compatible, it exists with a code 0.
* checkTag is intended to be used in automated testing environment.
*/

1.42 libtasn 4.16.0-2

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1.47 mux v1.8.0

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1.48 libaudit 1:2.8.5-2ubuntu6

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1.52 libmagic 1:5.38-4

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1.53 libdconf1 0.36.0-1

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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Date: Sat, 08 Jul 2000 20:27:21
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From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.

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at least 2 of the 12
dictionaries as indicated by the 12Dicts package.

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#
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#
#   Changelog:
#
#   2000-01-05  Björn Jacke <bjoern.jacke@gmx.de>
#             - first version with translation rules derived from
#               metaphone.cc distributed with aspell 0.28.3
#             - "TH" is now representated as "@" because "0" is a
#               meta character
#             - removed TH(!vowel) --> T; always use TH --> # instead
#             - dropped "^AE" -> "E" (redundant)
#             - "ing" is transformed to "N", not "NK"
#             - "SCH(EO)" transforms to "SK" now
#             - added R --> SILENT if (after a vowel) and no (vowel or
#               "y" follows) like in "Marcy" or "abort"
#             - H is SILENT in RH at beginning of words
#             - H is SILENT if vowel leads and "Y" follows
#             - some ".OUGH.."  --> ...F exceptions added
#             - "^V" transforms
 to "W"
#   2000-01-07  Kevin Atkinson <kevinatk@home.com>
#             Converted from header to data file.
#
```

1.55 libpwquality-common 1.4.2-1build1

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1.59 libcrack 2.9.6-3.2

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1.65 tdb 1.45.5

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1.67 icu 66.1-2ubuntu2.1

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
```

```
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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1.74 bash 5.0-6ubuntu1.2

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1.80 e2fsprogs 1.45.5-2ubuntu1.1

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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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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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This package was added to the e2fsprogs debian source package by
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Index: tdbsa/tdb.c
===
--- 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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Gadi Oxman, August 1995

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<signature of Ty Coon>, 1 April 1989
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    Theodore Ts'o
    23-June-2007

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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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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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
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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.

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.85 githubcomgoyamlyaml v2.4.0

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1.88 pcre 10.34-7ubuntu0.1

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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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

Not copyrighted -- provided to the public domain

Found in path(s):
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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/1445162814_1666092919.423293/0/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.

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

Found in path(s):
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
/* 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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misrepresented as being the original software.
3. This notice may not be removed or altered from any source
distribution.

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).
*/

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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

/* gzappend -- command to append to a gzip file

Copyright (C) 2003, 2012 Mark Adler, all rights reserved
version 1.2, 11 Oct 2012

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2. Altered source versions must be plainly marked as such, and must not be
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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/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.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/1445162814_1666092919.423293/0/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.

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

Found in path(s):
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.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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Changes

See header of unzip64.c

*/

Found in path(s):
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

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

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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/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

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
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warranty of any kind. The library has been entirely written by Jean-loup
Gailly and Mark Adler; it does not include
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* /opt/cola/permits/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
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* /opt/cola/permits/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

```
/* 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/1445162814_1666092919.423293/0/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
 Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
 version 2.2, 14 Aug 2012

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 Mark Adler    madler@alumni.caltech.edu
*/
```

Found in path(s):
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

```
/* 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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/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.

/* 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/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

1.94 zlib1g 1:1.2.11.dfsg-2ubuntu1.5

1.94.1 Available under license :

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

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

1.95 observability-metrics-api (devel)

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metrics from the pseudo-filesystem proc.

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1.106 libpammodulesbin 1.3.1-5ubuntu4.6

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1.107 tar 1.30+dfsg-7ubuntu0.20.04.3

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1.108 mattn-go-isatty 0.0.14

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1.109 libpkit 0.23.20-1ubuntu0.1

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1.110 x-net 0.8.0

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1.111 x-sys 0.6.0

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1.112 x-sys v0.6.0

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1.113 base-files 11ubuntu5.7

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you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny

Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick

Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin

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Nikitser, Peter A.
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Percival, Ted
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Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo

Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove

Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.115 libxml2 2.9.10+dfsg-5ubuntu0.20.04.6

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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?MAKE: -pick add $@ %<
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?S: This variable conditionally defines the HAS_TRUNC symbol, which
?S: indicates to the C program that the trunc() routine is available
?S: to round doubles towards zero.

?S:.
?C:HAS_TRUNC:
?C: This symbol, if defined, indicates that the trunc routine is
?C: available to round doubles towards zero.
?C:.
?H:#$d_trunc HAS_TRUNC /**/
?H:.
?LINT:set d_trunc
: see if trunc exists
set trunc d_trunc
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_trunc.U
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?MAKE:d_towlower: Inlibc
?MAKE: -pick add $@ %<
?S:d_towlower:
?S: This variable conditionally defines the HAS_TOWLOWER symbol, which
?S: indicates to the C program that the towlower() routine is available.
?S:.
?C:HAS_TOWLOWER:
?C: This symbol, if defined, indicates that the towlower () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towlower HAS_TOWLOWER /**/
?H:.
?LINT:set d_towlower
: see if towlower exists
set towlower d_towlower
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_towlower.U
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?MAKE: -pick add $@ %<
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available.  If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL  /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_aintl.U
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?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ".  This
?X: probably isn't necessary, but I'm paranoid.  About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Null.U
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```
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?RCS:
?MAKE:d_exp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_exp2:
?S: This variable conditionally defines the HAS_EXP2 symbol, which
?S: indicates to the C program that the exp2() routine is available.
?S:.
?C:HAS_EXP2:
?C: This symbol, if defined, indicates that the exp2 routine is
?C: available to do the 2**x function.
?C:.
?H:#$d_exp2 HAS_EXP2  /**/
?H:.
?LINT:set d_exp2
: see if exp2 exists
set exp2 d_exp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_exp2.U
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```
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?RCS:
?MAKE:d_lrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrint:
?S: This variable conditionally defines the HAS_LRINT symbol, which
?S: indicates to the C program that the lrint() routine is available
?S: to return the integral value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINT:
?C: This symbol, if defined, indicates that the lrint routine is
?C: available to return the integral value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrint HAS_LRINT  /**/
```

?H:.
?LINT:set d_lrint
: see if lrint exists
set lrint d_lrint
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lrint.U
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?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetntop HAS_INETNTOP /**/
?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_inetntop.U
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?RCS:

?MAKE:d_isfinitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#$d_isfinitel HAS_ISFINITEL /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isfinitel.U
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?RCS:
?MAKE:d_llround: Inlibc
?MAKE: -pick add $@ %<
?S:d_llround:
?S: This variable conditionally defines the HAS_LLROUND symbol, which
?S: indicates to the C program that the llround() routine is available
?S: to return the long long value nearest to x.
?S:.
?C:HAS_LLROUND:
?C: This symbol, if defined, indicates that the llround routine is
?C: available to return the nearest long long value.
?C:.
?H:#$d_llround HAS_LLROUND /**/
?H:.
?LINT:set d_llround
: see if llround exists
set llround d_llround
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llround.U

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?RCS:
?MAKE:d_erf: Inlibc
?MAKE: -pick add $@ %<
?S:d_erf:
?S: This variable conditionally defines the HAS_ERF symbol, which
?S: indicates to the C program that the erf() routine is available.
?S:.
?C:HAS_ERF:
?C: This symbol, if defined, indicates that the erf routine is
?C: available to do the error function.
?C:.
?H:#$d_erf HAS_ERF /**/
?H:.
?LINT:set d_erf
: see if erf exists
set erf d_erf
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erf.U
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?RCS: $Id: i_socks.U,v $
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?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system

```
set socks.h i_socks
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_socks.U
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```
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?RCS:
?MAKE:d_erfc: Inlibc
?MAKE: -pick add $@ %<
?S:d_erfc:
?S: This variable conditionally defines the HAS_ERFC symbol, which
?S: indicates to the C program that the erfc() routine is available.
?S:.
?C:HAS_ERFC:
?C: This symbol, if defined, indicates that the erfc routine is
?C: available to do the complementary error function.
?C:.
?H:#$d_erfc HAS_ERFC  /**/
?H:.
?LINT:set d_erfc
: see if erfc exists
set erfc d_erfc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erfc.U
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```
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?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add $@ %<
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
```

?C: available to stat filesystems in bulk.
?C:.
?H:#$d_getfsstat HAS_GETFSSTAT /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getfsstat.U
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?RCS:
?MAKE:d_fma: Inlibc
?MAKE: -pick add $@ %<
?S:d_fma:
?S: This variable conditionally defines the HAS_FMA symbol, which
?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#$d_fma HAS_FMA /**/
?H:.
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fma.U
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?RCS:
?MAKE:d_finite: Inlibc
?MAKE: -pick add $@ %<

```
?S:d_finite:
?S: This variable conditionally defines the HAS_FINITE symbol, which
?S: indicates to the C program that the finite() routine is available.
?S:.
?C:HAS_FINITE:
?C: This symbol, if defined, indicates that the finite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?H:#$d_finite HAS_FINITE  /**/
?H:.
?LINT:set d_finite
: see if finite exists
set finite d_finite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_finite.U
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```
?RCS: $Id: i_bfd.U,v $
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?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD  /**/
?H:.
?LINT:set i_bfd
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_bfd.U

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?RCS:
?MAKE:d_qgcvt: Inlibc
?MAKE: -pick add $@ %<
?S:d_qgcvt:
?S: This variable conditionally defines the HAS_QGCVT symbol, which
?S: indicates to the C program that the qgcvt() routine is available.
?S:.
?C:HAS_QGCVT:
?C: This symbol, if defined, indicates that the qgcvt routine is
?C: available to convert long doubles ("quad doubles") to strings.
?C: This is a low-level routine hopefully faster than sprintf.
?C:.
?H:#$d_qgcvt HAS_QGCVT /**/
?H:.
?LINT:set d_qgcvt
: see if qgcvt exists
set qgcvt d_qgcvt
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_qgcvt.U
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?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtoq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtoq routine is
?C: available to convert strings to long longs (quads).

?C:.
?H:#$d_strtoq HAS_STRTOQ /**/
?H:.
?LINT:set d_strtoq
: see if strtoq exists
set strtoq d_strtoq
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtoq.U
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?RCS:
?MAKE:d_remainder: Inlibc
?MAKE: -pick add $@ %<
?S:d_remainder:
?S: This variable conditionally defines the HAS_REMAINDER symbol, which
?S: indicates to the C program that the remainder() routine is available.
?S:.
?C:HAS_REMAINDER:
?C: This symbol, if defined, indicates that the remainder routine is
?C: available to return the floating-point remainder.
?C:.
?H:#$d_remainder HAS_REMAINDER /**/
?H:.
?LINT:set d_remainder
: see if remainder exists
set remainder d_remainder
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remainder.U
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?RCS:
?MAKE:d_logb: Inlibc
?MAKE: -pick add $@ %<
?S:d_logb:
?S: This variable conditionally defines the HAS_LOGB symbol, which
?S: indicates to the C program that the logb() routine is available
?S: to extract the exponent of x.
?S:.

?C:HAS_LOGB:
?C: This symbol, if defined, indicates that the logb routine is
?C: available to do the logb function.
?C:.
?H:#$d_logb HAS_LOGB /**/
?H:.
?LINT:set d_logb
: see if logb exists
set logb d_logb
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_logb.U
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?RCS:
?MAKE:d_llroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llroundl:
?S: This variable conditionally defines the HAS_LLROUNDL symbol, which
?S: indicates to the C program that the llroundl() routine is available
?S: to return the long long value nearest to x away from zero.
?S:.
?C:HAS_LLROUNDL:
?C: This symbol, if defined, indicates that the llroundl routine is
?C: available to return the nearest long long value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_llroundl HAS_LLROUNDL /**/
?H:.
?LINT:set d_llroundl
: see if llroundl exists
set llroundl d_llroundl
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llroundl.U
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?RCS:
?MAKE:d_strtod_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod_l:
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtod_l HAS_STRTOD_L /**/
?H:.
?LINT:set d_strtod_l
: see if strtod_l exists
set strtod_l d_strtod_l
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_strtod_l.U
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?RCS:
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_strtold_l.U
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?RCS:
?MAKE:d_truncl: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncl:
?S: This variable conditionally defines the HAS_TRUNCL symbol, which
?S: indicates to the C program that the truncl() routine is available
?S: to round long doubles towards zero. If copysignl is also present,
?S: we can emulate modfl.
?S:.
?C:HAS_TRUNCL :
?C: This symbol, if defined, indicates that the truncl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_truncl HAS_TRUNCL /**/
?H:.
?LINT:set d_truncl
: see if truncl exists
set truncl d_truncl
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_truncl.U
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?RCS:
?MAKE:d_unordered: Inlibc
?MAKE: -pick add $@ %<
?S:d_unordered:
?S: This variable conditionally defines the HAS_UNORDERED symbol, which
?S: indicates to the C program that the unordered() routine is available.
?S:.
?C:HAS_UNORDERED:
?C: This symbol, if defined, indicates that the unordered routine is
?C: available to check whether two doubles are unordered

?C: (effectively: whether either of them is NaN)
?C:.
?H:#$d_unordered HAS_UNORDERED /**/
?H:.
?LINT:set d_unordered
: see if unordered exists
set unordered d_unordered
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unordered.U
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?RCS:
?MAKE:d_nextafter: Inlibc
?MAKE: -pick add $@ %<
?S:d_nextafter:
?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
?S: is available to return the next machine representable double from
?S: x in direction y.
?S:.
?C:HAS_NEXTAFTER:
?C: This symbol, if defined, indicates that the nextafter routine is
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER /**/
?H:.
?LINT:set d_nextafter
: see if nextafter exists
set nextafter d_nextafter
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nextafter.U
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?RCS:
?MAKE:d_asinh: Inlibc
?MAKE: -pick add $@ %<
?S:d_asinh:
?S: This variable conditionally defines the HAS_ASINH symbol, which

?S: indicates to the C program that the asinh() routine is available.
?S:.
?C:HAS_ASINH:
?C: This symbol, if defined, indicates that the asinh routine is
?C: available to do the inverse hyperbolic sine function.
?C:.
?H:#$d_asinh HAS_ASINH /**/
?H:.
?LINT:set d_asinh
: see if asinh exists
set asinh d_asinh
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_asinh.U
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?RCS:
?MAKE:d_lroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lroundl:
?S: This variable conditionally defines the HAS_LROUNDL symbol, which
?S: indicates to the C program that the lroundl() routine is available
?S: to return the integral value nearest to x away from zero.
?S:.
?C:HAS_LROUNDL:
?C: This symbol, if defined, indicates that the lroundl routine is
?C: available to return the nearest integral value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_lroundl HAS_LROUNDL /**/
?H:.
?LINT:set d_lroundl
: see if lroundl exists
set lroundl d_lroundl
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lroundl.U
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?RCS:

?MAKE:d_rint: Inlibc
?MAKE: -pick add $@ %<
?S:d_rint:
?S: This variable conditionally defines the HAS_RINT symbol, which
?S: indicates to the C program that the rint() routine is available.
?S:.
?C:HAS_RINT:
?C: This symbol, if defined, indicates that the rint routine is
?C: available to return the nearest integral value to x as double
?C: using the current rounding mode.
?C:.
?H:#$d_rint HAS_RINT /**/
?H:.
?LINT:set d_rint
: see if rint exists
set rint d_rint
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_rint.U
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?RCS: $Id: i_syslog.U,v $
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?RCS:
?MAKE:i_syslog: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_syslog:
?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
?C:.
?H:#$i_syslog I_SYSLOG /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval $inhdr

Found in path(s):

* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_syslog.U
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```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sockatmark: Inlibc
?MAKE: -pick add $@ %<
?S:d_sockatmark:
?S: This variable conditionally defines the HAS_SOCKATMARK symbol, which
?S: indicates to the C program that the sockatmark() routine is available.
?S:.
?C:HAS_SOCKATMARK:
?C: This symbol, if defined, indicates that the sockatmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
?H:#$d_sockatmark HAS_SOCKATMARK  /**/
?H:.
?LINT:set d_sockatmark
: see if sockatmark exists
set sockatmark d_sockatmark
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sockatmark.U
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```
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?RCS:
?MAKE:d_isinfl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isinfl:
?S: This variable conditionally defines the HAS_ISINFL symbol, which
?S: indicates to the C program that the isinfl() routine is available.
?S:.
?C:HAS_ISINFL:
?C: This symbol, if defined, indicates that the isinfl routine is
```

?C: available to check whether a long double is an infinity.
?C:.
?H:#$d_isinfl HAS_ISINFL /**/
?H:.
?LINT:set d_isinfl
: see if isinfl exists
set isinfl d_isinfl
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isinfl.U
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?RCS: $Id: i_shadow.U,v $
?RCS:
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?RCS:
?MAKE:i_shadow: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_shadow:
?S: This variable conditionally defines the I_SHADOW symbol, and indicates
?S: whether a C program should include <shadow.h>.
?S:.
?C:I_SHADOW:
?C: This symbol, if defined, indicates that <shadow.h> exists and
?C: should be included.
?C:.
?H:#$i_shadow I_SHADOW /**/
?H:.
?LINT:set i_shadow
: see if this is a shadow.h system
set shadow.h i_shadow
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_shadow.U
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```
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?RCS:
?MAKE:d_readv: Inlibc
?MAKE: -pick add $@ %<
?S:d_readv:
?S: This variable conditionally defines the HAS_READV symbol, which
?S: indicates to the C program that the readv() routine is available.
?S:.
?C:HAS_READV:
?C: This symbol, if defined, indicates that the readv routine is
?C: available to do gather reads.  You will also need <sys/uio.h>
?C: and there I_SYSUIO.
?C:.
?H:#$d_readv HAS_READV  /**/
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_readv.U
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```
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?RCS:
?MAKE:d_strtold: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold HAS_STRTOLD  /**/
?H:.
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtold.U
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```
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?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#$d_finitel HAS_FINITEL  /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_finitel.U
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```
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?RCS:
?MAKE:d_log1p: Inlibc
?MAKE: -pick add $@ %<
?S:d_log1p:
?S: This variable conditionally defines the HAS_LOG1P symbol, which
?S: indicates to the C program that the logp1() routine is available
?S: to compute log(1 + x) for values of x close to zero.
?S:.
?C:HAS_LOG1P:
?C: This symbol, if defined, indicates that the log1p routine is
```

?C: available to do the logarithm of 1 plus argument function.
?C:.
?H:#$d_log1p HAS_LOG1P /**/
?H:.
?LINT:set d_log1p
: see if log1p exists
set log1p d_log1p
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log1p.U
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/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:40 ram
* patch16: created
*
*/

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/getopt.C
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:

?S: This variable conditionally defines the HAS_STRFTIME symbol, which
?S: indicates to the C program that the strftime() routine is available.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to do time formatting.
?C:.
?H:#$d_strftime HAS_STRFTIME /**/
?H:.
?LINT:set d_strftime
: see if strftime exists
set strftime d_strftime
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strftime.U
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?RCS:
?MAKE:d_copysign: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysign:
?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
?S: indicates to the C program that the copysign() routine is available.
?S:.
?C:HAS_COPYSIGN:
?C: This symbol, if defined, indicates that the copysign routine is
?C: available to do the copysign function.
?C:.
?H:#$d_copysign HAS_COPYSIGN /**/
?H:.
?LINT:set d_copysign
: see if copysign exists
set copysign d_copysign
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysign.U
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?RCS:
?MAKE:d_ilogb: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogb:
?S: This variable conditionally defines the HAS_ILOGB symbol, which
?S: indicates to the C program that the ilogb() routine is available
?S: for extracting the exponent of double x as a signed integer.
?S:.
?C:HAS_ILOGB:
?C: This symbol, if defined, indicates that the ilogb routine is
?C: available to get integer exponent of a floating-point value.
?C:.
?H:#$d_ilogb HAS_ILOGB /**/
?H:.
?LINT:set d_ilogb
: see if ilogb exists
set ilogb d_ilogb
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ilogb.U
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?RCS:
?MAKE:d_writev: Inlibc
?MAKE: -pick add $@ %<
?S:d_writev:
?S: This variable conditionally defines the HAS_WRITEV symbol, which
?S: indicates to the C program that the writev() routine is available.
?S:.
?C:HAS_WRITEV:
?C: This symbol, if defined, indicates that the writev routine is
?C: available to do scatter writes.
?C:.
?H:#$d_writev HAS_WRITEV /**/
?H:.
?LINT:set d_writev
: see if writev exists
set writev d_writev

eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_writev.U
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?RCS:
?MAKE:d_fegetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fegetround:
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
set fegetround d_fegetround
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fegetround.U
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?RCS:
?MAKE:d_fdim: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdim:
?S: This variable conditionally defines the HAS_FDIM symbol, which
?S: indicates to the C program that the fdim() routine is available.
?S:.
?C:HAS_FDIM:
?C: This symbol, if defined, indicates that the fdim routine is
?C: available to do the positive difference function.
?C:.
?H:#$d_fdim HAS_FDIM /**/
?H:.

?LINT:set d_fdim
: see if fdim exists
set fdim d_fdim
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdim.U
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?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isnanl.U
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?RCS:
?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add $@ %<

?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.
?C:.
?H:#$d_getnameinfo HAS_GETNAMEINFO /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getnameinfo.U
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?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-

5.30.0/U/perl/d_getcwd.U
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?RCS:
?MAKE:d_nearbyint: Inlibc
?MAKE: -pick add $@ %<
?S:d_nearbyint:
?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()
?S: is available to return the integral value closest to (according to
?S: the current rounding mode) to x.
?S:.
?C:HAS_NEARBYINT:
?C: This symbol, if defined, indicates that the nearbyint routine is
?C: available to return the integral value closest to (according to
?C: the current rounding mode) to x.
?C:.
?H:#$d_nearbyint HAS_NEARBYINT /**/
?H:.
?LINT:set d_nearbyint
: see if nearbyint exists
set nearbyint d_nearbyint
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nearbyint.U
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?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:24 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.

?S:.
: set the base revision
baserev=<BASEREV>

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/baserev.U
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?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_scalbn: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbn:
?S: This variable conditionally defines the HAS_SCALBN symbol, which
?S: indicates to the C program that the scalbn() routine is available.
?S:.
?C:HAS_SCALBN:
?C: This symbol, if defined, indicates that the scalbn routine is
?C: available to multiply floating-point number by integral power
?C: of radix.
?C:.
?H:#$d_scalbn HAS_SCALBN /**/
?H:.
?LINT:set d_scalbn
: see if scalbn exists
set scalbn d_scalbn
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_scalbn.U
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?RCS:
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.

```
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_ftello HAS_FTELLO  /**/
?H:.
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ftello.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_tgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_tgamma:
?S: This variable conditionally defines the HAS_TGAMMA symbol, which
?S: indicates to the C program that the tgamma() routine is available
?S: for the gamma function.  See also d_lgamma.
?S:.
?C:HAS_TGAMMA:
?C: This symbol, if defined, indicates that the tgamma routine is
?C: available to do the gamma function. See also HAS_LGAMMA.
?C:.
?H:#$d_tgamma HAS_TGAMMA  /**/
?H:.
?LINT:set d_tgamma
: see if tgamma exists
set tgamma d_tgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_tgamma.U
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```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:09 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Nothing.U
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?RCS: $Id: i_sysstatvfs.U,v $
?RCS:
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?RCS:
?MAKE:i_sysstatvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatvfs:
?S: This variable conditionally defines the I_SYSSTATVFS symbol,
?S: and indicates whether a C program should include <sys/statvfs.h>.
?S:.
?C:I_SYS_STATVFS:
?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysstatvfs I_SYS_STATVFS /**/
?H:.
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-

5.30.0/U/perl/i_sysstatvfs.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
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*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: setsid.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:47  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/setsid.C
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```
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?RCS:
?MAKE:d_atanh: Inlibc
?MAKE: -pick add $@ %<
?S:d_atanh:
?S: This variable conditionally defines the HAS_ATANH symbol, which
?S: indicates to the C program that the atanh() routine is available.
?S:.
?C:HAS_ATANH:
?C: This symbol, if defined, indicates that the atanh routine is
?C: available to do the inverse hyperbolic tangent function.
?C:.
?H:#$d_atanh HAS_ATANH  /**/
?H:.
?LINT:set d_atanh
: see if atanh exists
set atanh d_atanh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_atanh.U

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```
/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
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*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:45  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/scandir.C
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```
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?RCS:
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?RCS:
?MAKE:d_socks5_init: Inlibc
?MAKE: -pick add $@ %<
?S:d_socks5_init:
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
?S: indicates to the C program that the socks5_init() routine is available.
?S:.
?C:HAS_SOCKS5_INIT:
?C: This symbol, if defined, indicates that the socks5_init routine is
?C: available to initialize SOCKS 5.
?C:.
?H:#$d_socks5_init HAS_SOCKS5_INIT  /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_socks5_init.U
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```
?RCS: $Id$
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?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_fseeko HAS_FSEEKO  /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fseeko.U
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```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
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?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
```

?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysvfs.U
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?RCS:
?MAKE:d_mkdtemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdtemp:
?S: This variable conditionally defines the HAS_MKDTEMP symbol, which
?S: indicates to the C program that the mkdtemp() routine is available
?S: to exclusively create a uniquely named temporary directory.
?S:.
?C:HAS_MKDTEMP :
?C: This symbol, if defined, indicates that the mkdtemp routine is
?C: available to exclusively create a uniquely named temporary directory.
?C:.
?H:#$d_mkdtemp HAS_MKDTEMP /**/
?H:.
?LINT:set d_mkdtemp
: see if mkdtemp exists
set mkdtemp d_mkdtemp
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_mkdtemp.U
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?RCS:
?MAKE:d_sqrtl: Inlibc
?MAKE: -pick add $@ %<
?S:d_sqrtl:
?S: This variable conditionally defines the HAS_SQRTL symbol, which
?S: indicates to the C program that the sqrtl() routine is available.
?S:.
?C:HAS_SQRTL:
?C: This symbol, if defined, indicates that the sqrtl routine is
?C: available to do long double square roots.
?C:.
?H:#$d_sqrtl HAS_SQRTL /**/
?H:.
?LINT:set d_sqrtl
: see if sqrtl exists
set sqrtl d_sqrtl
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sqrtl.U
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?RCS:
?MAKE:d_acosh: Inlibc
?MAKE: -pick add $@ %<
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which
?S: indicates to the C program that the acosh() routine is available.
?S:.
?C:HAS_ACOSH:
?C: This symbol, if defined, indicates that the acosh routine is
?C: available to do the inverse hyperbolic cosine function.
?C:.
?H:#$d_acosh HAS_ACOSH /**/
?H:.
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_acosh.U
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```
?RCS: $Id: i_libutil.U,v $
?RCS:
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?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL  /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_libutil.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_frexpl: Inlibc
?MAKE: -pick add $@ %<
?S:d_frexpl:
?S: This variable conditionally defines the HAS_FREXPL symbol, which
?S: indicates to the C program that the frexpl() routine is available.
?S:.
```

?C:HAS_FREXPL:
?C: This symbol, if defined, indicates that the frexpl routine is
?C: available to break a long double floating-point number into
?C: a normalized fraction and an integral power of 2.
?C:.
?H:#$d_frexpl HAS_FREXPL /**/
?H:.
?LINT:set d_frexpl
: see if frexpl exists
set frexpl d_frexpl
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_frexpl.U
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?RCS: $Id: i_netdb.U,v $
?RCS:
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?RCS:
?MAKE:i_netdb: Inhdr
?MAKE: -pick add $@ %<
?S:i_netdb:
?S: This variable conditionally defines the I_NETDB symbol, and indicates
?S: whether a C program should include <netdb.h>.
?S:.
?C:I_NETDB:
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
?C:.
?H:#$i_netdb I_NETDB /**/
?H:.
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_netdb.U
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?RCS:
?MAKE:d_lgamma_r: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma_r:
?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which
?S: indicates to the C program that the lgamma_r() routine is available
?S: for the log gamma function, without using the global signgam variable.
?S:.
?C:HAS_LGAMMA_R:
?C: This symbol, if defined, indicates that the lgamma_r routine is
?C: available to do the log gamma function without using the global
?C: signgam variable.
?C:.
?H:#$d_lgamma_r HAS_LGAMMA_R /**/
?H:.
?LINT:set d_lgamma_r
: see if lgamma_r exists
set lgamma_r d_lgamma_r
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lgamma_r.U
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?RCS:
?MAKE:d_localeconv_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_localeconv_l:
?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which
?S: indicates to the C program that the localeconv_l() routine is available.
?S:.
?C:HAS_LOCALECONV_L:
?C: This symbol, if defined, indicates that the localeconv_l routine is
?C: available to query certain information about a locale.

?C:.
?H:#$d_localeconv_l HAS_LOCALECONV_L /**/
?H:.
?LINT:set d_localeconv_l
: see if localeconv_l exists
set localeconv_l d_localeconv_l
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_localeconv_l.U
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?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fchdir.U
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?RCS:
?MAKE:d_nexttoward: Inlibc
?MAKE: -pick add $@ %<
?S:d_nexttoward:

?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()
?S: is available to return the next machine representable long double from
?S: x in direction y.
?S:.
?C:HAS_NEXTTOWARD:
?C: This symbol, if defined, indicates that the nexttoward routine is
?C: available to return the next machine representable long double from
?C: x in direction y.
?C:.
?H:#$d_nexttoward HAS_NEXTTOWARD /**/
?H:.
?LINT:set d_nexttoward
: see if nexttoward exists
set nexttoward d_nexttoward
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nexttoward.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_dup3: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup3:
?S: This variable conditionally defines HAS_DUP3 if dup3() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP3:
?C: This symbol, if defined, indicates that the dup3 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup3 HAS_DUP3 /**/
?H:.
?LINT:set d_dup3
: see if dup3 exists
set dup3 d_dup3
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-

5.30.0/U/perl/d_dup3.U
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?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add $@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#$d_atolf HAS_ATOLF /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atolf.U
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?RCS:
?MAKE:d_round: Inlibc
?MAKE: -pick add $@ %<
?S:d_round:
?S: This variable conditionally defines the HAS_ROUND symbol, which
?S: indicates to the C program that the round() routine is available.
?S:.
?C:HAS_ROUND:
?C: This symbol, if defined, indicates that the round routine is
?C: available to round to nearest integer, away from zero.
?C:.
?H:#$d_round HAS_ROUND /**/
?H:.
?LINT:set d_round

: see if round exists
set round d_round
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_round.U
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?RCS:
?MAKE:i_poll: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, and indicates
?S: whether a C program should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#$i_poll I_POLL /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_poll.U
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?RCS:
?MAKE:d_timegm: Inlibc
?MAKE: -pick add $@ %<
?S:d_timegm:

?S: This variable conditionally defines the HAS_TIMEGM symbol, which
?S: indicates to the C program that the timegm () routine is available.
?S:.
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
?C: available to do the opposite of gmtime ()
?C:.
?H:#$d_timegm HAS_TIMEGM /**/
?H:.
?LINT:set d_timegm
: see if timegm exists
set timegm d_timegm
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_timegm.U
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?RCS:
?MAKE:d_copysignl: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available. If aintl is also present we can emulate modfl.
?C:.
?H:#$d_copysignl HAS_COPYSIGNL /**/
?H:.
?LINT:set d_copysignl
: see if copysignl exists
set copysignl d_copysignl
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysignl.U

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?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add $@ %<
?S:d_lround:
?S: This variable conditionally defines the HAS_LROUND symbol, which
?S: indicates to the C program that the lround() routine is available
?S: to return the integral value nearest to x.
?S:.
?C:HAS_LROUND:
?C: This symbol, if defined, indicates that the lround routine is
?C: available to return the nearest integral value.
?C:.
?H:#$d_lround HAS_LROUND /**/
?H:.
?LINT:set d_lround
: see if lround exists
set lround d_lround
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lround.U
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?RCS:
?MAKE:d_fmin: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmin:
?S: This variable conditionally defines the HAS_FMIN symbol, which
?S: indicates to the C program that the fmin() routine is available.
?S:.
?C:HAS_FMIN:
?C: This symbol, if defined, indicates that the fmin routine is
?C: available to do the minimum function.
?C:.
?H:#$d_fmin HAS_FMIN /**/
?H:.
?LINT:set d_fmin
: see if fmin exists
set fmin d_fmin
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fmin.U
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?RCS:
?MAKE:d_sendmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_sendmsg:
?S: This variable conditionally defines the HAS_SENDMSG symbol, which
?S: indicates to the C program that the sendmsg() routine is available.
?S:.
?C:HAS_SENDMSG:
?C: This symbol, if defined, indicates that the sendmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_sendmsg HAS_SENDMSG  /**/
?H:.
?LINT:set d_sendmsg
: see if sendmsg exists
set sendmsg d_sendmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sendmsg.U
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```
?RCS: $Id: i_sysstatfs.U,v $
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?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
```

?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysstatfs.U
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?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
?H:#$i_sunmath I_SUNMATH /**/
?H:.
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sunmath.U
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?RCS:
?MAKE:d_getmnt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmnt:
?S: This variable conditionally defines the HAS_GETMNT symbol, which
?S: indicates to the C program that the getmnt() routine is available
?S: to retrieve one or more mount info blocks by filename.
?S:.
?C:HAS_GETMNT:
?C: This symbol, if defined, indicates that the getmnt routine is
?C: available to get filesystem mount info by filename.
?C:.
?H:#$d_getmnt HAS_GETMNT /**/
?H:.
?LINT:set d_getmnt
: see if getmnt exists
set getmnt d_getmnt
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getmnt.U
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?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#$d_getaddrinfo HAS_GETADDRINFO /**/
?H:.
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
set getaddrinfo d_getaddrinfo

eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getaddrinfo.U
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?RCS:
?MAKE:d_fpgetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpgetround:
?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()
?S: is available to get the floating point rounding mode.
?S:.
?C:HAS_FPGETROUND:
?C: This symbol, if defined, indicates that the fpgetround routine is
?C: available to get the floating point rounding mode.
?C:.
?H:#$d_fpgetround HAS_FPGETROUND /**/
?H:.
?LINT:set d_fpgetround
: see if fpgetround exists
set fpgetround d_fpgetround
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fpgetround.U
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?RCS:
?MAKE:i_stdint: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
?S:.
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and
?C: should be included.
?C:.
?H:#$i_stdint I_STDINT /**/
?H:.

?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_stdint.U
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?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
?C:.
?H:#$d_unsetenv HAS_UNSETENV /**/
?H:.
?LINT:set d_unsetenv
: see if unsetenv exists
set unsetenv d_unsetenv
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unsetenv.U
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?RCS:
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add $@ %<

?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_fstatfs HAS_FSTATFS /**/
?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fstatfs.U
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?RCS:
?MAKE:d_llrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrint:
?S: This variable conditionally defines the HAS_LLRINT symbol, which
?S: indicates to the C program that the llrint() routine is available
?S: to return the long long value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINT:
?C: This symbol, if defined, indicates that the llrint routine is
?C: available to return the long long value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrint HAS_LLRINT /**/
?H:.
?LINT:set d_llrint
: see if llrint exists
set llrint d_llrint
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llrint.U
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```
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?RCS:
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
?S: and indicates whether a C program should include <sys/mount.h>.
?S:.
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmount I_SYS_MOUNT  /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmount.U
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```
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?RCS:
?MAKE:d_lgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma:
?S: This variable conditionally defines the HAS_LGAMMA symbol, which
?S: indicates to the C program that the lgamma() routine is available
?S: for the log gamma function.  See also d_tgamma and d_lgamma_r.
?S:.
?C:HAS_LGAMMA:
?C: This symbol, if defined, indicates that the lgamma routine is
?C: available to do the log gamma function.  See also HAS_TGAMMA and
?C: HAS_LGAMMA_R.
?C:.
?H:#$d_lgamma HAS_LGAMMA  /**/
?H:.
?LINT:set d_lgamma
: see if lgamma exists
```

```
set lgamma d_lgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lgamma.U
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```
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?RCS:
?MAKE:d_fsync: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsync:
?S: This variable conditionally defines the HAS_FSYNC symbol, which
?S: indicates to the C program that the fsync() routine is available.
?S:.
?C:HAS_FSYNC:
?C: This symbol, if defined, indicates that the fsync routine is
?C: available to write a file's modified data and attributes to
?C: permanent storage.
?C:.
?H:#$d_fsync HAS_FSYNC  /**/
?H:.
?LINT:set d_fsync
: see if fsync exists
set fsync d_fsync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fsync.U
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```
?RCS: $Id: i_crypt.U,v $
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?RCS:
?MAKE:i_crypt: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_crypt:
```

?S: This variable conditionally defines the I_CRYPT symbol, and indicates
?S: whether a C program should include <crypt.h>.
?S:.
?C:I_CRYPT:
?C: This symbol, if defined, indicates that <crypt.h> exists and
?C: should be included.
?C:.
?H:#$i_crypt I_CRYPT /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
set crypt.h i_crypt
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_crypt.U
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?RCS:
?MAKE:d_hasmntopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_hasmntopt:
?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which
?S: indicates to the C program that the hasmntopt() routine is available
?S: to query the mount options of file systems.
?S:.
?C:HAS_HASMNTOPT:
?C: This symbol, if defined, indicates that the hasmntopt routine is
?C: available to query the mount options of file systems.
?C:.
?H:#$d_hasmntopt HAS_HASMNTOPT /**/
?H:.
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_hasmntopt.U

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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_recvmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_recvmsg:
?S: This variable conditionally defines the HAS_RECVMSG symbol, which
?S: indicates to the C program that the recvmsg() routine is available.
?S:.
?C:HAS_RECVMSG:
?C: This symbol, if defined, indicates that the recvmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_recvmsg HAS_RECVMSG /**/
?H:.
?LINT:set d_recvmsg
: see if recvmsg exists
set recvmsg d_recvmsg
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_recvmsg.U
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped. Use randfunc instead.
?X:
?LINT:empty

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/compline/randbits.U

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```
?RCS: $Id: i_ieeefp.U,v $
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeefp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeefp:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieeefp.h>.
?S:.
?C:I_IEEEFP:
?C: This symbol, if defined, indicates that <ieeefp.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeefp I_IEEEFP  /**/
?H:.
?LINT:set i_ieeefp
: see if this is a ieeefp.h system
case "$i_ieeefp" in
" ) set ieeefp.h i_ieeefp
   eval $inhdr
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_ieeefp.U
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```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_atoll:
?S: This variable conditionally defines the HAS_ATOLL symbol, which
?S: indicates to the C program that the atoll() routine is available.
?S:.
?C:HAS_ATOLL:
```

?C: This symbol, if defined, indicates that the atoll routine is
?C: available to convert strings into long longs.
?C:.
?H:#$d_atoll HAS_ATOLL /**/
?H:.
?LINT:set d_atoll
: see if atoll exists
set atoll d_atoll
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atoll.U
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add $@ %<
?S:d_setproctitle:
?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
?S:.
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
?C: available to set process title.
?C:.
?H:#$d_setproctitle HAS_SETPROCTITLE /**/
?H:.
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setproctitle.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_fp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp: Inhdr
?MAKE: -pick add $@ %<
?S:i_fp:
?S: This variable conditionally defines the I_FP symbol, and indicates
?S: whether a C program should include <fp.h>.
?S:.
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
?C:.
?H:#$i_fp I_FP  /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fp.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:42  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/rename.C
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```
?RCS: $Id: i_ustat.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#$i_ustat I_USTAT  /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_ustat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_clearenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_clearenv:
?S: This variable conditionally defines the HAS_CLEARENV symbol, which
?S: indicates to the C program that the clearenv () routine is available.
?S:.
?C:HAS_CLEARENV:
?C: This symbol, if defined, indicates that the clearenv () routine is
?C: available for use.
?C:.
?H:#$d_clearenv HAS_CLEARENV  /**/
?H:.
```

?LINT:set d_clearenv
: see if clearenv exists
set clearenv d_clearenv
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_clearenv.U
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?RCS:
?MAKE:d_inetpton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetpton:
?S: This variable conditionally defines the HAS_INETPTON symbol,
?S: which indicates to the C program that the inet_pton() function
?S: is available.
?S:.
?C:HAS_INETPTON:
?C: This symbol, if defined, indicates that the inet_pton() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetpton HAS_INETPTON /**/
?H:.
?LINT:set d_inetpton
: see if inet_pton exists
set inet_pton d_inetpton
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_inetpton.U
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?RCS:
?MAKE:d_fmax: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmax:
?S: This variable conditionally defines the HAS_FMAX symbol, which
?S: indicates to the C program that the fmax() routine is available.

?S:.
?C:HAS_FMAX:
?C: This symbol, if defined, indicates that the fmax routine is
?C: available to do the maximum function.
?C:.
?H:#$d_fmax HAS_FMAX /**/
?H:.
?LINT:set d_fmax
: see if fmax exists
set fmax d_fmax
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fmax.U
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?RCS:
?MAKE:d_accessx: Inlibc
?MAKE: -pick add $@ %<
?S:d_accessx:
?S: This variable conditionally defines the HAS_ACCESSX symbol, which
?S: indicates to the C program that the accessx() routine is available.
?S:.
?C:HAS_ACCESSX :
?C: This symbol, if defined, indicates that the accessx routine is
?C: available to do extended access checks.
?C:.
?H:#$d_accessx HAS_ACCESSX /**/
?H:.
?LINT:set d_accessx
: see if accessx exists
set accessx d_accessx
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_accessx.U
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?RCS:
?MAKE:d_setitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_setitimer:
?S: This variable conditionally defines the HAS_SETITIMER symbol, which
?S: indicates to the C program that the setitimer() routine is available.
?S:.
?C:HAS_SETITIMER:
?C: This symbol, if defined, indicates that the setitimer routine is
?C: available to set interval timers.
?C:.
?H:#$d_setitimer HAS_SETITIMER /**/
?H:.
?LINT:set d_setitimer
: see if setitimer exists
set setitimer d_setitimer
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setitimer.U
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?RCS:
?MAKE:d_remquo: Inlibc
?MAKE: -pick add $@ %<
?S:d_remquo:
?S: This variable conditionally defines the HAS_REMQUO symbol, which
?S: indicates to the C program that the remquo() routine is available.
?S:.
?C:HAS_REMQUO:
?C: This symbol, if defined, indicates that the remquo routine is
?C: available to return the remainder and part of quotient.
?C:.
?H:#$d_remquo HAS_REMQUO /**/
?H:.
?LINT:set d_remquo
: see if remquo exists
set remquo d_remquo
eval $inlibc

Found in path(s):

* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remquo.U
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?RCS:
?MAKE:d_lrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrintl:
?S: This variable conditionally defines the HAS_LRINTL symbol, which
?S: indicates to the C program that the lrintl() routine is available
?S: to return the integral value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINTL:
?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrintl HAS_LRINTL /**/
?H:.
?LINT:set d_lrintl
: see if lrintl exists
set lrintl d_lrintl
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lrintl.U
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?RCS:
?MAKE:d_fdclose: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdclose:
?S: This variable conditionally defines the HAS_FDCLOSE symbol, which
?S: indicates to the C program that the fdclose() routine is available.
?S:.
?C:HAS_FDCLOSE:
?C: This symbol, if defined, indicates that the fdclose routine is
?C: available to free a FILE structure without closing the underlying
?C: file descriptor. This function appeared in FreeBSD 10.2.
?C:.
?H:#$d_fdclose HAS_FDCLOSE /**/
?H:.

?LINT:set d_fdclose
: see if fdclose exists
set fdclose d_fdclose
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdclose.U
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?RCS:
?MAKE:d_hypot: Inlibc
?MAKE: -pick add $@ %<
?S:d_hypot:
?S: This variable conditionally defines HAS_HYPOT if hypot is available
?S: for numerically stable hypotenuse function.
?S:.
?C:HAS_HYPOT:
?C: This symbol, if defined, indicates that the hypot routine is
?C: available to do the hypotenuse function.
?C:.
?H:#$d_hypot HAS_HYPOT /**/
?H:.
?LINT:set d_hypot
: see if hypot exists
set hypot d_hypot
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_hypot.U
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?RCS: $Id: i_fp_class.U,v $
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?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.

?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fp_class.U
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?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_fenv: Inhdr
?MAKE: -pick add $@ %<
?S:i_fenv:
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
?S: be included.
?S:.
?C:I_FENV:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <fenv.h> to get the floating point environment definitions.
?C:.
?H:#$i_fenv I_FENV /**/
?H:.
?LINT:set i_fenv
: see if this is a fenv.h system
set fenv.h i_fenv
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fenv.U
No license file was found, but licenses were detected in source scan.

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?RCS:
?MAKE:d_ualarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
?S: indicates to the C program that the ualarm() routine is available.
?S:.
?C:HAS_UALARM:
?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
?C:.
?H:#$d_ualarm HAS_UALARM /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
set ualarm d_ualarm
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ualarm.U
No license file was found, but licenses were detected in source scan.

/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:37 ram
* patch16: created
*
*/

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/dup2.C
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_mntent.U,v $

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT  /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
set mntent.h i_mntent
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_mntent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_log2: Inlibc
?MAKE: -pick add $@ %<
?S:d_log2:
?S: This variable conditionally defines the HAS_LOG2 symbol, which
?S: indicates to the C program that the log2() routine is available
?S: to compute log base two.
?S:.
?C:HAS_LOG2:
?C: This symbol, if defined, indicates that the log2 routine is
?C: available to do the log2 function.
?C:.
?H:#$d_log2 HAS_LOG2  /**/
?H:.
?LINT:set d_log2
: see if log2 exists
set log2 d_log2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
?C: available to check the length of a string up to a maximum.
?C:.
?H:#$d_strnlen HAS_STRNLEN  /**/
?H:.
?LINT:set d_strnlen
: see if strnlen exists
set strnlen d_strnlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strnlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_eaccess: Inlibc
?MAKE: -pick add $@ %<
?S:d_eaccess:
?S: This variable conditionally defines the HAS_EACCESS symbol, which
?S: indicates to the C program that the eaccess() routine is available.
?S:.
```

?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#$d_eaccess HAS_EACCESS /**/
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_eaccess.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_sysuio.U,v $
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysuio:
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
?C: should be included.
?C:.
?H:#$i_sysuio I_SYSUIO /**/
?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_sysuio.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towupper: Inlibc
?MAKE: -pick add $@ %<
?S:d_towupper:
?S: This variable conditionally defines the HAS_TOWUPPER symbol, which
?S: indicates to the C program that the towupper() routine is available.
?S:.
?C:HAS_TOWUPPER:
?C: This symbol, if defined, indicates that the towupper () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towupper HAS_TOWUPPER  /**/
?H:.
?LINT:set d_towupper
: see if towupper exists
set towupper d_towupper
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_towupper.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_expm1: Inlibc
?MAKE: -pick add $@ %<
?S:d_expm1:
?S: This variable conditionally defines the HAS_EXPM1 symbol, which
?S: indicates to the C program that the expm1() routine is available.
?S:.
?C:HAS_EXPM1:
?C: This symbol, if defined, indicates that the expm1 routine is
?C: available to do the exp(x) - 1 when x is near 1 function.
?C:.
?H:#$d_expm1 HAS_EXPM1  /**/
?H:.
?LINT:set d_expm1
: see if expm1 exists
set expm1 d_expm1
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-

5.30.0/U/perl/d_expm1.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbnl: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available. If ilogbl is also present we can emulate frexpl.
?C:.
?H:#$d_scalbnl HAS_SCALBNL /**/
?H:.
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_scalbnl.U
No license file was found, but licenses were detected in source scan.

* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/metaconfig.html
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getitimer: Inlibc

?MAKE: -pick add $@ %<
?S:d_getitimer:
?S: This variable conditionally defines the HAS_GETITIMER symbol, which
?S: indicates to the C program that the getitimer() routine is available.
?S:.
?C:HAS_GETITIMER:
?C: This symbol, if defined, indicates that the getitimer routine is
?C: available to return interval timers.
?C:.
?H:#$d_getitimer HAS_GETITIMER /**/
?H:.
?LINT:set d_getitimer
: see if getitimer exists
set getitimer d_getitimer
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getitimer.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_quadmath: Inhdr
?MAKE: -pick add $@ %<
?S:i_quadmath:
?S: This variable conditionally defines I_QUADMATH, which indicates
?S: to the C program that it should include <quadmath.h>.
?S:.
?C:I_QUADMATH:
?C: This symbol, if defined, indicates that <quadmath.h> exists and
?C: should be included.
?C:.
?H:#$i_quadmath I_QUADMATH /**/
?H:.
?LINT:set i_quadmath
: see if this is a quadmath.h system
set quadmath.h i_quadmath
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_quadmath.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_poll.U,v $
?RCS:

```
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?RCS:
?MAKE:i_langinfo: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_langinfo:
?S: This variable conditionally defines the I_LANGINFO symbol,
?S: and indicates whether a C program should include <langinfo.h>.
?S:.
?C:I_LANGINFO:
?C: This symbol, if defined, indicates that <langinfo.h> exists and
?C: should be included.
?C:.
?H:#$i_langinfo I_LANGINFO  /**/
?H:.
?LINT:set i_langinfo
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_langinfo.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?MAKE:d_fp_classl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_classl:
?S: This variable conditionally defines the HAS_FP_CLASSL symbol, which
?S: indicates to the C program that the fp_classl() routine is available.
?S:.
?C:HAS_FP_CLASSL:
?C: This symbol, if defined, indicates that the fp_classl routine is
?C: available to classify long doubles.  Available for example in
?C: Digital UNIX.  See for possible values HAS_FP_CLASS.
?C:.
?H:#$d_fp_classl HAS_FP_CLASSL  /**/
?H:.
?LINT:set d_fp_classl
```

: see if fp_classl exists
set fp_classl d_fp_classl
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fp_classl.U
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?RCS:
?MAKE:d_nan: Inlibc
?MAKE: -pick add $@ %<
?S:d_nan:
?S: This variable conditionally defines HAS_NAN if nan() is
?S: available to generate NaN.
?S:.
?C:HAS_NAN:
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
?C:.
?H:#$d_nan HAS_NAN /**/
?H:.
?LINT:set d_nan
: see if nan exists
set nan d_nan
eval $inlibc

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nan.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_shadow.U,v $
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_prot: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_prot:
?S: This variable conditionally defines the I_PROT symbol, and indicates
?S: whether a C program should include <prot.h>.
?S:.
?C:I_PROT:

?C: This symbol, if defined, indicates that <prot.h> exists and
?C: should be included.
?C:.
?H:#$i_prot I_PROT /**/
?H:.
?LINT:set i_prot
: see if this is a prot.h system
set prot.h i_prot
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_prot.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_sysutsname.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysutsname: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysutsname:
?S: This variable conditionally defines the I_SYSUTSNAME symbol,
?S: and indicates whether a C program should include <sys/utsname.h>.
?S:.
?C:I_SYSUTSNAME:
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
?C: should be included.
?C:.
?H:#$i_sysutsname I_SYSUTSNAME /**/
?H:.
?LINT:set i_sysutsname
: see if this is a sys/utsname.h system
set sys/utsname.h i_sysutsname
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysutsname.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_sysmode.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmode.U
No license file was found, but licenses were detected in source scan.

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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'. This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
'') full_ar=$ar ;;
esac

Found in path(s):
* /opt/cola/permits/1705628988_1687398350.718496/0/perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/Loc_ar.U

1.122 perl 5.30.0-9ubuntu0.4

1.122.1 Available under license :

The "Artistic License"

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A Package
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b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict
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differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

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executable form, provided that you do at least ONE of the following:

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together with instructions (in the manual page or equivalent) on where
to get the Standard Version.

b) accompany the distribution with the machine-readable source of
the Package with your modifications.

c) give non-standard executables non-standard names, and clearly
document the differences in manual pages (or equivalent), together
with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

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7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

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The End

Perl5 Metaconfig Units

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These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README
This file.

Glossary.patch
The standard dist units contain some strings that make pod2man
complain. This patch silences those warnings. As new units are
added and Configure is regenerated, this patch may need more and more
'fuzz' to be applied. It should be freshly regenerated every once
in a while. See also mkgloss.pl

ln-all.pl
Re-generate the all/ folder

mkglossary
A script to regenerate Porting/Glossary. You have to manually
edit
the top of the script to point the location of your metaconfig
units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
A perl script that calls U/mkglossary from the perl source tree, sorts
the list of symbols, and applies the patch mentioned in Glossary.patch.
When called on its own, redirect the output to a temporary file, and
compare that file to Porting/Glossary before applying.

mksample
A script to regenerate Porting/config.sh and Porting/config.H.
It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following
directories.

a_dvisory/
  These are units that have to go first in the generated config_h.SH.
  A word of explanation: Configure and config_h.SH are generated from 'Units'
  (the *.U files). Files indicate dependencies (using make(1)), and
  Configure is built to follow those dependencies. However, config_h.SH
  is simply built by putting
 all the units in alphabetical order and
  extracting the relevant lines. (This could be fixed, I suppose, but
  it wasn't trivial the one time I looked.)
  The a_dvisory/ directory, then, is a place to put units that need
  to be early in config_h.SH. (Most units are self-contained
  and ought to be able to go anywhere. However, some things, like
  byteorder, need to have the #defines from multiarch available.)

acl/
  This is an old patch to begin to detect and use ACL (access
  control list) file protection schemes.

all/
  A folder that conveniently holds symbolic links to all the modules
  that are used to build the current Configure and config_h.SH.

compline/
  These are similar to the standard units, but I have modified them
  to have a more uniform compile command line, usually using the
  new Compile.U unit. (The ccflags.U unit is perl-specific since it
  mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place
  it is perl-specific.)

dist_patches/
   These are patches to dist that must be applied before it is built
  and installed. I have submitted these for inclusion in the
  regular dist distribution. They have already been applied
  to the ../dist-3.0at70b directory.

ebcdic/
  These are units that had to be specially modified to work under
  either EBCDIC or ASCII.

installdirs/
  These are units to handle perl's installation directories and
  related issues.

modified/

These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

nullified/
These are null units that replace units in the standard distribution. Typically they are there because some part of the perl source accidentally uses a symbol that metaconfig thinks means we want the corresponding unit.

perl/
These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes.

threads/
These are specific to threading perl.

typedefs/
These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typdef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for *me* to actively maintain it, the units just sit here.

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possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

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

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

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the Free Software Foundation; either version 2 of the License, or
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Also add information on how to contact you by electronic and paper mail.

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

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

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

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

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

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

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Version 3, 29 June 2007

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An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

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

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

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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"keep intact all notices".

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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,
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"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
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in an aggregate does not cause this License to apply to the other
parts of the aggregate.

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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:

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.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
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charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

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keys, or other information required to install
and execute modified versions of a covered work in that User Product from
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code is in no case prevented or interfered with solely because
modification has been made.

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User Product is transferred to the recipient in perpetuity or for a
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by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
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ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

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1.129 libnss-nisplus 2.31

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1.130 libsystemd 245.4-4ubuntu3.22

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1.133 gmp 6.2.0+dfsg-4ubuntu0.1

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1.134 ncurses 6.2-0ubuntu2.1

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1.135 openssl 1.1.1v

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Changes:
  * Renamed files from civil* to localtime*.
  * Package changed from civil to toml.
  * 'Local' prefix added to all structs.
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1.140 spf13-pflag v1.0.5

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1.144 go-toml 1.9.4

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.145 libssl 1.1.1f-1ubuntu2.20

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The End

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1.149 libprocps 2:3.3.16-1ubuntu2.4

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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
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which the executable
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1.151 gnutls 3.6.13-2ubuntu1.9

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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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When a "work that uses the Library" uses material from a header file
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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

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

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version 0.1
##
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written offer, valid for at least three years and valid
for as
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model, to give anyone who possesses the object code either (1) a
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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
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written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same
way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source

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available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
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keys, or other information required to install
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1.152 gopkg.in-yaml 2.4.0

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1.153 file 1:5.38-4

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1.154 goprotobuf 1.5.2

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Protocol Buffers for Go with Gadgets

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1.162 libapt-pkg 2.0.10

1.162.1 Available under license :

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Desired=Unknown/Install/Remove/Purge/Hold
| Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend
|/ Err?=(none)/Reinst-required (Status,Err: uppercase=bad)
||/ Name Version Architecture Description
+++-==========-==========-==========-
==========-==========-==========-
==========
ii a11y-profile-manager-indicator 0.1.10-0ubuntu3 amd64 Accessibility
Profile Manager - Unity desktop indicator
ii account-plugin-facebook 0.12+16.04.20160126-0ubuntu1 all GNOME
Control Center account plugin for single signon - facebook
ii account-plugin-flickr

0.12+16.04.20160126-0ubuntu1 all GNOME Control Center account plugin for single signon - flickr
ii account-plugin-google 0.12+16.04.20160126-0ubuntu1 all GNOME Control Center account plugin for single signon
ii accountsservice 0.6.40-2ubuntu11.3 amd64 query and manipulate user account information
ii acl 2.2.52-3 amd64 Access control list utilities
ii acpi-support 0.142 amd64 scripts for handling many ACPI events
ii acpid 1:2.0.26-1ubuntu2 amd64 Advanced Configuration and Power Interface event daemon
ii activity-log-manager 0.9.7-0ubuntu23 amd64 blacklist configuration user interface for Zeitgeist
ii adduser 3.113+nmu3ubuntu4 all add and remove users and groups
ii adium-theme-ubuntu 0.3.4-0ubuntu1.1 all Adium message style for Ubuntu
ii adwaita-icon-theme 3.18.0-2ubuntu3.1 all default icon theme of GNOME (small subset)
ii aisleriot 1:3.18.2-1ubuntu1 amd64 GNOME solitaire card game collection
ii alsa-base 1.0.25+dfsg-0ubuntu5 all ALSA driver configuration files
ii alsa-utils 1.1.0-0ubuntu5 amd64 Utilities for configuring and using ALSA
ii anacron 2.3-23 amd64 cron-like program that doesn't go by time
ii ant 1.9.6-1ubuntu1 all Java based build tool like make
ii ant-optional 1.9.6-1ubuntu1 all Java based build tool like make - optional libraries
ii apg 2.2.3.dfsg.1-2ubuntu1 amd64 Automated Password Generator - Standalone version
ii app-install-data 15.10 all Ubuntu applications (data files)
ii app-install-data-partner 16.04 all Application Installer (data files for partner applications/repositories)
ii apparmor 2.10.95-0ubuntu2.5 amd64 user-space parser utility for AppArmor
ii appmenu-qt:amd64 0.2.7+14.04.20140305-0ubuntu2 amd64 application menu for Qt
ii appmenu-qt5 0.3.0+16.04.20151130-0ubuntu1 amd64 application menu for Qt5
ii apport 2.20.1-0ubuntu2.5 all automatically generate crash reports for debugging
ii apport-gtk 2.20.1-0ubuntu2.5 all GTK+ frontend for the apport crash report system
ii apport-symptoms 0.20

all symptom scripts for apport
ii appstream 0.9.4-1ubuntu2 amd64 Software component index
ii apt 1.2.18 amd64 commandline package manager
ii apt-transport-https 1.2.18 amd64 https download transport for APT
ii apt-utils 1.2.18 amd64 package management related utility programs
ii aptdaemon 1.1.1+bzr982-0ubuntu14 all transaction based package management service
ii aptdaemon-data 1.1.1+bzr982-0ubuntu14 all data files for clients
ii apturl 0.5.2ubuntu11.1 amd64 install packages using the apt protocol - GTK+ frontend
ii apturl-common 0.5.2ubuntu11.1 amd64 install packages using the apt protocol - common data
ii aspell 0.60.7~20110707-3build1 amd64 GNU Aspell spell-checker
ii aspell-en 7.1-0-1.1 all English dictionary for GNU Aspell
ii asymptote 2.37-1 amd64 script-based vector graphics language inspired by MetaPost
ii asymptote-doc 2.37-1 all documentation and examples for asymptote
ii at-spi2-core 2.18.3-4ubuntu1 amd64 Assistive Technology Service Provider Interface (dbus core)
ii atom 1.8.0 amd64 A hackable text editor for the 21st Century.
ii autotools-dev 20150820.1 all Update infrastructure for config.{guess,sub} files
ii avahi-autoipd 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi IPv4LL network address configuration daemon
ii avahi-daemon 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi mDNS/DNS-SD daemon
ii avahi-utils 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi browsing, publishing and discovery utilities
ii bamfdaemon 0.5.3~bzr0+16.04.20160824-0ubuntu1 amd64 Window matching library - daemon
ii baobab 3.18.1-1ubuntu1 amd64 GNOME disk usage analyzer
ii base-files 9.4ubuntu4.3 amd64 Debian base system miscellaneous files
ii base-passwd 3.5.39 amd64 Debian base system master password and group files
ii bash 4.3-14ubuntu1.1 amd64 GNU Bourne Again SHell
ii bash-completion 1:2.1-4.2ubuntu1.1 all programmable completion for the bash shell
ii

bc 1.06.95-9build1 amd64 GNU bc arbitrary precision calculator language
ii bind9-host 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 Version of 'host' bundled with BIND 9.X
ii binfmt-support 2.1.6-1 amd64 Support for extra binary formats
ii binutils 2.26.1-1ubuntu1~16.04.3 amd64 GNU assembler, linker and binary utilities
ii bison 2:3.0.4.dfsg-1 amd64 YACC-compatible parser generator
ii blt 2.5.3+dfsg-3 amd64 graphics extension library for Tcl/Tk - run-time
ii bluez 5.37-0ubuntu5 amd64 Bluetooth tools and daemons
ii bluez-cups 5.37-0ubuntu5 amd64 Bluetooth printer driver for CUPS
ii bluez-obexd 5.37-0ubuntu5 amd64 bluez obex daemon
ii brackets 1.8.0libgcrypt11-17108+1~webupd8~0 amd64 Brackets
ii branding-ubuntu 0.8 all Replacement artwork with Ubuntu branding
ii brltty 5.3.1-2ubuntu2.1 amd64 Access software for a blind person using a braille display
ii bsdmainutils 9.0.6ubuntu3 amd64 collection of more utilities from FreeBSD
ii bsdutils 1:2.27.1-6ubuntu3.2 amd64 basic utilities from 4.4BSD-Lite
ii build-essential 12.1ubuntu2 amd64 Informational list of build-essential packages
ii busybox-initramfs 1:1.22.0-15ubuntu1 amd64 Standalone shell setup for initramfs
ii busybox-static 1:1.22.0-15ubuntu1 amd64 Standalone rescue shell with tons of builtin utilities
ii byacc 20140715-1 amd64 public domain Berkeley LALR Yacc parser generator
ii bzip2 1.0.6-8 amd64 high-quality block-sorting file compressor - utilities
ii ca-certificates 20160104ubuntu1 all Common CA certificates
ii ca-certificates-mono 4.2.1.102+dfsg2-7ubuntu4 all Common CA certificates (Mono keystore)
ii ccache 3.2.4-1 amd64 Compiler cache for fast recompilation of C/C++ code
ii checkbox-converged 1.2.4-0ubuntu1 all testing tool for all Ubuntu devices
ii checkbox-gui 1.2.4-0ubuntu1 all QML based interface for checkbox (transitional package)
ii checkinstall 1.6.2-4ubuntu1 amd64 installation tracker
ii cheese 3.18.1-2ubuntu3 amd64 tool to take pictures and

videos from your webcam
ii cheese-common 3.18.1-2ubuntu3 all Common files for the Cheese tool to take pictures and videos
ii chromium-codecs-ffmpeg-extra 55.0.2883.87-0ubuntu0.16.04.1263 amd64 Extra ffmpeg codecs for the Chromium Browser
ii clang 1:3.8-33ubuntu3.1 amd64 C, C++ and Objective-C compiler (LLVM based)
ii clang-3.8 1:3.8-2ubuntu4 amd64 C, C++ and Objective-C compiler (LLVM based)
ii cli-common 0.9+nmu1 all common files between all CLI packages
ii cli-common-dev 0.9+nmu1 all common files for building CLI packages
ii cmake 3.5.1-1ubuntu3 amd64 cross-platform, open-source make system
ii cmake-curses-gui 3.5.1-1ubuntu3 amd64 curses based user interface for CMake (ccmake)
ii cmake-data 3.5.1-1ubuntu3 all CMake data files (modules, templates and documentation)
ii colord 1.2.12-1ubuntu1 amd64 system service to manage device colour profiles -- system daemon
ii colord-data 1.2.12-1ubuntu1 all system service to manage device colour profiles -- data files
ii command-not-found 0.3ubuntu16.04.2 all Suggest installation of packages in interactive bash sessions
ii command-not-found-data 0.3ubuntu16.04.2 amd64 Set of data files for command-not-found.
ii compiz 1:0.9.12.2+16.04.20160823-0ubuntu1 all OpenGL window and compositing manager
ii compiz-core 1:0.9.12.2+16.04.20160823-0ubuntu1 amd64 OpenGL window and compositing manager
ii compiz-gnome 1:0.9.12.2+16.04.20160823-0ubuntu1 amd64 OpenGL window and compositing manager - GNOME window decorator
ii compiz-plugins-default:amd64 1:0.9.12.2+16.04.20160823-0ubuntu1 amd64 OpenGL window and compositing manager - default plugins
ii compizconfig-settings-manager 1:0.9.12.2+16.04.20160823-0ubuntu1 all Compiz configuration settings manager
ii console-setup 1.108ubuntu15.2 all console font and keymap setup program
ii console-setup-linux 1.108ubuntu15.2 all Linux specific part of console-setup
ii coreutils 8.25-2ubuntu2 amd64 GNU core utilities
ii cpio 2.11+dfsg-5ubuntu1 amd64 GNU cpio -- a program to manage archives of files
ii cpp 4:5.3.1-1ubuntu1 amd64 GNU C preprocessor (cpp)
ii cpp-4.9 4.9.3-13ubuntu2 amd64 GNU C preprocessor

ii cpp-5 5.4.0-6ubuntu1~16.04.4 amd64 GNU C preprocessor
ii cracklib-runtime 2.9.2-1build2 amd64 runtime support for password checker library cracklib2
ii crda 3.13-1 amd64 wireless Central Regulatory Domain Agent
ii cron 3.0pl1-128ubuntu2 amd64 process scheduling daemon
ii cryptsetup 2:1.6.6-5ubuntu2 amd64
disk encryption support - startup scripts
ii cryptsetup-bin 2:1.6.6-5ubuntu2 amd64 disk encryption support - command line tools
ii cups 2.1.3-4 amd64 Common UNIX Printing System(tm) - PPD/driver support, web interface
ii cups-backend-bjnp 2.0-0ubuntu2 amd64 printer backend for Canon BJNP protocol
ii cups-browsed 1.8.3-2ubuntu3.1 amd64 OpenPrinting CUPS Filters - cups-browsed
ii cups-bsd 2.1.3-4 amd64 Common UNIX Printing System(tm) - BSD commands
ii cups-client 2.1.3-4
amd64 Common UNIX Printing System(tm) - client programs (SysV)
ii cups-common 2.1.3-4 all Common UNIX Printing System(tm) - common files
ii cups-core-drivers 2.1.3-4 amd64 Common UNIX Printing System(tm) - PPD-less printing
ii cups-daemon 2.1.3-4 amd64 Common UNIX Printing System(tm) - daemon
ii cups-filters 1.8.3-2ubuntu3.1 amd64 OpenPrinting CUPS Filters - Main Package
ii cups-filters-core-drivers 1.8.3-2ubuntu3.1 amd64 OpenPrinting CUPS Filters - PPD-less printing
ii cups-pk-helper 0.2.5-2ubuntu2
amd64 PolicyKit helper to configure cups with fine-grained privileges
ii cups-ppdc 2.1.3-4 amd64 Common UNIX Printing System(tm) - PPD manipulation utilities
ii cups-server-common 2.1.3-4 all Common UNIX Printing System(tm) - server common files
ii curl 7.47.0-1ubuntu2.2 amd64 command line tool for transferring data with URL syntax
ii dash 0.5.8-2.1ubuntu2 amd64 POSIX-compliant shell
ii dbus 1.10.6-1ubuntu3.3 amd64 simple interprocess messaging system (daemon and utilities)
ii dbus-x11
1.10.6-1ubuntu3.3 amd64 simple interprocess messaging system (X11 deps)
ii dc 1.06.95-9build1 amd64 GNU dc arbitrary precision reverse-polish calculator
ii dconf-cli 0.24.0-2 amd64 simple configuration storage

system - utilities
ii dconf-gsettings-backend:amd64 0.24.0-2 amd64 simple configuration storage system - GSettings back-end
ii dconf-gsettings-backend:i386 0.24.0-2 i386 simple configuration storage system - GSettings back-end
ii dconf-service 0.24.0-2 amd64 simple configuration storage system - D-Bus service
ii debconf 1.5.58ubuntu1 all Debian configuration management system
ii debconf-i18n 1.5.58ubuntu1 all full internationalization support for debconf
ii debhelper 9.20160115ubuntu3 all helper programs for debian/rules
ii debianutils 4.7 amd64 Miscellaneous utilities specific to Debian
ii deja-dup 34.2-0ubuntu1.1 amd64 Back up your files
ii deja-dup-backend-gvfs 34.2-0ubuntu1.1 all Remote server support for Déjà Dup
ii desktop-file-utils 0.22-1ubuntu5 amd64 Utilities for .desktop files
ii dh-python 2.20151103ubuntu1.1 all Debian helper tools for packaging Python libraries and applications
ii dh-strip-nondeterminism 0.015-1 all debhelper add-on to strip non-determinism from files
ii dictionaries-common 1.26.3 all spelling dictionaries - common utilities
ii diffstat 1.61-1 amd64 produces graph of changes introduced by a diff file
ii diffutils 1:3.3-3 amd64 File comparison utilities
ii dirmngr 2.1.11-6ubuntu2 amd64 server for managing certificate revocation lists
ii distro-info-data 0.28ubuntu0.2 all information about the distributions' releases (data files)
ii dmidecode 3.0-2ubuntu0.1 amd64 SMBIOS/DMI table decoder
ii dmsetup 2:1.02.110-1ubuntu10 amd64 Linux Kernel Device Mapper userspace library
ii dmz-cursor-theme 0.4.4ubuntu1 all Style neutral, scalable cursor theme
ii dns-root-data 2015052300+h+1 all DNS root data including root zone and DNSSEC key
ii dnsmasq-base 2.75-1ubuntu0.16.04.1 amd64 Small caching DNS proxy and DHCP/TFTP server
ii dnsutils 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 Clients provided with BIND
ii doc-base 0.10.7 all utilities to manage online

documentation
ii docutils-common 0.12+dfsg-1 all text processing system for reStructuredText - common data
ii docutils-doc 0.12+dfsg-1 all text processing system for reStructuredText - documentation
ii dosfstools 3.0.28-2ubuntu0.1 amd64 utilities for making and checking MS-DOS FAT filesystems
ii dpkg 1.18.4ubuntu1.1 amd64 Debian package management system
ii dpkg-dev 1.18.4ubuntu1.1 all Debian package development tools
ii dropbox 2015.10.28 amd64 cloud synchronization engine - CLI and Nautilus extension
ii duplicity 0.7.06-2ubuntu2 amd64 encrypted bandwidth-efficient backup
ii e2fslibs:amd64 1.42.13-1ubuntu1 amd64 ext2/ext3/ext4 file system libraries
ii e2fsprogs 1.42.13-1ubuntu1 amd64 ext2/ext3/ext4 file system utilities
ii ecryptfs-utils 111-0ubuntu1.1 amd64 ecryptfs cryptographic filesystem (utilities)
ii ed 1.10-2 amd64 classic UNIX line editor
ii efibootmgr 0.12-4 amd64 Interact with the EFI Boot Manager
ii eject 2.1.5+deb1+cvs20081104-13.1 amd64 ejects CDs and operates CD-Changers under Linux
ii emacsen-common 2.0.8 all Common facilities for all emacsen
ii enchant:i386 1.6.0-10.1build2 i386 Wrapper for various spell checker engines (binary programs)
ii eog 3.18.2-1ubuntu2.1 amd64 Eye of GNOME graphics viewer program
ii espeak-data:amd64 1.48.04+dfsg-2 amd64 Multi-lingual software speech synthesizer: speech data files
ii ethtool 1:4.5-1 amd64 display or change Ethernet device settings
ii evince 3.18.2-1ubuntu4 amd64 Document (PostScript, PDF) viewer
ii evince-common 3.18.2-1ubuntu4 all Document (PostScript, PDF) viewer - common files
ii evolution-data-server 3.18.5-1ubuntu1 amd64 evolution database backend server
ii evolution-data-server-common 3.18.5-1ubuntu1 all architecture independent files for Evolution Data Server

ii evolution-data-server-online-accounts 3.18.5-1ubuntu1 amd64 evolution data server integration with Ubuntu Online Accounts
ii example-content 49 all Ubuntu example content
ii exuberant-ctags 1:5.9~svn20110310-11 amd64 build tag file indexes of source code definitions
ii fakeroot 1.20.2-1ubuntu1 amd64 tool for simulating superuser privileges
ii file 1:5.25-2ubuntu1 amd64 Determines file type using "magic" numbers
ii file-roller 3.16.5-0ubuntu1.2 amd64 archive manager for GNOME
ii findutils 4.6.0+git+20160126-2 amd64 utilities for finding files--find, xargs
ii firefox 51.0.1+build2-0ubuntu0.16.04.2 amd64 Safe and easy web browser from Mozilla
ii firefox-locale-en 51.0.1+build2-0ubuntu0.16.04.2 amd64 English language pack for Firefox
ii firefox-locale-it 51.0.1+build2-0ubuntu0.16.04.2 amd64 Italian language pack for Firefox
ii flashplugin-installer 24.0.0.194ubuntu0.16.04.1 amd64 Adobe Flash Player plugin installer
ii flex 2.6.0-11 amd64 fast lexical analyzer generator
ii fontconfig 2.11.94-0ubuntu1.1 amd64 generic font configuration library - support binaries
ii fontconfig-config 2.11.94-0ubuntu1.1 all generic font configuration library - configuration
ii fonts-dejavu-core 2.35-1 all Vera font family derivate with additional characters
ii fonts-font-awesome 4.5.0~dfsg-1 all iconic font designed for use with Twitter Bootstrap
ii fonts-freefont-ttf 20120503-4 all Freefont Serif, Sans and Mono Truetype fonts
ii fonts-guru 2:1.2 all Meta package to install all Punjabi fonts
ii fonts-guru-extra 2.0-3 all Free fonts for Punjabi language
ii fonts-kacst 2.01+mry-12 all KACST free TrueType Arabic fonts
ii fonts-kacst-one 5.0+svn11846-7 all TrueType font designed for Arabic language
ii fonts-khmeros-core 5.0-7ubuntu1 all KhmerOS Unicode fonts for the Khmer language of Cambodia
ii fonts-lao 0.0.20060226-9 all TrueType font for Lao language
ii fonts-lato 2.0-1 all sans-serif typeface family font
ii fonts-liberation 1.07.4-1 all Fonts with the same metrics

as Times, Arial and Courier
ii fonts-lklug-sinhala 0.6-3 all Unicode Sinhala font by Lanka Linux User Group
ii fonts-lmodern 2.004.5-1 all OpenType fonts based on Computer Modern
ii fonts-lohit-guru 2.5.3-2 all Lohit TrueType font for Punjabi Language
ii fonts-lyx 2.1.4-2 all TrueType versions of some TeX fonts used by LyX
ii fonts-nanum 20140930-1 all Nanum Korean fonts
ii fonts-noto-cjk 1:1.004+repack2-1~ubuntu1 all "No Tofu" font families with large Unicode coverage (CJK)
ii fonts-opensymbol 2:102.7+LibO5.1.4-0ubuntu1 all OpenSymbol TrueType font
ii fonts-sil-abyssinica 1.500-1 all smart Unicode font for Ethiopian and Erythrean scripts (Amharic et al.)
ii fonts-sil-padauk 2.80-2 all smart Unicode font for languages in Myanmar
ii fonts-stix 1.1.1-4 all Scientific and Technical Information eXchange fonts
ii fonts-symbola 2.59-1 all symbolic font providing emoji characters from Unicode 7.0
ii fonts-takao-pgothic 003.02.01-9ubuntu3 all Japanese TrueType font set, Takao P Gothic Fonts
ii fonts-texgyre 20150923-1 all OpenType fonts based on URW Fonts
ii fonts-thai-tlwg 1:0.6.2-2.1 all Thai fonts maintained by TLWG (metapackage)
ii fonts-tibetan-machine 1.901b-5 all font for Tibetan, Dzongkha and Ladakhi (OpenType Unicode)
ii fonts-tlwg-garuda 1:0.6.2-2.1 all Thai Garuda font (dependency package)
ii fonts-tlwg-garuda-ttf 1:0.6.2-2.1 all Thai Garuda TrueType font
ii fonts-tlwg-kinnari 1:0.6.2-2.1 all Thai Kinnari font (dependency package)
ii fonts-tlwg-kinnari-ttf 1:0.6.2-2.1 all Thai Kinnari TrueType font
ii fonts-tlwg-laksaman 1:0.6.2-2.1 all Thai Laksaman font (dependency package)
ii fonts-tlwg-laksaman-ttf 1:0.6.2-2.1 all Thai Laksaman TrueType font
ii fonts-tlwg-loma 1:0.6.2-2.1 all Thai Loma font (dependency package)
ii fonts-tlwg-loma-ttf 1:0.6.2-2.1 all Thai Loma TrueType font
ii fonts-tlwg-mono 1:0.6.2-2.1 all Thai TlwgMono font

(dependency package)
ii fonts-tlwg-mono-ttf 1:0.6.2-2.1 all Thai TlwgMono TrueType font
ii fonts-tlwg-norasi 1:0.6.2-2.1 all Thai Norasi font (dependency package)
ii fonts-tlwg-norasi-ttf 1:0.6.2-2.1 all Thai Norasi TrueType font
ii fonts-tlwg-purisa 1:0.6.2-2.1 all Thai Purisa font (dependency package)
ii fonts-tlwg-purisa-ttf 1:0.6.2-2.1 all Thai Purisa TrueType font
ii fonts-tlwg-sawasdee 1:0.6.2-2.1 all Thai Sawasdee font (dependency package)
ii fonts-tlwg-sawasdee-ttf 1:0.6.2-2.1 all Thai Sawasdee TrueType font
ii fonts-tlwg-typewriter 1:0.6.2-2.1 all Thai TlwgTypewriter font (dependency package)
ii fonts-tlwg-typewriter-ttf 1:0.6.2-2.1 all Thai TlwgTypewriter TrueType font
ii fonts-tlwg-typist 1:0.6.2-2.1 all Thai TlwgTypist font (dependency package)
ii fonts-tlwg-typist-ttf 1:0.6.2-2.1 all Thai TlwgTypist TrueType font
ii fonts-tlwg-typo 1:0.6.2-2.1 all Thai TlwgTypo font (dependency package)
ii fonts-tlwg-typo-ttf 1:0.6.2-2.1 all Thai TlwgTypo TrueType font
ii fonts-tlwg-umpush 1:0.6.2-2.1 all Thai Umpush font (dependency package)
ii fonts-tlwg-umpush-ttf 1:0.6.2-2.1 all Thai Umpush TrueType font
ii fonts-tlwg-waree 1:0.6.2-2.1 all Thai Waree font (dependency package)
ii fonts-tlwg-waree-ttf 1:0.6.2-2.1 all Thai Waree TrueType font
ii foomatic-db-compressed-ppds 20160212-0ubuntu1 all OpenPrinting printer support - Compressed PPDs derived from the database
ii fortune-mod 1:1.99.1-7 amd64 provides fortune cookies on demand
ii fortunes-min 1:1.99.1-7 all Data files containing selected fortune cookies
ii freeglut3:amd64 2.8.1-2 amd64 OpenGL Utility Toolkit
ii freepats 20060219-1 all Free patch set for MIDI audio synthesis
ii friendly-recovery 0.2.31 all Make recovery more user-friendly
ii ftp 0.17-33 amd64 classical file transfer client
ii fuse 2.9.4-1ubuntu3.1 amd64 Filesystem in Userspace
ii fwupd 0.7.0-0ubuntu4.3 amd64 Firmware update daemon
ii fwupdate 0.5-2ubuntu4 amd64 Tools to manage UEFI

firmware updates
ii fwupdate-signed 1.11+0.5-2ubuntu4 amd64 Linux Firmware Updater EFI signed binary
ii g++ 4:5.3.1-1ubuntu1 amd64 GNU C++ compiler
ii g++-4.9 4.9.3-13ubuntu2 amd64 GNU C++ compiler
ii g++-5 5.4.0-6ubuntu1~16.04.4 amd64 GNU C++ compiler
ii gcc 4:5.3.1-1ubuntu1 amd64 GNU C compiler
ii gcc-4.9 4.9.3-13ubuntu2 amd64 GNU C compiler
ii gcc-4.9-base:amd64 4.9.3-13ubuntu2 amd64 GCC, the GNU Compiler Collection (base package)
ii gcc-5 5.4.0-6ubuntu1~16.04.4 amd64 GNU C compiler
ii gcc-5-base:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GCC, the GNU Compiler Collection (base package)
ii gcc-5-base:i386 5.4.0-6ubuntu1~16.04.4 i386 GCC, the GNU Compiler Collection (base package)
ii gcc-6-base:amd64 6.0.1-0ubuntu1 amd64 GCC, the GNU Compiler Collection (base package)
ii gcc-6-base:i386 6.0.1-0ubuntu1 i386 GCC, the GNU Compiler Collection (base package)
ii gconf-service 3.2.6-3ubuntu6 amd64 GNOME configuration database system (D-Bus service)
ii gconf-service-backend 3.2.6-3ubuntu6 amd64 GNOME configuration database system (D-Bus service)
ii gconf2 3.2.6-3ubuntu6 amd64 GNOME configuration database system (support tools)
ii gconf2-common 3.2.6-3ubuntu6 all GNOME configuration database system
(common files)
ii gcr 3.18.0-1ubuntu1 amd64 GNOME crypto services (daemon and tools)
ii gdb 7.11.1-0ubuntu1~16.04 amd64 GNU Debugger
ii gdbserver 7.11.1-0ubuntu1~16.04 amd64 GNU Debugger (remote server)
ii gdisk 1.0.1-1build1 amd64 GPT fdisk text-mode partitioning tool
ii gedit 3.18.3-0ubuntu4 amd64 official text editor of the GNOME desktop environment
ii gedit-common 3.18.3-0ubuntu4 all official text editor of the GNOME desktop environment (support files)
ii
genisoimage 9:1.1.11-3ubuntu1 amd64 Creates ISO-9660 CD-ROM filesystem images
ii geoclue 0.12.99-4ubuntu1 amd64 Geographic information framework
ii geoclue-ubuntu-geoip 1.0.2+14.04.20131125-0ubuntu2 amd64 Provide positioning for GeoClue via Ubuntu GeoIP services

ii geogebra 4.0.34.0+dfsg1-3 all Dynamic mathematics software for education
ii geoip-database 20160408-1 all IP lookup command line tools that use the GeoIP library (country database)
ii gettext 0.19.7-2ubuntu3 amd64 GNU Internationalization utilities
ii gettext-base 0.19.7-2ubuntu3 amd64 GNU Internationalization utilities for the base system
ii gfortran 4:5.3.1-1ubuntu1 amd64 GNU Fortran 95 compiler
ii gfortran-5 5.4.0-6ubuntu1~16.04.4 amd64 GNU Fortran compiler
ii ghostscript 9.18~dfsg~0-0ubuntu2.3 amd64 interpreter for the PostScript language and for PDF
ii ghostscript-x 9.18~dfsg~0-0ubuntu2.3 amd64 interpreter for the PostScript language and for PDF - X11 support
ii gir1.2-accounts-1.0:amd64 1.21+16.04.20160222-0ubuntu1 amd64 typelib file for libaccounts-glib0
ii gir1.2-appindicator3-0.1 12.10.1+15.04.20141110-0ubuntu1 amd64 Typelib files for libappindicator3-1.
ii gir1.2-atk-1.0 2.18.0-1 amd64 ATK accessibility toolkit (GObject introspection)
ii gir1.2-atspi-2.0 2.18.3-4ubuntu1 amd64 Assistive Technology Service Provider (GObject introspection)
ii gir1.2-dbusmenu-glib-0.4:amd64 16.04.1+16.04.20160927-0ubuntu1 amd64 typelib file for libdbusmenu-glib4
ii gir1.2-dee-1.0 1.2.7+15.04.20150304-0ubuntu2 amd64 GObject introspection data for the Dee library
ii gir1.2-freedesktop:amd64 1.46.0-3ubuntu1 amd64 Introspection data for some FreeDesktop components
ii gir1.2-gdata-0.0:amd64 0.17.4-1 amd64 GObject introspection data for the GData webservices library
ii gir1.2-gdkpixbuf-2.0:amd64 2.32.2-1ubuntu1.2 amd64 GDK Pixbuf library - GObject-Introspection
ii gir1.2-glib-2.0:amd64 1.46.0-3ubuntu1 amd64 Introspection data for GLib, GObject, Gio and GModule
ii gir1.2-gnomekeyring-1.0 3.12.0-1build1 amd64 GNOME keyring services library - introspection data
ii gir1.2-goa-1.0:amd64 3.18.3-1ubuntu2 amd64 Introspection data for GNOME Online Accounts
ii gir1.2-gst-plugins-base-1.0 1.8.2-1ubuntu0.2 amd64 GObject introspection data for the GStreamer Plugins Base library
ii gir1.2-gstreamer-1.0 1.8.2-1~ubuntu1 amd64 GObject introspection data for the GStreamer library
ii gir1.2-gtk-2.0 2.24.30-1ubuntu1 amd64 GTK+ graphical user interface library -- gir bindings
ii gir1.2-gtk-3.0:amd64 3.18.9-1ubuntu3.1 amd64 GTK+ graphical

user interface library -- gir bindings
ii gir1.2-gtksource-3.0:amd64 3.18.2-1 amd64 gir files for the GTK+ syntax highlighting widget
ii gir1.2-gudev-1.0:amd64 1:230-2 amd64 libgudev-1.0 introspection data
ii gir1.2-ibus-1.0:amd64 1.5.11-1ubuntu2 amd64 Intelligent Input Bus - introspection data
ii gir1.2-javascriptcoregtk-4.0:amd64 2.14.3-0ubuntu0.16.04.1 amd64 JavaScript engine library from WebKitGTK+ - GObject introspection data
ii gir1.2-json-1.0:amd64 1.1.2-0ubuntu1 amd64 GLib JSON manipulation library (introspection data)
ii gir1.2-notify-0.7 0.7.6-2svn1 amd64 sends desktop notifications to a notification daemon (Introspection files)
ii gir1.2-packagekitglib-1.0 0.8.17-4ubuntu6~gcc5.4ubuntu1.1 amd64 GObject introspection data for the PackageKit GLib library
ii gir1.2-pango-1.0:amd64 1.38.1-1 amd64 Layout and rendering of internationalized text - gir bindings
ii gir1.2-peas-1.0:amd64 1.16.0-1ubuntu2 amd64 Application plugin library (introspection files)
ii gir1.2-rb-3.0:amd64 3.3-1ubuntu7 amd64 GObject introspection data for the rhythmbox music player
ii gir1.2-secret-1:amd64 0.18.4-1ubuntu2 amd64 Secret store (GObject-Introspection)
ii gir1.2-signon-1.0 1.13+16.04.20151209.1-0ubuntu1 amd64 GObject introspection data for the Signon library
ii gir1.2-soup-2.4 2.52.2-1ubuntu0.1 amd64 GObject introspection data for the libsoup HTTP library
ii gir1.2-totem-1.0:amd64 3.18.1-1ubuntu4 amd64 GObject introspection data for Totem media player
ii gir1.2-totem-plparser-1.0:amd64 3.10.6-1ubuntu1 amd64 GObject introspection data for the Totem Playlist Parser library
ii gir1.2-udisks-2.0:amd64 2.1.7-1ubuntu1 amd64 GObject based library to access udisks2 - introspection data
ii gir1.2-unity-5.0:amd64 7.1.4+16.04.20160701-0ubuntu1 amd64 GObject introspection data for the Unity library
ii gir1.2-vte-2.91:amd64 0.42.5-1ubuntu1 amd64 GObject introspection data for the VTE library
ii gir1.2-webkit2-4.0:amd64 2.14.3-0ubuntu0.16.04.1 amd64 Web content engine library for GTK+ - GObject introspection data
ii gir1.2-wnck-3.0:amd64 3.14.1-2 amd64 GObject introspection data for the WNCK library
ii git 1:2.7.4-0ubuntu1 amd64 fast, scalable, distributed revision control system
ii git-man 1:2.7.4-0ubuntu1 all fast, scalable, distributed revision control system (manual pages)
ii gkbd-capplet 3.6.0-1ubuntu2 amd64 GNOME control center tools for libgnomekbd

ii glib-networking:amd64 2.48.2-1~ubuntu16.04.1 amd64 network-related giomodules for GLib
ii glib-networking:i386 2.48.2-1~ubuntu16.04.1 i386 network-related giomodules
for GLib
ii glib-networking-common 2.48.2-1~ubuntu16.04.1 all network-related giomodules for GLib - data files
ii glib-networking-services 2.48.2-1~ubuntu16.04.1 amd64 network-related giomodules for GLib - D-Bus services
ii gnome-accessibility-themes 3.18.0-2ubuntu1 all Accessibility themes for the GNOME desktop
ii gnome-bluetooth 3.18.2-1ubuntu2 amd64 GNOME Bluetooth tools
ii gnome-calculator 1:3.18.3-0ubuntu1.16.04.1 amd64 GNOME desktop calculator
ii gnome-calendar 3.20.4-0ubuntu0.1 amd64 Calendar application for GNOME
ii gnome-desktop3-data
3.18.2-1ubuntu1 all Common files for GNOME desktop apps
ii gnome-disk-utility 3.18.3.1-1ubuntu1 amd64 manage and configure disk drives and media
ii gnome-font-viewer 3.16.2-1ubuntu1 amd64 font viewer for GNOME
ii gnome-keyring 3.18.3-0ubuntu2 amd64 GNOME keyring services (daemon and tools)
ii gnome-mahjongg 1:3.18.0-1 amd64 classic Eastern tile game for GNOME
ii gnome-menus 3.13.3-6ubuntu3.1 amd64 GNOME implementation of the freedesktop menu specification
ii gnome-mines
1:3.18.2-2 amd64 popular minesweeper puzzle game for GNOME
ii gnome-orca 3.18.2-1ubuntu3 all Scriptable screen reader
ii gnome-power-manager 3.18.0-1ubuntu1 amd64 power management tool for the GNOME desktop
ii gnome-screensaver 3.6.1-7ubuntu4 amd64 GNOME screen saver and locker
ii gnome-screenshot 3.18.0-1ubuntu2 amd64 screenshot application for GNOME
ii gnome-session-bin 3.18.1.2-1ubuntu1.16.04.2 amd64 GNOME Session Manager - Minimal runtime
ii gnome-session-canberra 0.30-2.1ubuntu1
amd64 GNOME session log in and log out sound events
ii gnome-session-common 3.18.1.2-1ubuntu1.16.04.2 all GNOME Session Manager - common files
ii gnome-settings-daemon-schemas 3.18.2-0ubuntu3.1 all gnome-settings-daemon schemas
ii gnome-software 3.20.1+git20161013.0.d77d6cf-0ubuntu2~xenial1 amd64 Software Center for GNOME

ii gnome-software-common 3.20.1+git20161013.0.d77d6cf-0ubuntu2~xenial1 all Software Center for GNOME (common files)
ii gnome-sudoku 1:3.18.4-0ubuntu2 amd64 Sudoku puzzle game for GNOME
ii gnome-system-log 3.9.90-4 amd64 system log viewer for GNOME
ii gnome-system-monitor 3.18.2-1ubuntu1 amd64 Process viewer and system resource monitor for GNOME
ii gnome-terminal 3.18.3-1ubuntu1 amd64 GNOME terminal emulator application
ii gnome-terminal-data 3.18.3-1ubuntu1 all Data files for the GNOME terminal emulator
ii gnome-user-guide 3.18.1-1 all GNOME user's guide
ii gnome-user-share 3.14.2-2ubuntu4 amd64 User level public file sharing via WebDAV or ObexFTP
ii gnome-video-effects 0.4.1-3ubuntu1 all Collection of GStreamer effects
ii gnupg 1.4.20-1ubuntu3.1 amd64 GNU privacy guard - a free PGP replacement
ii gnupg-agent 2.1.11-6ubuntu2 amd64 GNU privacy guard - cryptographic agent
ii gnupg2 2.1.11-6ubuntu2 amd64 GNU privacy guard - a free PGP replacement (new v2.x)
ii google-chrome-stable 56.0.2924.76-1 amd64 The web browser from Google
ii google-talkplugin 5.41.3.0-1 amd64 Google Talk Plugin
ii gpgv 1.4.20-1ubuntu3.1 amd64 GNU privacy guard - signature verification tool
ii graphviz 2.38.0-12ubuntu2.1 amd64 rich set of graph drawing tools
ii grep 2.25-1~16.04.1 amd64 GNU grep, egrep and fgrep
ii grilo-plugins-0.2-base:amd64 0.2.17-0ubuntu2 amd64 Framework for discovering and browsing media - Base Plugins
ii groff-base 1.22.3-7 amd64 GNU troff text-formatting system (base system components)
ii grub-common 2.02~beta2-36ubuntu3.7 amd64 GRand Unified Bootloader (common files)
ii grub-efi-amd64 2.02~beta2-36ubuntu3.7 amd64 GRand Unified Bootloader, version 2 (EFI-AMD64 version)
ii grub-efi-amd64-bin 2.02~beta2-36ubuntu3.7 amd64 GRand Unified Bootloader, version 2 (EFI-AMD64 binaries)
ii grub-efi-amd64-signed 1.66.7+2.02~beta2-36ubuntu3.7 amd64 GRand Unified Bootloader, version 2 (EFI-AMD64 version, signed)
ii grub2-common 2.02~beta2-36ubuntu3.7 amd64 GRand Unified Bootloader (common files for version 2)

ii gsettings-desktop-schemas 3.18.1-1ubuntu1 all GSettings desktop-wide schemas
ii gsettings-ubuntu-schemas 0.0.5+16.04.20160307-0ubuntu1 all GSettings deskop-wide schemas for Ubuntu
ii gsfonts 1:8.11+urwcyr1.0.7~pre44-4.2ubuntu1 all Fonts for the Ghostscript interpreter(s)
ii gsfonts-x11 0.24 all Make Ghostscript fonts available to X11
ii gstreamer1.0-alsa:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer plugin for ALSA
ii gstreamer1.0-clutter-3.0 3.0.18-1 amd64 Clutter PLugin for GStreamer 1.0
ii gstreamer1.0-fluendo-mp3:amd64 0.10.32.debian-1 amd64 Fluendo mp3 decoder GStreamer 1.0 plugin
ii gstreamer1.0-libav:amd64 1.8.2-1~ubuntu1 amd64 libav plugin for GStreamer
ii gstreamer1.0-plugins-bad:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer plugins from the "bad" set
ii gstreamer1.0-plugins-bad-faad:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer faad plugin from the "bad" set
ii gstreamer1.0-plugins-bad-videoparsers:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer videoparsers plugin from the "bad" set
ii gstreamer1.0-plugins-base:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer plugins from the "base" set
ii gstreamer1.0-plugins-base:i386 1.8.2-1ubuntu0.2 i386 GStreamer plugins from the "base" set
ii gstreamer1.0-plugins-base-apps 1.8.2-1ubuntu0.2 amd64 GStreamer helper programs from the "base" set
ii gstreamer1.0-plugins-good:amd64 1.8.2-1ubuntu0.3 amd64 GStreamer plugins from the "good" set
ii gstreamer1.0-plugins-good:i386 1.8.2-1ubuntu0.3 i386 GStreamer plugins from the "good" set
ii gstreamer1.0-plugins-ugly:amd64 1.8.2-1ubuntu0.1 amd64 GStreamer plugins from the "ugly" set
ii gstreamer1.0-plugins-ugly-amr:amd64 1.8.2-1ubuntu0.1 amd64 GStreamer plugins from the "ugly" set
ii gstreamer1.0-pulseaudio:amd64 1.8.2-1ubuntu0.3 amd64 GStreamer plugin for PulseAudio
ii gstreamer1.0-tools 1.8.2-1~ubuntu1 amd64 Tools for use with GStreamer
ii gstreamer1.0-x:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer plugins for X11 and Pango
ii gstreamer1.0-x:i386 1.8.2-1ubuntu0.2 i386 GStreamer plugins for X11 and Pango
ii gtk2-engines-murrine:amd64 0.98.2-0ubuntu2.2 amd64 cairo-based gtk+-2.0 theme engine
ii gucharmap 1:3.18.2-1ubuntu1 amd64 Unicode character picker and font browser

ii guile-2.0-libs:amd64 2.0.11+1-10 amd64 Core Guile libraries
ii gvfs:amd64 1.28.2-1ubuntu1~16.04.1 amd64 userspace virtual filesystem - GIO module
ii gvfs-backends 1.28.2-1ubuntu1~16.04.1 amd64 userspace virtual filesystem - backends
ii gvfs-bin 1.28.2-1ubuntu1~16.04.1 amd64 userspace virtual filesystem - binaries
ii gvfs-common 1.28.2-1ubuntu1~16.04.1 all userspace virtual filesystem - common data files
ii gvfs-daemons 1.28.2-1ubuntu1~16.04.1 amd64 userspace virtual filesystem - servers
ii gvfs-fuse 1.28.2-1ubuntu1~16.04.1 amd64 userspace virtual filesystem - fuse server
ii gvfs-libs:amd64 1.28.2-1ubuntu1~16.04.1 amd64 userspace virtual filesystem - private libraries
ii gyp 0.1+20150913git1f374df9-1ubuntu1 all Cross-platform build script generator
ii gzip 1.6-4ubuntu1 amd64 GNU compression utilities
ii hardening-includes 2.7ubuntu2 all Makefile for enabling compiler flags for security hardening
ii hdparm 9.48+ds-1 amd64 tune hard disk parameters for high performance
ii heroku 3.43.16 all Client library and CLI to deploy apps on Heroku.
ii heroku-toolbelt 3.43.16 all A metapackage for working with the Heroku platform.
ii hicolor-icon-theme 0.15-0ubuntu1 all default fallback theme for FreeDesktop.org icon themes
ii hostname 3.16ubuntu2 amd64 utility to set/show the host name or domain name
ii hplip 3.16.3+repack0-1 amd64 HP Linux Printing and Imaging System (HPLIP)
ii hplip-data 3.16.3+repack0-1 all HP Linux Printing and Imaging - data files
ii hud 14.10+16.04.20160415-0ubuntu1 amd64 Backend for the Unity HUD
ii humanity-icon-theme 0.6.10 all Humanity Icon theme
ii hunspell-en-au 1:5.1.0-1ubuntu2.2 all English (Australia) dictionary for hunspell
ii hunspell-en-ca 1:5.1.0-1ubuntu2.2 all English (Canada) dictionary for hunspell
ii hunspell-en-gb 1:5.1.0-1ubuntu2.2 all English (GB) dictionary for hunspell
ii hunspell-en-us 20070829-6ubuntu3 all English_american dictionary for hunspell

ii hunspell-en-za 1:5.1.0-1ubuntu2.2 all English (South Africa) dictionary for hunspell
ii hunspell-it 1:5.1.0-1ubuntu2.2 all Italian dictionary for hunspell
ii hwdata 0.267-1 all hardware identification / configuration data
ii hyphen-en-gb 1:5.1.0-1ubuntu2.2 all English (GB) hyphenation patterns
ii hyphen-en-us 2.8.8-2ubuntu1 all US English hyphenation patterns for LibreOffice/OpenOffice.org
ii hyphen-it 1:5.1.0-1ubuntu2.2 all Italian hyphenation patterns
ii i965-va-driver:amd64 1.7.0-1 amd64 VAAPI driver for Intel G45 & HD Graphics family
ii ibus 1.5.11-1ubuntu2 amd64 Intelligent Input Bus - core
ii ibus-gtk:amd64 1.5.11-1ubuntu2 amd64 Intelligent Input Bus - GTK+2 support
ii ibus-gtk3:amd64 1.5.11-1ubuntu2 amd64 Intelligent Input Bus - GTK+3 support
ii ibus-table 1.9.1-3ubuntu2 all table engine for IBus
ii icedtea-netx-common 1.6.2-3ubuntu1 all NetX - implementation of the Java Network Launching Protocol (JNLP)
ii icu-devtools 55.1-7 amd64 Development utilities for International Components for Unicode
ii ifupdown 0.8.10ubuntu1.2 amd64 high level tools to configure network interfaces
ii im-config 0.29-1ubuntu12.3 all Input method configuration framework
ii imagemagick 8:6.8.9.9-7ubuntu5.3 amd64 image manipulation programs -- binaries
ii imagemagick-6.q16 8:6.8.9.9-7ubuntu5.3 amd64 image manipulation programs -- quantum depth Q16
ii imagemagick-common 8:6.8.9.9-7ubuntu5.3 all image manipulation programs -- infrastructure
ii indicator-application 12.10.1+15.04.20150128-0ubuntu1 amd64 Application Indicators
ii indicator-appmenu 15.02.0+16.04.20151104-0ubuntu1 amd64 Indicator for application menus.
ii indicator-bluetooth 0.0.6+16.04.20160526-0ubuntu1 amd64 System bluetooth indicator.
ii indicator-datetime 15.10+16.04.20160406-0ubuntu1 amd64 Simple clock
ii indicator-keyboard 0.0.0+16.04.20151125-0ubuntu1 amd64 Keyboard indicator
ii indicator-messages 13.10.1+15.10.20150505-0ubuntu1 amd64 indicator that collects messages that need a response
ii indicator-power 12.10.6+16.04.20160105-0ubuntu1 amd64 Indicator showing power state.

ii indicator-printers 0.1.7+15.04.20150220-0ubuntu2 amd64 indicator showing active print jobs
ii indicator-session 12.10.5+16.04.20160412-0ubuntu1 amd64 indicator showing session management, status and user switching
ii indicator-sound 12.10.2+16.04.20160406-0ubuntu1 amd64 System sound indicator.
ii info 6.1.0.dfsg.1-5 amd64 Standalone GNU Info documentation browser
ii init 1.29ubuntu3 amd64 System-V-like init utilities - metapackage
ii init-system-helpers 1.29ubuntu3 all helper tools for all init systems
ii initramfs-tools 0.122ubuntu8.8 all generic modular initramfs generator (automation)
ii initramfs-tools-bin 0.122ubuntu8.8 amd64 binaries used by initramfs-tools
ii initramfs-tools-core 0.122ubuntu8.8 all generic modular initramfs generator (core tools)
ii initscripts 2.88dsf-59.3ubuntu2 amd64 scripts for initializing and shutting down the system
ii inputattach 1:1.4.9-1 amd64 utility to connect serial-attached peripherals to the input subsystem
ii insserv 1.14.0-5ubuntu3 amd64 boot sequence organizer using LSB init.d script dependency information
ii install-info 6.1.0.dfsg.1-5 amd64 Manage installed documentation in info format
ii intel-gpu-tools 1.14-1 amd64 tools for debugging the Intel graphics driver
ii intel-microcode 3.20151106.1 amd64 Processor microcode firmware for Intel CPUs
ii intltool-debian 0.35.0+20060710.4 all Help i18n of RFC822 compliant config files
ii ippusbxd 1.23-1 amd64 Daemon for IPP USB printer support
ii iproute2 4.3.0-1ubuntu3 amd64 networking and traffic control tools
ii iptables 1.6.0-2ubuntu3 amd64 administration tools for packet filtering and NAT
ii iputils-arping 3:20121221-5ubuntu2 amd64 Tool to send ICMP echo requests to an ARP address
ii iputils-ping 3:20121221-5ubuntu2 amd64 Tools to test the reachability of network hosts
ii iputils-tracepath 3:20121221-5ubuntu2 amd64 Tools to trace the network path to a remote host
ii irqbalance 1.1.0-2ubuntu1 amd64 Daemon to balance interrupts for SMP systems

ii isc-dhcp-client 4.3.3-5ubuntu12.6 amd64 DHCP client for automatically obtaining an IP address
ii isc-dhcp-common 4.3.3-5ubuntu12.6 amd64 common files used by all of the isc-dhcp packages
ii iso-codes 3.65-1 all ISO language, territory, currency, script codes and their translations
ii iucode-tool 1.5.1-1ubuntu0.1 amd64 Intel processor microcode tool
ii iw 3.17-1 amd64 tool for configuring Linux wireless devices
ii java-common 0.56ubuntu2 all Base package for Java runtimes
ii javahelp2 2.0.05.ds1-8 all Java based help system
ii javascript-common 11 all Base support for JavaScript library packages
ii jayatana 2.7-0ubuntu5 amd64 Java Native Library for ayatana project
ii jblas 1.2.3-6 amd64 fast linear algebra library for Java
ii junit 3.8.2-8build1 all Automated testing framework for Java
ii junit4 4.12-4ubuntu1 all JUnit regression test framework for Java
ii kbd 1.15.5-1ubuntu5 amd64 Linux console font and keytable utilities
ii kerneloops-daemon 0.12+git20140509-2ubuntu1 amd64 kernel oops tracker
ii keyboard-configuration 1.108ubuntu15.2 all system-wide keyboard preferences
ii keyutils 1.5.9-8ubuntu1 amd64 Linux Key Management Utilities
ii klibc-utils 2.0.4-8ubuntu1.16.04.2 amd64 small utilities built with klibc for early boot
ii kmod 22-1ubuntu4 amd64 tools for managing Linux kernel modules
ii krb5-locales 1.13.2+dfsg-5ubuntu1 all Internationalization support for MIT Kerberos
ii language-pack-en 1:16.04+20161009 all translation updates for language English
ii language-pack-en-base 1:16.04+20160627 all translations for language English
ii language-pack-gnome-en 1:16.04+20161009 all GNOME translation updates for language English
ii language-pack-gnome-en-base 1:16.04+20160627 all GNOME translations for language English
ii language-pack-gnome-it

1:16.04+20161009 all GNOME translation updates for language Italian
ii language-pack-gnome-it-base 1:16.04+20160627 all GNOME translations for language Italian
ii language-pack-it 1:16.04+20161009 all translation updates for language Italian
ii language-pack-it-base 1:16.04+20160627 all translations for language Italian
ii language-selector-common 0.165.4 all Language selector for Ubuntu
ii language-selector-gnome 0.165.4 all Language selector for Ubuntu
ii laptop-detect 0.13.7ubuntu2 amd64 attempt to detect a laptop
ii less 481-2.1ubuntu0.1 amd64 pager program similar to more
ii lib32z1 1:1.2.8.dfsg-2ubuntu4 amd64 compression library - 32 bit runtime
ii liba11y-profile-manager-0.1-0:amd64 0.1.10-0ubuntu3 amd64 Accessibility profile manager - Shared library
ii liba11y-profile-manager-data 0.1.10-0ubuntu3 all Accessibility Profile Manager - GSettings data
ii liba52-0.7.4:amd64 0.7.4-18 amd64 library for decoding ATSC A/52 streams
ii libaa1:amd64 1.4p5-44build1 amd64 ASCII art library
ii libaa1:i386 1.4p5-44build1 i386 ASCII art library
ii libaacs0:amd64 0.8.1-1 amd64 free-and-libre implementation of AACS
ii libabw-0.1-1v5:amd64 0.1.1-2ubuntu2 amd64 library for reading and writing AbiWord(tm) documents
ii libaccount-plugin-1.0-0:amd64 0.1.8+16.04.20160201-0ubuntu1 amd64 libaccount-plugin for Unity Control Center
ii libaccount-plugin-generic-oauth 0.12+16.04.20160126-0ubuntu1 amd64 GNOME Control Center account plugin for single signon - generic OAuth
ii libaccount-plugin-google 0.12+16.04.20160126-0ubuntu1 amd64 GNOME Control Center account plugin for single signon - Google Auth
ii libaccounts-glib0:amd64 1.21+16.04.20160222-0ubuntu1 amd64 library for single signon
ii libaccounts-qt5-1:amd64 1.14+16.04.20151106.1-0ubuntu1 amd64 QT library for single sign on
ii libaccountsservice0:amd64 0.6.40-2ubuntu11.3 amd64 query and manipulate user account information - shared libraries
ii libacl1:amd64 2.2.52-3 amd64 Access control list shared library
ii libalgorithm-diff-perl 1.19.03-1 all module to find differences between files
ii libalgorithm-diff-xs-perl 0.04-4build1

amd64 module to find differences between files (XS accelerated)
ii libalgorithm-merge-perl 0.08-3 all Perl module for three-way merge of textual data
ii libandroid-properties1 0.1.0+git20151016+6d424c9-0ubuntu7 amd64 Library to provide access to get, set and list Android properties
ii libao-common 1.1.0-3ubuntu1 all Cross Platform Audio Output Library (Common files)
ii libao4:amd64 1.1.0-3ubuntu1 amd64 Cross Platform Audio Output Library
ii libaopalliance-java 20070526-5 all library for interoperability for Java AOP implementations
ii libapache-pom-java 10-2build1 all Maven metadata for all Apache Software projects
ii libapparmor-perl 2.10.95-0ubuntu2.5 amd64 AppArmor library Perl bindings
ii libapparmor1:amd64 2.10.95-0ubuntu2.5 amd64 changehat AppArmor library
ii libappindicator1 12.10.1+15.04.20141110-0ubuntu1 amd64 Application Indicators
ii libappindicator3-1 12.10.1+15.04.20141110-0ubuntu1 amd64 Application Indicators
ii libappstream-glib8:amd64 0.5.13-1ubuntu4 amd64 GNOME library to access AppStream services
ii libappstream3:amd64 0.9.4-1ubuntu2 amd64 Library to access AppStream services
ii libapt-inst2.0:amd64 1.2.18 amd64 deb package format runtime library
ii libapt-pkg-perl 0.1.29build7 amd64 Perl interface to libapt-pkg
ii libapt-pkg5.0:amd64 1.2.18 amd64 package management runtime library
ii libarchive-zip-perl 1.56-2 all Perl module for manipulation of ZIP archives
ii libarchive13:amd64 3.1.2-11ubuntu0.16.04.2 amd64 Multi-format archive and compression library (shared library)
ii libart-2.0-2:amd64 2.3.21-2 amd64 Library of functions for 2D graphics - runtime files
ii libasan1:amd64 4.9.3-13ubuntu2 amd64 AddressSanitizer -- a fast memory error detector
ii libasan2:amd64 5.4.0-6ubuntu1~16.04.4 amd64 AddressSanitizer -- a fast memory error detector
ii libasm4-java 5.0.4-1 all Java bytecode manipulation framework
ii libasn1-8-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - ASN.1 library
ii libasound2:amd64 1.1.0-0ubuntu1 amd64 shared library for ALSA applications
ii libasound2:i386 1.1.0-0ubuntu1 i386 shared library for

ALSA applications
ii libasound2-data 1.1.0-0ubuntu1 all Configuration files and profiles for ALSA drivers
ii libasound2-plugins:amd64 1.1.0-0ubuntu1 amd64 ALSA library additional plugins
ii libasound2-plugins:i386 1.1.0-0ubuntu1 i386 ALSA library additional plugins
ii libaspell15:amd64 0.60.7~20110707-3build1 amd64 GNU Aspell spell-checker runtime library
ii libaspell15:i386 0.60.7~20110707-3build1 i386 GNU Aspell spell-checker runtime library
ii libasprintf-dev:amd64 0.19.7-2ubuntu3 amd64 GNU Internationalization library development files
ii libasprintf0v5:amd64 0.19.7-2ubuntu3 amd64 GNU library to use fprintf and friends in C++
ii libass5:amd64 0.13.1-1 amd64 library for SSA/ASS subtitles rendering
ii libassuan0:amd64 2.4.2-2 amd64 IPC library for the GnuPG components
ii libasyncns0:amd64 0.8-5build1 amd64 Asynchronous name service query library
ii libasyncns0:i386 0.8-5build1 i386 Asynchronous name service query library
ii libatasmart4:amd64 0.19-3 amd64 ATA S.M.A.R.T. reading and parsing library
ii libatinject-jsr330-api-java 1.0+ds1-2 all Java API for JSR-330 Dependency Injection
ii libatk-adaptor:amd64 2.18.1-2ubuntu1 amd64 AT-SPI 2 toolkit bridge
ii libatk-bridge2.0-0:amd64 2.18.1-2ubuntu1 amd64 AT-SPI 2 toolkit bridge - shared library
ii libatk1.0-0:amd64 2.18.0-1 amd64 ATK accessibility toolkit
ii libatk1.0-0:i386 2.18.0-1 i386 ATK accessibility toolkit
ii libatk1.0-data 2.18.0-1 all Common files for the ATK accessibility toolkit
ii libatk1.0-dev 2.18.0-1 amd64 Development files for the ATK accessibility toolkit
ii libatkmm-1.6-1v5:amd64 2.24.2-1 amd64 C++ wrappers for ATK accessibility toolkit (shared libraries)
ii libatlas-base-dev 3.10.2-9 amd64 Automatically Tuned Linear Algebra Software, generic static
ii libatlas-dev 3.10.2-9 amd64 Automatically Tuned Linear Algebra Software, C header files
ii libatlas3-base 3.10.2-9 amd64 Automatically Tuned Linear Algebra Software, generic shared
ii libatm1:amd64 1:2.5.1-1.5 amd64 shared library for ATM

(Asynchronous
Transfer Mode)
ii libatomic1:amd64 5.4.0-6ubuntu1~16.04.4 amd64 support library providing __atomic built-in functions
ii libatspi2.0-0:amd64 2.18.3-4ubuntu1 amd64 Assistive Technology Service Provider Interface - shared library
ii libattr1:amd64 1:2.4.47-2 amd64 Extended attribute shared library
ii libaudio2:amd64 1.9.4-4 amd64 Network Audio System - shared libraries
ii libaudio2:i386 1.9.4-4 i386 Network Audio System - shared libraries
ii libaudit-common 1:2.4.5-1ubuntu2 all Dynamic library for security auditing - common files
ii libaudit1:amd64 1:2.4.5-1ubuntu2 amd64 Dynamic library for security auditing
ii libauthen-sasl-perl 2.1600-1 all Authen::SASL - SASL Authentication framework
ii libavahi-client3:amd64 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi client library
ii libavahi-client3:i386 0.6.32~rc+dfsg-1ubuntu2 i386 Avahi client library
ii libavahi-common-data:amd64 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi common data files
ii libavahi-common-data:i386 0.6.32~rc+dfsg-1ubuntu2 i386 Avahi common data files
ii libavahi-common3:amd64
0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi common library
ii libavahi-common3:i386 0.6.32~rc+dfsg-1ubuntu2 i386 Avahi common library
ii libavahi-core7:amd64 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi's embeddable mDNS/DNS-SD library
ii libavahi-glib1:amd64 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi GLib integration library
ii libavahi-ui-gtk3-0:amd64 0.6.32~rc+dfsg-1ubuntu2 amd64 Avahi GTK+ User interface library for GTK3
ii libavc1394-0:amd64 0.5.4-4 amd64 control IEEE 1394 audio/video devices
ii libavc1394-0:i386 0.5.4-4 i386
control IEEE 1394 audio/video devices
ii libavcodec-dev:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library with de/encoders for audio/video codecs - development files
ii libavcodec-ffmpeg56:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library with de/encoders for audio/video codecs - runtime files
ii libavfilter-ffmpeg5:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library containing media filters - runtime files
ii libavformat-dev:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library with (de)muxers for multimedia containers - development files

ii libavformat-ffmpeg56:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library with (de)muxers for multimedia containers - runtime files
ii libavresample-ffmpeg2:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg compatibility library for resampling - runtime files
ii libavutil-dev:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library with functions for simplifying programming - development files
ii libavutil-ffmpeg54:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library with functions for simplifying programming - runtime files
ii libbabeltrace-ctf1:amd64 1.3.2-1 amd64 Common Trace Format (CTF) library
ii libbabeltrace1:amd64 1.3.2-1 amd64 Babeltrace conversion libraries
ii libbamf3-2:amd64 0.5.3~bzr0+16.04.20160824-0ubuntu1 amd64 Window matching library - shared library
ii libbdplus0:amd64 0.1.2-1 amd64 implementation of BD+ for reading Blu-ray Discs
ii libbind9-140:amd64 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 BIND9 Shared Library used by BIND
ii libbison-dev:amd64 2:3.0.4.dfsg-1 amd64 YACC-compatible parser generator - development library
ii libblas-common 3.6.0-2ubuntu2 amd64 Dependency package for all BLAS implementations
ii libblas-dev 3.6.0-2ubuntu2 amd64 Basic Linear Algebra Subroutines 3, static library
ii libblas3 3.6.0-2ubuntu2 amd64 Basic Linear Algebra Reference implementations, shared library
ii libblkid1:amd64 2.27.1-6ubuntu3.2 amd64 block device ID library
ii libbluetooth3:amd64 5.37-0ubuntu5 amd64 Library to use the BlueZ Linux Bluetooth stack
ii libbluray1:amd64 1:0.9.2-2 amd64 Blu-ray disc playback support library (shared library)
ii libboost-date-time1.58.0:amd64 1.58.0+dfsg-5ubuntu3.1 amd64 set of date-time libraries based on generic programming concepts
ii libboost-filesystem1.58.0:amd64 1.58.0+dfsg-5ubuntu3.1 amd64 filesystem operations (portable paths, iteration over directories, etc) in C++
ii libboost-iostreams1.58.0:amd64 1.58.0+dfsg-5ubuntu3.1 amd64 Boost.Iostreams Library
ii libboost-system1.58.0:amd64 1.58.0+dfsg-5ubuntu3.1 amd64 Operating system (e.g. diagnostics support) library
ii libbrlapi0.6:amd64 5.3.1-2ubuntu2.1 amd64 braille display access via BRLTTY - shared library
ii libbs2b0:amd64 3.1.0+dfsg-2.2 amd64 Bauer stereophonic-to-binaural DSP library
ii libbsd0:amd64 0.8.2-1 amd64 utility functions from BSD systems - shared library
ii libbsd0:i386 0.8.2-1 i386 utility functions from BSD

systems - shared library
ii
libbsh-java 2.0b4-17ubuntu1 all Java scripting environment (BeanShell) Version 2 (library)
ii libbz2-1.0:amd64 1.0.6-8 amd64 high-quality block-sorting file compressor library - runtime
ii libbz2-1.0:i386 1.0.6-8 i386 high-quality block-sorting file compressor library - runtime
ii libc-bin 2.23-0ubuntu5 amd64 GNU C Library: Binaries
ii libc-dev-bin 2.23-0ubuntu5 amd64 GNU C Library: Development binaries
ii libc6:amd64 2.23-0ubuntu5 amd64 GNU C Library: Shared libraries
ii libc6:i386 2.23-0ubuntu5 i386 GNU C Library: Shared libraries
ii libc6-dbg:amd64 2.23-0ubuntu5 amd64 GNU C Library: detached debugging symbols
ii libc6-dev:amd64 2.23-0ubuntu5 amd64 GNU C Library: Development Libraries and Header Files
ii libc6-i386 2.23-0ubuntu5 amd64 GNU C Library: 32-bit shared libraries for AMD64
ii libcaca0:amd64 0.99.beta19-2build2~gcc5.2 amd64 colour ASCII art library
ii libcaca0:i386 0.99.beta19-2build2~gcc5.2 i386 colour ASCII art library
ii libcairo-gobject2:amd64
1.14.6-1 amd64 Cairo 2D vector graphics library (GObject library)
ii libcairo-gobject2:i386 1.14.6-1 i386 Cairo 2D vector graphics library (GObject library)
ii libcairo-script-interpreter2:amd64 1.14.6-1 amd64 Cairo 2D vector graphics library (script interpreter)
ii libcairo2:amd64 1.14.6-1 amd64 Cairo 2D vector graphics library
ii libcairo2:i386 1.14.6-1 i386 Cairo 2D vector graphics library
ii libcairo2-dev 1.14.6-1 amd64 Development files for the Cairo 2D graphics library
ii libcairomm-1.0-1v5:amd64
1.12.0-1 amd64 C++ wrappers for Cairo (shared libraries)
ii libcamel-1.2-54:amd64 3.18.5-1ubuntu1 amd64 Evolution MIME message handling library
ii libcanberra-gtk-module:amd64 0.30-2.1ubuntu1 amd64 translates GTK+ widgets signals to event sounds
ii libcanberra-gtk0:amd64 0.30-2.1ubuntu1 amd64 GTK+ helper for playing widget event sounds with libcanberra
ii libcanberra-gtk3-0:amd64 0.30-2.1ubuntu1 amd64 GTK+ 3.0 helper for playing widget event sounds with libcanberra

ii libcanberra-gtk3-module:amd64 0.30-2.1ubuntu1 amd64 translates GTK3
widgets signals to event sounds
ii libcanberra-pulse:amd64 0.30-2.1ubuntu1 amd64 PulseAudio backend for libcanberra
ii libcanberra0:amd64 0.30-2.1ubuntu1 amd64 simple abstract interface for playing event sounds
ii libcap-ng0:amd64 0.7.7-1 amd64 An alternate POSIX capabilities library
ii libcap2:amd64 1:2.24-12 amd64 POSIX 1003.1e capabilities (library)
ii libcap2:i386 1:2.24-12 i386 POSIX 1003.1e capabilities (library)
ii libcap2-bin 1:2.24-12 amd64 POSIX 1003.1e capabilities (utilities)
ii
libcc1-0:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GCC cc1 plugin for GDB
ii libcdi-api-java 1.0-2 all Contexts and Dependency Injection for Java EE
ii libcdio-cdda1:amd64 0.83-4.2ubuntu1 amd64 library to read and control digital audio CDs
ii libcdio-paranoia1:amd64 0.83-4.2ubuntu1 amd64 library to read digital audio CDs with error correction
ii libcdio13:amd64 0.83-4.2ubuntu1 amd64 library to read and control CD-ROM
ii libcdparanoia0:amd64 3.10.2+debian-11 amd64 audio extraction tool for sampling CDs (library)
ii
libcdparanoia0:i386 3.10.2+debian-11 i386 audio extraction tool for sampling CDs (library)
ii libcdr-0.1-1:amd64 0.1.2-2ubuntu2 amd64 library for reading and converting Corel DRAW files
ii libcdt5 2.38.0-12ubuntu2.1 amd64 rich set of graph drawing tools - cdt library
ii libcgi-fast-perl 1:2.10-1 all CGI subclass for work with FCGI
ii libcgi-pm-perl 4.26-1 all module for Common Gateway Interface applications
ii libcglib3-java 3.1+dfsg-1 all code generation library for Java
ii
libcgmanager0:amd64 0.39-2ubuntu5 amd64 Central cgroup manager daemon (client library)
ii libcgraph6 2.38.0-12ubuntu2.1 amd64 rich set of graph drawing tools - cgraph library
ii libcheese-gtk25:amd64 3.18.1-2ubuntu3 amd64 tool to take pictures and videos from your webcam - widgets

ii libcheese8:amd64 3.18.1-2ubuntu3 amd64 tool to take pictures and videos from your webcam - base library
ii libchromaprint0:amd64 1.3-1 amd64 audio fingerprint library
ii libcilkrts5:amd64 5.4.0-6ubuntu1~16.04.4 amd64 Intel Cilk Plus language extensions (runtime)
ii libclang-common-3.8-dev 1:3.8-2ubuntu4 amd64 clang library - Common development package
ii libclang1-3.8:amd64 1:3.8-2ubuntu4 amd64 C interface to the clang library
ii libclass-accessor-perl 0.34-1 all Perl module that automatically generates accessors
ii libclassworlds-java 1.1-final-5 all framework for container developers requiring manipulation of ClassLoaders
ii libclone-perl 0.38-1build1 amd64 module for recursively copying Perl datatypes
ii libclucene-contribs1v5:amd64 2.3.3.4-4.1 amd64 language specific text analyzers (runtime)
ii libclucene-core1v5:amd64 2.3.3.4-4.1 amd64 core library for full-featured text search engine (runtime)
ii libclutter-1.0-0:amd64 1.24.2-1 amd64 Open GL based interactive canvas library
ii libclutter-1.0-common 1.24.2-1 all Open GL based interactive canvas library (common files)
ii libclutter-gst-3.0-0:amd64 3.0.18-1 amd64 Open GL based interactive canvas library GStreamer elements
ii libclutter-gtk-1.0-0:amd64 1.6.6-1 amd64 Open GL based interactive canvas library GTK+ widget
ii libcmis-0.5-5v5:amd64 0.5.1-2ubuntu2 amd64 CMIS protocol client library
ii libcogl-common 1.22.0-2 all Object oriented GL/GLES Abstraction/Utility Layer (common files)
ii libcogl-pango20:amd64 1.22.0-2 amd64 Object oriented GL/GLES Abstraction/Utility Layer
ii libcogl-path20:amd64 1.22.0-2 amd64 Object oriented GL/GLES Abstraction/Utility Layer
ii libcogl20:amd64 1.22.0-2 amd64 Object oriented GL/GLES Abstraction/Utility Layer
ii libcolamd2.9.1:amd64 1:4.4.6-1 amd64 column approximate minimum degree ordering library for sparse matrices
ii libcolord2:amd64 1.2.12-1ubuntu1 amd64 system service to manage device colour profiles -- runtime
ii libcolorhug2:amd64 1.2.12-1ubuntu1 amd64 library to access the ColorHug colourimeter -- runtime
ii libcolumbus1-common 1.1.0+15.10.20150806-0ubuntu4 all error tolerant matching engine - common files
ii libcolumbus1v5:amd64 1.1.0+15.10.20150806-0ubuntu4 amd64 error

tolerant matching engine - shared library
ii libcomerr2:amd64 1.42.13-1ubuntu1 amd64 common error description library
ii libcomerr2:i386 1.42.13-1ubuntu1 i386 common error description
library
ii libcommons-cli-java 1.3.1-3ubuntu1 all Command line arguments and options parsing library
ii libcommons-codec-java 1.10-1 all encoder and decoders such as Base64 and hexadecimal codec
ii libcommons-collections3-java 3.2.2-1 all Apache Commons Collections - Extended Collections API for Java
ii libcommons-httpclient-java 3.1-12 all Commons HTTPClient - Java library for creating HTTP clients
ii libcommons-io-java 2.4-2 all Common useful IO related classes
ii libcommons-lang-java 2.6-6ubuntu2
all Commons Lang - an extension of the java.lang package
ii libcommons-lang3-java 3.4-1 all Extension of the java.lang package (for Java 5+)
ii libcommons-logging-java 1.2-1+build1 all common wrapper interface for several logging APIs
ii libcommons-math-java 2.2-5 all Java lightweight mathematics and statistics components
ii libcommons-net-java 3.4-2ubuntu2 all Apache Commons Net - Java client API for basic Internet protocols
ii libcommons-net2-java 2.2-2 all internet protocol suite Java library
ii libcommons-parent-java
39-3 all Maven metadata for Apache Commons project
ii libcompizconfig0:amd64 1:0.9.12.2+16.04.20160823-0ubuntu1 amd64 Settings library for plugins - OpenCompositing Project
ii libcrack2:amd64 2.9.2-1build2 amd64 pro-active password checker library
ii libcroco3:amd64 0.6.11-1 amd64 Cascading Style Sheet (CSS) parsing and manipulation toolkit
ii libcryptsetup4:amd64 2:1.6.6-5ubuntu2 amd64 disk encryption support - shared library
ii libcrystalhd3:amd64 1:0.0~git20110715.fdd2f19-11build1 amd64 Crystal HD Video Decoder (shared library)
ii libcups2:amd64
2.1.3-4 amd64 Common UNIX Printing System(tm) - Core library
ii libcups2:i386 2.1.3-4 i386 Common UNIX Printing System(tm) - Core library
ii libcups2-dev:amd64 2.1.3-4 amd64 Common UNIX Printing System(tm) - Development files CUPS library
ii libcupscgi1:amd64 2.1.3-4 amd64 Common UNIX Printing System(tm) - CGI library

ii libcupsfilters1:amd64 1.8.3-2ubuntu3.1 amd64 OpenPrinting CUPS Filters - Shared library
ii libcupsimage2:amd64 2.1.3-4 amd64 Common UNIX Printing System(tm) - Raster image library
ii libcupsmime1:amd64 2.1.3-4 amd64 Common UNIX Printing System(tm) - MIME library
ii libcupsppdc1:amd64 2.1.3-4 amd64 Common UNIX Printing System(tm) - PPD manipulation library
ii libcurl3:amd64 7.47.0-1ubuntu2.2 amd64 easy-to-use client-side URL transfer library (OpenSSL flavour)
ii libcurl3-gnutls:amd64 7.47.0-1ubuntu2.2 amd64 easy-to-use client-side URL transfer library (GnuTLS flavour)
ii libcv-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 Translation package for libcv-dev
ii libcvaux-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 Translation package for libcvaux-dev
ii libdaemon0:amd64 0.14-6 amd64 lightweight C library for daemons - runtime library
ii libdata-alias-perl 1.20-1build1 amd64 module to create aliases instead of copies
ii libdatrie1:amd64 0.2.10-2 amd64 Double-array trie library
ii libdatrie1:i386 0.2.10-2 i386 Double-array trie library
ii libdb5.3:amd64 5.3.28-11 amd64 Berkeley v5.3 Database Libraries [runtime]
ii libdbus-1-3:amd64 1.10.6-1ubuntu3.3 amd64 simple interprocess messaging system (library)
ii libdbus-1-3:i386 1.10.6-1ubuntu3.3 i386 simple interprocess messaging system (library)
ii libdbus-glib-1-2:amd64 0.106-1 amd64 simple interprocess messaging system (GLib-based shared library)
ii libdbus-glib-1-2:i386 0.106-1 i386 simple interprocess messaging system (GLib-based shared library)
ii libdbusmenu-glib4:amd64 16.04.1+16.04.20160927-0ubuntu1 amd64 library for passing menus over DBus
ii libdbusmenu-gtk3-4:amd64 16.04.1+16.04.20160927-0ubuntu1 amd64 library for passing menus over DBus - GTK+ version
ii libdbusmenu-gtk4:amd64 16.04.1+16.04.20160927-0ubuntu1 amd64 library for passing menus over DBus - GTK+ version
ii libdbusmenu-qt2:amd64 0.9.3+16.04.20160218-0ubuntu1 amd64 Qt implementation of the DBusMenu protocol
ii libdbusmenu-qt2:i386 0.9.3+16.04.20160218-0ubuntu1 i386 Qt implementation of the DBusMenu protocol
ii libdbusmenu-qt5:amd64 0.9.3+16.04.20160218-0ubuntu1 amd64 Qt5 implementation of the DBusMenu protocol
ii libdc1394-22:amd64 2.2.4-1 amd64 high level programming interface for IEEE 1394 digital cameras

ii libdc1394-22-dev:amd64 2.2.4-1 amd64 high level programming interface for IEEE 1394 digital cameras - development
ii libdca0:amd64 0.0.5-7build1 amd64 decoding library for DTS Coherent Acoustics streams
ii libdconf1:amd64 0.24.0-2 amd64 simple configuration storage system - runtime library
ii libdconf1:i386 0.24.0-2 i386 simple configuration storage system - runtime library
ii libde265-0:amd64 1.0.2-2 amd64 Open H.265 video codec implementation
ii libdebconfclient0:amd64 0.198ubuntu1 amd64 Debian Configuration Management System (C-implementation library)
ii libdecoration0:amd64 1:0.9.12.2+16.04.20160823-0ubuntu1 amd64 Compiz window decoration library
ii libdee-1.0-4:amd64 1.2.7+15.04.20150304-0ubuntu2 amd64 model to synchronize multiple instances over DBus - shared lib
ii libdevmapper1.02.1:amd64 2:1.02.110-1ubuntu10 amd64 Linux Kernel Device Mapper userspace library
ii libdfu1:amd64 0.7.0-0ubuntu4.3 amd64 Firmware update daemon library for DFU support
ii libdigest-hmac-perl 1.03+dfsg-1 all module for creating standard message integrity checks
ii libdjvulibre-text 3.5.27.1-5 all Linguistic support files for libdjvulibre
ii libdjvulibre21:amd64 3.5.27.1-5 amd64 Runtime support for the DjVu
image format
ii libdmapsharing-3.0-2:amd64 2.9.34-1 amd64 DMAP client and server library - runtime
ii libdns-export162 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 Exported DNS Shared Library
ii libdns162:amd64 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 DNS Shared Library used by BIND
ii libdom4j-java 1.6.1+dfsg.3-2ubuntu1 all flexible XML framework for Java
ii libdotconf0:amd64 1.3-0.2 amd64 Configuration file parser library - runtime files
ii libdouble-conversion1v5:amd64 2.0.1-3ubuntu2 amd64 routines to convert IEEE floats to and from strings
ii libdoxia-core-java 1.1.4-3ubuntu1 all Doxia content generation framework (core)
ii libdpkg-perl 1.18.4ubuntu1.1 all Dpkg perl modules
ii libdrm-amdgpu1:amd64 2.4.67-1ubuntu0.16.04.2 amd64 Userspace interface to amdgpu-specific kernel DRM services -- runtime
ii libdrm-amdgpu1:i386 2.4.67-1ubuntu0.16.04.2 i386 Userspace interface to amdgpu-specific kernel DRM services -- runtime
ii libdrm-dev:amd64 2.4.67-1ubuntu0.16.04.2 amd64 Userspace

interface to kernel DRM services -- development files
ii libdrm-intel1:amd64 2.4.67-1ubuntu0.16.04.2 amd64 Userspace interface
to intel-specific kernel DRM services -- runtime
ii libdrm-intel1:i386 2.4.67-1ubuntu0.16.04.2 i386 Userspace interface to intel-specific kernel DRM services -- runtime
ii libdrm-nouveau2:amd64 2.4.67-1ubuntu0.16.04.2 amd64 Userspace interface to nouveau-specific kernel DRM services -- runtime
ii libdrm-nouveau2:i386 2.4.67-1ubuntu0.16.04.2 i386 Userspace interface to nouveau-specific kernel DRM services -- runtime
ii libdrm-radeon1:amd64 2.4.67-1ubuntu0.16.04.2 amd64 Userspace interface to radeon-specific kernel DRM services -- runtime
ii libdrm-radeon1:i386 2.4.67-1ubuntu0.16.04.2 i386 Userspace interface to radeon-specific kernel
DRM services -- runtime
ii libdrm2:amd64 2.4.67-1ubuntu0.16.04.2 amd64 Userspace interface to kernel DRM services -- runtime
ii libdrm2:i386 2.4.67-1ubuntu0.16.04.2 i386 Userspace interface to kernel DRM services -- runtime
ii libdv4:amd64 1.0.0-7 amd64 software library for DV format digital video (runtime lib)
ii libdv4:i386 1.0.0-7 i386 software library for DV format digital video (runtime lib)
ii libdvdnav4:amd64 5.0.3-1 amd64 DVD navigation library
ii libdvdread4:amd64 5.0.3-1 amd64
library for reading DVDs
ii libdw1:amd64 0.165-3ubuntu1 amd64 library that provides access to the DWARF debug information
ii libe-book-0.1-1:amd64 0.1.2-2ubuntu1 amd64 library for reading and converting various e-book formats
ii libeasymock-java 3.3.1+ds-3 all Java library to generate Mock Objects for given interfaces
ii libebackend-1.2-10:amd64 3.18.5-1ubuntu1 amd64 Utility library for evolution data servers
ii libebook-1.2-16:amd64 3.18.5-1ubuntu1 amd64 Client library for evolution address books
ii libebook-contacts-1.2-2:amd64 3.18.5-1ubuntu1
amd64 Client library for evolution contacts books
ii libecal-1.2-19:amd64 3.18.5-1ubuntu1 amd64 Client library for evolution calendars
ii libeclipse-aether-java 1.0.2-1 all Library to handle Java artifact repositories
ii libecryptfs1 111-0ubuntu1.1 amd64 ecryptfs cryptographic filesystem (library)
ii libedata-book-1.2-25:amd64 3.18.5-1ubuntu1 amd64 Backend library for evolution address books
ii libedata-cal-1.2-28:amd64 3.18.5-1ubuntu1 amd64 Backend library for evolution calendars

ii libedataserver-1.2-21:amd64 3.18.5-1ubuntu1 amd64 Utility library for evolution data servers
ii libedataserverui-1.2-1:amd64 3.18.5-1ubuntu1 amd64 Utility library for evolution data servers
ii libedit2:amd64 3.1-20150325-1ubuntu2 amd64 BSD editline and history libraries
ii libedit2:i386 3.1-20150325-1ubuntu2 i386 BSD editline and history libraries
ii libefivar0:amd64 0.23-2 amd64 Library to manage UEFI variables
ii libegl1-mesa:amd64 11.2.0-1ubuntu2.2 amd64 free implementation of the EGL API -- runtime
ii libegl1-mesa:i386 11.2.0-1ubuntu2.2 i386 free implementation of the EGL API -- runtime
ii libelf1:amd64 0.165-3ubuntu1 amd64 library to read and write ELF files
ii libelf1:i386 0.165-3ubuntu1 i386 library to read and write ELF files
ii libemail-valid-perl 1.198-1 all Perl module for checking the validity of Internet email addresses
ii libenchant1c2a:amd64 1.6.0-10.1build2 amd64 Wrapper library for various spell checker engines (runtime libs)
ii libenchant1c2a:i386 1.6.0-10.1build2 i386 Wrapper library for various spell checker engines (runtime libs)
ii libencode-locale-perl 1.05-1 all utility to determine the locale encoding
ii libeot0:amd64 0.01-3ubuntu1 amd64 Library for parsing/converting Embedded OpenType files
ii libepoxy0:amd64 1.3.1-1 amd64 OpenGL function pointer management library
ii liberror-perl 0.17-1.2 all Perl module for error/exception handling in an OO-ish way
ii libespeak1:amd64 1.48.04+dfsg-2 amd64 Multi-lingual software speech synthesizer: shared library
ii libestr0 0.1.10-1 amd64 Helper functions for handling strings (lib)
ii libetonyek-0.1-1:amd64 0.1.6-1ubuntu1 amd64 library for reading and converting Apple Keynote presentations
ii libevdev2:amd64 1.4.6+dfsg-1 amd64 wrapper library for evdev devices
ii libevdocument3-4:amd64 3.18.2-1ubuntu4 amd64 Document (PostScript, PDF) rendering library
ii libevent-2.0-5:amd64 2.0.21-stable-2 amd64 Asynchronous event notification library
ii libevview3-3:amd64 3.18.2-1ubuntu4 amd64 Document (PostScript, PDF) rendering library - Gtk+ widgets
ii libexempi3:amd64 2.2.2-2 amd64 library to parse XMP

metadata (Library)
ii libexif12:amd64
0.6.21-2 amd64 library to parse EXIF files
ii libexiv2-14:amd64 0.25-2.1 amd64 EXIF/IPTC metadata manipulation library
ii libexpat1:amd64 2.1.0-7ubuntu0.16.04.2 amd64 XML parsing C library - runtime library
ii libexpat1:i386 2.1.0-7ubuntu0.16.04.2 i386 XML parsing C library - runtime library
ii libexpat1-dev:amd64 2.1.0-7ubuntu0.16.04.2 amd64 XML parsing C library - development kit
ii libexporter-lite-perl 0.08-1 all lightweight subset of Exporter
ii libexporter-tiny-perl
0.042-1 all tiny exporter similar to Sub::Exporter
ii libexttextcat-2.0-0:amd64 3.4.4-1ubuntu3 amd64 Language detection library
ii libexttextcat-data 3.4.4-1ubuntu3 all Language detection library - data files
ii libfaad2:amd64 2.8.0~cvs20150510-1 amd64 freeware Advanced Audio Decoder - runtime files
ii libfakeroot:amd64 1.20.2-1ubuntu1 amd64 tool for simulating superuser privileges - shared libraries
ii libfcgi-perl 0.77-1build1 amd64 helper module for FastCGI
ii libfcitx-config4:amd64 1:4.2.9.1-1ubuntu1.16.04.2
amd64 Flexible Input Method Framework - configuration support library
ii libfcitx-gclient0:amd64 1:4.2.9.1-1ubuntu1.16.04.2 amd64 Flexible Input Method Framework - D-Bus client library for Glib
ii libfcitx-utils0:amd64 1:4.2.9.1-1ubuntu1.16.04.2 amd64 Flexible Input Method Framework - utility support library
ii libfdisk1:amd64 2.27.1-6ubuntu3.2 amd64 fdisk partitioning library
ii libffi-dev:amd64 3.2.1-4 amd64 Foreign Function Interface library (development files)
ii libffi6:amd64 3.2.1-4 amd64 Foreign Function Interface library runtime
ii libffi6:i386
3.2.1-4 i386 Foreign Function Interface library runtime
ii libfftw3-double3:amd64 3.3.4-2ubuntu1 amd64 Library for computing Fast Fourier Transforms - Double precision
ii libfftw3-single3:amd64 3.3.4-2ubuntu1 amd64 Library for computing Fast Fourier Transforms - Single precision
ii libfile-basedir-perl 0.07-1 all Perl module to use the freedesktop basedir specification
ii libfile-copy-recursive-perl 0.38-1 all Perl extension for recursively copying files and directories
ii libfile-desktopentry-perl 0.22-1 all

Perl module to handle freedesktop .desktop files
ii libfile-fcntllock-perl 0.22-3 amd64 Perl module for file locking with fcntl(2)
ii libfile-homedir-perl 1.00-1 all Perl module for finding user directories across platforms
ii libfile-listing-perl 6.04-1 all module to parse directory listings
ii libfile-mimeinfo-perl 0.27-1 all Perl module to determine file types
ii libfile-stripnondeterminism-perl 0.015-1 all Perl module for stripping non-determinism from files
ii libfile-which-perl 1.19-1 all Perl module for searching paths for executable programs
ii libfl-dev:amd64 2.6.0-11 amd64 static library for flex (a fast lexical analyzer generator)
ii libflac8:amd64 1.3.1-4 amd64 Free Lossless Audio Codec - runtime C library
ii libflac8:i386 1.3.1-4 i386 Free Lossless Audio Codec - runtime C library
ii libflite1:amd64 2.0.0-release-1 amd64 Small run-time speech synthesis engine - shared libraries
ii libfluidsynth1:amd64 1.1.6-3 amd64 Real-time MIDI software synthesizer (runtime library)
ii libfont-afm-perl 1.20-1 all Font::AFM - Interface to Adobe Font Metrics files
ii libfontconfig1:amd64 2.11.94-0ubuntu1.1 amd64 generic font configuration library - runtime
ii libfontconfig1:i386 2.11.94-0ubuntu1.1 i386 generic font configuration library - runtime
ii libfontconfig1-dev:amd64 2.11.94-0ubuntu1.1 amd64 generic font configuration library - development
ii libfontembed1:amd64 1.8.3-2ubuntu3.1 amd64 OpenPrinting CUPS Filters - Font Embed Shared library
ii libfontenc1:amd64 1:1.1.3-1 amd64 X11 font encoding library
ii libframe6:amd64 2.5.0daily13.06.05+16.04.20160809-0ubuntu1 amd64 Touch Frame Library
ii libfreehand-0.1-1:amd64 0.1.1-1ubuntu1 amd64 Library for parsing the FreeHand file format structure
ii libfreehep-export-java 2.1.1-2 all FreeHEP Export and Save As Library
ii libfreehep-graphics2d-java 2.1.1-4 all FreeHEP 2D Graphics Library
ii libfreehep-graphicsio-emf-java 2.1.1-emfplus+dfsg1-2 all FreeHEP Enhanced Metafile Format Driver
ii libfreehep-graphicsio-java 2.1.1-3 all FreeHEP GraphicsIO Base Library
ii libfreehep-graphicsio-pdf-java 2.1.1+dfsg-1

all FreeHEP Portable Document Format Driver
ii libfreehep-graphicsio-svg-java 2.1.1-3 all FreeHEP Scalable Vector Graphics Driver
ii libfreehep-graphicsio-tests-java 2.1.1+dfsg1-3 all FreeHEP GraphicsIO Test Library
ii libfreehep-io-java 2.0.2-4 all FreeHEP I/O library
ii libfreehep-swing-java 2.0.3-3 all FreeHEP swing extensions
ii libfreehep-util-java 2.0.2-5 all FreeHEP utility library
ii libfreehep-xml-java 2.1.2+dfsg1-3 all FreeHEP XML Library
ii libfreerdp-cache1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (cache library)
ii libfreerdp-client1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (client library)
ii libfreerdp-codec1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (codec library)
ii libfreerdp-common1.1.0:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (common library)
ii libfreerdp-core1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (core library)
ii libfreerdp-crypto1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol
library (freerdp-crypto library)
ii libfreerdp-gdi1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (GDI library)
ii libfreerdp-locale1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (locale library)
ii libfreerdp-plugins-standard:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 RDP client for Windows Terminal Services (plugins)
ii libfreerdp-primitives1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (primitives library)
ii libfreerdp-utils1.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Free Remote Desktop Protocol library (freerdp-utils library)
ii libfreetype6:amd64 2.6.1-0.1ubuntu2 amd64 FreeType 2 font engine, shared library files
ii libfreetype6:i386 2.6.1-0.1ubuntu2 i386 FreeType 2 font engine, shared library files
ii libfreetype6-dev:amd64 2.6.1-0.1ubuntu2 amd64 FreeType 2 font engine, development files
ii libfribidi0:amd64 0.19.7-1 amd64 Free Implementation of the Unicode BiDi algorithm
ii libfuse2:amd64 2.9.4-1ubuntu3.1 amd64 Filesystem in Userspace (library)
ii libfwup0:amd64 0.5-2ubuntu4 amd64 Library to manage UEFI firmware updates
ii libfwupd1:amd64 0.7.0-0ubuntu4.3 amd64 Firmware update daemon library
ii libgail-3-0:amd64 3.18.9-1ubuntu3.1 amd64 GNOME

Accessibility Implementation Library -- shared libraries
ii libgail-common:amd64 2.24.30-1ubuntu1 amd64 GNOME Accessibility Implementation Library -- common modules
ii libgail18:amd64 2.24.30-1ubuntu1 amd64 GNOME Accessibility Implementation Library -- shared libraries
ii libgbm1:amd64 11.2.0-1ubuntu2.2 amd64 generic buffer management API -- runtime
ii libgbm1:i386 11.2.0-1ubuntu2.2 i386 generic buffer management API -- runtime
ii libgc1c2:amd64 1:7.4.2-7.3 amd64 conservative garbage collector for C and C++
ii libgcab-1.0-0:amd64 0.7-1 amd64 Microsoft Cabinet file manipulation library
ii libgcc-4.9-dev:amd64 4.9.3-13ubuntu2 amd64 GCC support library (development files)
ii libgcc-5-dev:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GCC support library (development files)
ii libgcc1:amd64 1:6.0.1-0ubuntu1 amd64 GCC support library
ii libgcc1:i386 1:6.0.1-0ubuntu1 i386 GCC support library
ii libgck-1-0:amd64 3.18.0-1ubuntu1 amd64 Glib wrapper library for PKCS#11 - runtime
ii libgconf-2-4:amd64 3.2.6-3ubuntu6 amd64 GNOME configuration database system (shared libraries)
ii libgcr-3-common 3.18.0-1ubuntu1 all Library for Crypto UI related tasks - common files
ii libgcr-base-3-1:amd64 3.18.0-1ubuntu1 amd64 Library for Crypto related tasks
ii libgcr-ui-3-1:amd64 3.18.0-1ubuntu1 amd64 Library for Crypto UI related tasks
ii libgcrypt11-dev 1.5.4-3+really1.6.5-2ubuntu0.2 all transitional libgcrypt11-dev package
ii libgcrypt20:amd64 1.6.5-2ubuntu0.2 amd64 LGPL Crypto library - runtime library
ii libgcrypt20:i386 1.6.5-2ubuntu0.2 i386 LGPL Crypto library - runtime library
ii libgcrypt20-dev 1.6.5-2ubuntu0.2 amd64 LGPL Crypto library - development files
ii libgd3:amd64 2.1.1-4ubuntu0.16.04.5 amd64 GD Graphics Library
ii libgdata-common 0.17.4-1 all Library for accessing GData webservices - common data files
ii libgdata22:amd64 0.17.4-1 amd64 Library for accessing GData webservices - shared libraries
ii libgdbm3:amd64 1.8.3-13.1 amd64 GNU dbm database routines (runtime version)
ii libgdiplus 4.2-1ubuntu1 amd64 interface library for System.Drawing of Mono
ii libgdk-pixbuf2.0-0:amd64 2.32.2-1ubuntu1.2 amd64 GDK Pixbuf

library
ii libgdk-pixbuf2.0-0:i386 2.32.2-1ubuntu1.2 i386 GDK Pixbuf library
ii libgdk-pixbuf2.0-common 2.32.2-1ubuntu1.2 all GDK Pixbuf library - data files
ii libgdk-pixbuf2.0-dev 2.32.2-1ubuntu1.2 amd64 GDK Pixbuf library (development files)
ii libgee-0.8-2:amd64 0.18.0-1 amd64 GObject based collection and utility library
ii libgeis1:amd64 2.2.17+16.04.20160126-0ubuntu1 amd64 Gesture engine interface support
ii libgeoclue0:amd64 0.12.99-4ubuntu1 amd64 C API for GeoClue
ii libgeoclue0:i386 0.12.99-4ubuntu1 i386 C API for GeoClue
ii libgeocode-glib0:amd64 3.18.2-1 amd64 geocoding and reverse geocoding GLib library using Nominatim
ii libgeoip1:amd64 1.6.9-1 amd64 non-DNS IP-to-country resolver library
ii libgeonames0:amd64 0.2+16.04.20160321-0ubuntu1 amd64 Parse and query the geonames database dump
ii libgeronimo-interceptor-3.0-spec-java 1.0.1-3fakesync1 all Geronimo API implementation of the Interceptor 3.0 spec
ii libgetopt-tabular-perl 0.3-2 all table-driven argument parsing for Perl 5
ii libgettextpo-dev:amd64 0.19.7-2ubuntu3 amd64 GNU Internationalization library development files
ii libgettextpo0:amd64 0.19.7-2ubuntu3 amd64 GNU Internationalization library
ii libgexiv2-2:amd64 0.10.3-2 amd64 GObject-based wrapper around the Exiv2 library
ii libgfortran-5-dev:amd64 5.4.0-6ubuntu1~16.04.4 amd64 Runtime library for GNU Fortran applications (development files)
ii libgfortran3:amd64 5.4.0-6ubuntu1~16.04.4 amd64 Runtime library for GNU Fortran applications
ii libgif7:amd64 5.1.4-0.3~16.04 amd64 library for GIF images (library)
ii libgirepository-1.0-1:amd64 1.46.0-3ubuntu1 amd64 Library for handling GObject introspection data (runtime library)
ii libgl1-mesa-dev:amd64 11.2.0-1ubuntu2.2 amd64 free implementation of the OpenGL API -- GLX development files
ii libgl1-mesa-dri:amd64 11.2.0-1ubuntu2.2 amd64 free implementation of the OpenGL API -- DRI modules
ii libgl1-mesa-dri:i386 11.2.0-1ubuntu2.2 i386 free implementation of the OpenGL
API -- DRI modules
ii libgl1-mesa-glx:amd64 11.2.0-1ubuntu2.2 amd64 free implementation of the OpenGL API -- GLX runtime
ii libgl1-mesa-glx:i386 11.2.0-1ubuntu2.2 i386 free implementation

of the OpenGL API -- GLX runtime
ii libglapi-mesa:amd64 11.2.0-1ubuntu2.2 amd64 free implementation of the GL API -- shared library
ii libglapi-mesa:i386 11.2.0-1ubuntu2.2 i386 free implementation of the GL API -- shared library
ii libglew1.13:amd64 1.13.0-2 amd64 OpenGL Extension Wrangler - runtime environment
ii libglewmx1.13:amd64 1.13.0-2 amd64 OpenGL Extension Wrangler (Multiple Rendering Contexts)
ii libglib2.0-0:amd64 2.48.2-0ubuntu1 amd64 GLib library of C routines
ii libglib2.0-0:i386 2.48.2-0ubuntu1 i386 GLib library of C routines
ii libglib2.0-bin 2.48.2-0ubuntu1 amd64 Programs for the GLib library
ii libglib2.0-data 2.48.2-0ubuntu1 all Common files for GLib library
ii libglib2.0-dev 2.48.2-0ubuntu1 amd64 Development files for the GLib library
ii libglibmm-2.4-1v5:amd64 2.46.3-1 amd64 C++ wrapper for the GLib toolkit
(shared libraries)
ii libglu1-mesa:amd64 9.0.0-2.1 amd64 Mesa OpenGL utility library (GLU)
ii libgme0:amd64 0.6.0-3ubuntu0.16.04.1 amd64 Playback library for video game music files - shared library
ii libgmime-2.6-0:amd64 2.6.20-1 amd64 MIME message parser and creator library - runtime
ii libgmp-dev:amd64 2:6.1.0+dfsg-2 amd64 Multiprecision arithmetic library developers tools
ii libgmp10:amd64 2:6.1.0+dfsg-2 amd64 Multiprecision arithmetic library
ii libgmp10:i386 2:6.1.0+dfsg-2 i386 Multiprecision arithmetic library
ii libgmpxx4ldbl:amd64 2:6.1.0+dfsg-2 amd64 Multiprecision arithmetic library (C++ bindings)
ii libgnome-bluetooth13:amd64 3.18.2-1ubuntu2 amd64 GNOME Bluetooth tools - support library
ii libgnome-desktop-3-12:amd64 3.18.2-1ubuntu1 amd64 Utility library for loading .desktop files - runtime files
ii libgnome-keyring-common 3.12.0-1build1 all GNOME keyring services library - data files
ii libgnome-keyring0:amd64 3.12.0-1build1 amd64 GNOME keyring services library
ii libgnome-menu-3-0:amd64 3.13.3-6ubuntu3.1 amd64 GNOME implementation
of the freedesktop menu specification
ii libgnomekbd-common 3.6.0-1ubuntu2 all GNOME library to

manage keyboard configuration - common files
ii libgnomekbd8:amd64 3.6.0-1ubuntu2 amd64 GNOME library to manage keyboard configuration - shared library
ii libgnutls-openssl27:amd64 3.4.10-4ubuntu1.2 amd64 GNU TLS library - OpenSSL wrapper
ii libgnutls30:amd64 3.4.10-4ubuntu1.2 amd64 GNU TLS library - main runtime library
ii libgnutls30:i386 3.4.10-4ubuntu1.2 i386 GNU TLS library - main runtime library
ii libgoa-1.0-0b:amd64 3.18.3-1ubuntu2 amd64 library for GNOME Online Accounts
ii libgoa-1.0-common 3.18.3-1ubuntu2 all library for GNOME Online Accounts - common files
ii libgom-1.0-0:amd64 0.3.1-1 amd64 Object mapper from GObjects to SQLite
ii libgom-1.0-common 0.3.1-1 all libgom architecture-independent files
ii libgomp1:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GCC OpenMP (GOMP) support library
ii libgpg-error-dev 1.21-2ubuntu1 amd64 library for common error values and messages in GnuPG components (development)
ii libgpg-error0:amd64 1.21-2ubuntu1 amd64 library for common error values and messages in GnuPG components
ii libgpg-error0:i386 1.21-2ubuntu1 i386 library for common error values and messages in GnuPG components
ii libgpgme11:amd64 1.6.0-1 amd64 GPGME - GnuPG Made Easy (library)
ii libgphoto2-6:amd64 2.5.9-3 amd64 gphoto2 digital camera library
ii libgphoto2-l10n 2.5.9-3 all gphoto2 digital camera library - localized messages
ii libgphoto2-port12:amd64 2.5.9-3 amd64 gphoto2 digital camera port library
ii libgpm2:amd64 1.20.4-6.1 amd64 General Purpose Mouse - shared library
ii libgpm2:i386 1.20.4-6.1 i386 General Purpose Mouse - shared library
ii libgpod-common 0.8.3-6ubuntu2 amd64 common files for libgpod
ii libgpod4:amd64 0.8.3-6ubuntu2 amd64 library to read and write songs and artwork to an iPod
ii libgrail6 3.1.0+16.04.20160125-0ubuntu1 amd64 Gesture Recognition And Instantiation Library
ii libgraphite2-3:amd64 1.3.6-1ubuntu1 amd64 Font rendering engine for Complex Scripts -- library
ii libgraphite2-3:i386 1.3.6-1ubuntu1 i386 Font rendering engine for Complex Scripts -- library
ii libgrilo-0.2-1:amd64 0.2.15-1 amd64 Framework for

discovering and browsing media - Shared libraries
ii libgs9:amd64 9.18~dfsg~0-0ubuntu2.3 amd64 interpreter for the PostScript language and for PDF - Library
ii libgs9-common 9.18~dfsg~0-0ubuntu2.3 all interpreter for the PostScript language and for PDF - common files
ii libgsettings-qt1:amd64 0.1+16.04.20160329-0ubuntu1 amd64 Library to access GSettings from Qt
ii libgsl2:amd64 2.1+dfsg-2 amd64 GNU Scientific Library (GSL) -- library package
ii libgsm1:amd64
1.0.13-4 amd64 Shared libraries for GSM speech compressor
ii libgssapi-krb5-2:amd64 1.13.2+dfsg-5ubuntu1 amd64 MIT Kerberos runtime libraries - krb5 GSS-API Mechanism
ii libgssapi-krb5-2:i386 1.13.2+dfsg-5ubuntu1 i386 MIT Kerberos runtime libraries - krb5 GSS-API Mechanism
ii libgssapi3-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - GSSAPI support library
ii libgstreamer-plugins-bad1.0-0:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer development files for libraries from the "bad" set
ii libgstreamer-plugins-base1.0-0:amd64 1.8.2-1ubuntu0.2 amd64 GStreamer libraries
from the "base" set
ii libgstreamer-plugins-base1.0-0:i386 1.8.2-1ubuntu0.2 i386 GStreamer libraries from the "base" set
ii libgstreamer-plugins-good1.0-0:amd64 1.8.2-1ubuntu0.3 amd64 GStreamer development files for libraries from the "good" set
ii libgstreamer-plugins-good1.0-0:i386 1.8.2-1ubuntu0.3 i386 GStreamer development files for libraries from the "good" set
ii libgstreamer1.0-0:amd64 1.8.2-1~ubuntu1 amd64 Core GStreamer libraries and elements
ii libgstreamer1.0-0:i386 1.8.2-1~ubuntu1 i386 Core GStreamer libraries and elements
ii libgtk-3-0:amd64 3.18.9-1ubuntu3.1 amd64
GTK+ graphical user interface library
ii libgtk-3-bin 3.18.9-1ubuntu3.1 amd64 programs for the GTK+ graphical user interface library
ii libgtk-3-common 3.18.9-1ubuntu3.1 all common files for the GTK+ graphical user interface library
ii libgtk2.0-0:amd64 2.24.30-1ubuntu1 amd64 GTK+ graphical user interface library
ii libgtk2.0-0:i386 2.24.30-1ubuntu1 i386 GTK+ graphical user interface library
ii libgtk2.0-bin 2.24.30-1ubuntu1 amd64 programs for the GTK+ graphical user interface library
ii libgtk2.0-common 2.24.30-1ubuntu1
all common files for the GTK+ graphical user interface library
ii libgtk2.0-dev 2.24.30-1ubuntu1 amd64 development files for

the GTK+ library
ii libgtkglext1:amd64 1.2.0-3.2fakesync1ubuntu1 amd64 OpenGL Extension to GTK+ (shared libraries)
ii libgtkmm-3.0-1v5:amd64 3.18.0-1 amd64 C++ wrappers for GTK+ (shared libraries)
ii libgtksourceview-3.0-1:amd64 3.18.2-1 amd64 shared libraries for the GTK+ syntax highlighting widget
ii libgtksourceview-3.0-common 3.18.2-1 all common files for the GTK+ syntax highlighting widget
ii libgtkspell3-3-0:amd64 3.0.7-2 amd64 spell-checking addon for GTK+'s TextView widget
ii libgtop-2.0-10:amd64 2.32.0-1 amd64 gtop system monitoring library (shared)
ii libgtop2-common 2.32.0-1 all gtop system monitoring library (common)
ii libguava-java 19.0-1 all Suite of Google common libraries for Java
ii libgucharmap-2-90-7:amd64 1:3.18.2-1ubuntu1 amd64 Unicode browser widget library (shared library)
ii libgudev-1.0-0:amd64 1:230-2 amd64 GObject-based wrapper library for libudev
ii libgudev-1.0-0:i386 1:230-2 i386 GObject-based wrapper library for libudev
ii libguice-java 4.0-2 all lightweight dependency injection framework for Java 5 and above
ii libgusb2:amd64 0.2.9-0ubuntu1 amd64 GLib wrapper around libusb1
ii libgutenprint2 5.2.11-1 amd64 runtime for the Gutenprint printer driver library
ii libgvc6 2.38.0-12ubuntu2.1 amd64 rich set of graph drawing tools - gvc library
ii libgvpr2 2.38.0-12ubuntu2.1 amd64 rich set of graph drawing tools - gvpr library
ii libgweather-3-6:amd64 3.18.2-0ubuntu0.1 amd64 GWeather shared library
ii libgweather-common 3.18.2-0ubuntu0.1 all GWeather common files
ii libgxps2:amd64 0.2.3.2-1 amd64 handling and rendering XPS documents (library)
ii libhamcrest-java 1.3-5ubuntu1 all library of matchers for building test expressions
ii libhardware2 0.1.0+git20151016+6d424c9-0ubuntu7 amd64 Library to provide access to the Android libhardware HAL
ii libharfbuzz-dev 1.0.1-1ubuntu0.1 amd64 Development files for OpenType text shaping engine
ii libharfbuzz-gobject0:amd64 1.0.1-1ubuntu0.1 amd64 OpenType text shaping engine ICU backend (GObject library)
ii libharfbuzz-icu0:amd64 1.0.1-1ubuntu0.1 amd64 OpenType text

shaping engine ICU backend
ii libharfbuzz-icu0:i386 1.0.1-1ubuntu0.1 i386 OpenType text shaping engine ICU backend
ii libharfbuzz0b:amd64 1.0.1-1ubuntu0.1 amd64 OpenType text shaping engine (shared library)
ii libharfbuzz0b:i386 1.0.1-1ubuntu0.1 i386 OpenType text shaping engine (shared library)
ii libhcrypto4-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - crypto library
ii libheimbase1-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - Base library
ii libheimntlm0-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - NTLM support library
ii libhighgui-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 Translation package for libhighgui-dev
ii libhogweed4:amd64 3.2-1ubuntu0.16.04.1 amd64 low level cryptographic library (public-key cryptos)
ii libhogweed4:i386 3.2-1ubuntu0.16.04.1 i386 low level cryptographic library (public-key cryptos)
ii libhpmud0:amd64 3.16.3+repack0-1 amd64 HP Multi-Point Transport Driver (hpmud) run-time libraries
ii libhtml-form-perl 6.03-1 all module that represents an HTML form element
ii libhtml-format-perl 2.11-2 all module for transforming HTML into various formats
ii libhtml-parser-perl 3.72-1 amd64 collection of modules that parse HTML text documents
ii libhtml-tagset-perl 3.20-2 all Data tables pertaining to HTML
ii libhtml-tree-perl 5.03-2 all Perl module to represent and create HTML syntax trees
ii libhttp-cookies-perl 6.01-1 all HTTP cookie jars
ii libhttp-daemon-perl 6.01-1 all simple http server class
ii libhttp-date-perl 6.02-1 all module of date conversion routines
ii libhttp-message-perl 6.11-1 all perl interface to HTTP style messages
ii libhttp-negotiate-perl 6.00-2 all implementation of content negotiation
ii libhttpclient-java 4.5.1-1 all HTTP/1.1 compliant HTTP agent implementation
ii libhttpcore-java 4.4.4-1 all set of low level HTTP transport components for Java
ii libhud2:amd64 14.10+16.04.20160415-0ubuntu1 amd64 library for exporting items to the Unity HUD
ii libhunspell-1.3-0:amd64 1.3.3-4ubuntu1 amd64 spell checker and morphological analyzer (shared library)

ii libhunspell-1.3-0:i386 1.3.3-4ubuntu1 i386 spell checker and morphological analyzer (shared library)
ii libhx509-5-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - X509 support library
ii libhybris 0.1.0+git20151016+6d424c9-0ubuntu7 amd64 Allows to run bionic-based HW adaptations in glibc systems - libs
ii libhybris-common1 0.1.0+git20151016+6d424c9-0ubuntu7 amd64 Common library that contains the Android linker and custom hooks
ii libhyphen0:amd64 2.8.8-2ubuntu1 amd64 ALTLinux hyphenation library - shared library
ii libibus-1.0-5:amd64 1.5.11-1ubuntu2 amd64 Intelligent Input Bus - shared library
ii libical1a:amd64 1.0.1-0ubuntu2 amd64 iCalendar library implementation in C (runtime)
ii libice-dev:amd64 2:1.0.9-1 amd64 X11 Inter-Client Exchange library (development headers)
ii libice6:amd64 2:1.0.9-1 amd64 X11 Inter-Client Exchange library
ii libice6:i386 2:1.0.9-1 i386 X11 Inter-Client Exchange library
ii libicu-dev:amd64 55.1-7 amd64 Development files for International Components for Unicode
ii libicu55:amd64 55.1-7 amd64 International Components for Unicode
ii libicu55:i386 55.1-7 i386 International Components for Unicode
ii libidn11:amd64 1.32-3ubuntu1.1 amd64 GNU Libidn library, implementation of IETF IDN specifications
ii libidn11:i386 1.32-3ubuntu1.1 i386 GNU Libidn library, implementation of IETF IDN specifications
ii libido3-0.1-0:amd64 13.10.0+16.04.20161028-0ubuntu1 amd64 Shared library providing extra
gtk menu items for display in
ii libiec61883-0:amd64 1.2.0-0.2 amd64 an partial implementation of IEC 61883
ii libiec61883-0:i386 1.2.0-0.2 i386 an partial implementation of IEC 61883
ii libieee1284-3:amd64 0.2.11-12 amd64 cross-platform library for parallel port access
ii libijs-0.35:amd64 0.35-12 amd64 IJS raster image transport protocol: shared library
ii libilmbase-dev 2.2.0-11ubuntu2 amd64 development files for IlmBase
ii libilmbase12:amd64 2.2.0-11ubuntu2 amd64 several utility libraries

from ILM used by OpenEXR
ii libimobiledevice6:amd64 1.2.0+dfsg-3~ubuntu0.2 amd64 Library for communicating with the iPhone and iPod Touch
ii libindicator3-7 12.10.2+16.04.20151208-0ubuntu1 amd64 panel indicator applet - shared library
ii libindicator7 12.10.2+16.04.20151208-0ubuntu1 amd64 panel indicator applet - shared library
ii libinput10:amd64 1.2.3-1ubuntu1 amd64 input device management and event handling library - shared library
ii libio-html-perl 1.001-1 all open an HTML file with automatic charset detection
ii libio-pty-perl 1:1.08-1.1build1 amd64 Perl module for pseudo tty IO
ii libio-socket-inet6-perl 2.72-2 all object interface for AF_INET6 domain sockets
ii libio-socket-ssl-perl 2.024-1 all Perl module implementing object oriented interface to SSL sockets
ii libio-string-perl 1.08-3 all Emulate IO::File interface for in-core strings
ii libipc-run-perl 0.94-1 all Perl module for running processes
ii libipc-system-simple-perl 1.25-3 all Perl module to run commands simply, with detailed diagnostics
ii libisc-export160 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 Exported ISC Shared Library
ii libisc160:amd64 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 ISC Shared Library used by BIND
ii libisccc140:amd64 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 Command Channel Library used by BIND
ii libisccfg140:amd64 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 Config File Handling Library used by BIND
ii libisl15:amd64 0.16.1-1 amd64 manipulating sets and relations of integer points bounded by linear constraints
ii libitm1:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GNU Transactional Memory Library
ii libiw30:amd64 30~pre9-8ubuntu1 amd64 Wireless tools - library
ii libjack-jackd2-0:amd64 1.9.10+20150825git1ed50c92~dfsg-1ubuntu1 amd64 JACK Audio Connection Kit (libraries)
ii libjack-jackd2-0:i386 1.9.10+20150825git1ed50c92~dfsg-1ubuntu1 i386 JACK Audio Connection Kit (libraries)
ii libjas-java 2.5.4408-1 all Java object-oriented type-safe Algebra System
ii libjas-plotter-java 2.2.6+dfsg1-2 all JAS(2) Plotter graphic library
ii libjasper-dev 1.900.1-debian1-2.4ubuntu1 amd64 Development files for the JasPer JPEG-2000 library
ii libjasper1:amd64 1.900.1-debian1-2.4ubuntu1 amd64

JasPer JPEG-2000 runtime library
ii libjavascriptcoregtk-1.0-0:i386 2.4.11-0ubuntu0.1 i386 JavaScript engine library from WebKitGTK+
ii libjavascriptcoregtk-4.0-18:amd64 2.14.3-0ubuntu0.16.04.1 amd64 JavaScript engine library from WebKitGTK+
ii libjavascriptcoregtk-4.0-18:i386 2.14.3-0ubuntu0.16.04.1 i386 JavaScript engine library from WebKitGTK+
ii libjaxen-java 1.1.6-1ubuntu1 all Java XPath engine
ii libjaxp1.3-java 1.3.05-2ubuntu3 all Java XML parser and transformer APIs (DOM, SAX, JAXP, TrAX)
ii libjbig-dev:amd64 2.1-3.1 amd64 JBIGkit development files
ii libjbig0:amd64 2.1-3.1 amd64 JBIGkit libraries
ii libjbig0:i386 2.1-3.1 i386 JBIGkit libraries
ii libjbig2dec0 0.12+20150918-1 amd64 JBIG2 decoder library - shared libraries
ii libjcommon-java 1.0.16-5 all General Purpose library for Java
ii libjdom1-java 1.1.3-1 all lightweight and fast library using XML
ii libjetty-java 6.1.26-5 all Java servlet engine and webserver -- core libraries
ii libjfreechart-java 1.0.13-8 all Chart library for Java
ii libjfugue-java 4.0.3-3 all Java API for music programming
ii libjlatexmath-java 1.0.3-1 all Implementation of LaTeX math mode wrote in Java
ii libjpeg-dev:amd64 8c-2ubuntu8 amd64 Independent JPEG Group's JPEG runtime library (dependency package)
ii libjpeg-turbo8:amd64 1.4.2-0ubuntu3 amd64 IJG JPEG compliant runtime library.
ii libjpeg-turbo8:i386 1.4.2-0ubuntu3 i386 IJG JPEG compliant runtime library.
ii libjpeg-turbo8-dev:amd64 1.4.2-0ubuntu3 amd64 Development files for the IJG JPEG library
ii libjpeg62:i386 1:6b2-2 i386 Independent JPEG Group's JPEG runtime library (version 6.2)
ii libjpeg8:amd64 8c-2ubuntu8 amd64 Independent JPEG Group's JPEG runtime library (dependency package)
ii libjpeg8:i386 8c-2ubuntu8 i386 Independent JPEG Group's JPEG runtime library (dependency package)
ii libjpeg8-dev:amd64 8c-2ubuntu8 amd64 Independent JPEG Group's JPEG runtime library (dependency package)
ii libjs-inherits 2.0.1-3 all Exposes inherits function from Node.js

environment
ii libjs-jquery 1.11.3+dfsg-4 all JavaScript library for dynamic web applications
ii libjs-modernizr 2.6.2+ds1-1ubuntu1 all JavaScript library to detect HTML5 and CSS3 features in the user's browser
ii libjs-node-uuid 1.4.0-1 all simple, fast generation of RFC4122 UUIDs - JavaScript library
ii libjs-sphinxdoc 1.3.6-2ubuntu1 all JavaScript support for Sphinx documentation
ii libjs-underscore 1.7.0~dfsg-1ubuntu1 all JavaScript's functional programming helper library
ii libjsch-java 0.1.53-1ubuntu1 all Java implementation of the SSH2 protocol
ii libjson-c2:amd64 0.11-4ubuntu2 amd64 JSON manipulation library - shared library
ii libjson-c2:i386 0.11-4ubuntu2 i386 JSON manipulation library - shared library
ii libjson-glib-1.0-0:amd64 1.1.2-0ubuntu1 amd64 GLib JSON manipulation library
ii libjson-glib-1.0-common 1.1.2-0ubuntu1 all GLib JSON manipulation library (common files)
ii libjsoncpp1:amd64 1.7.2-1 amd64 library for reading and writing JSON for C++
ii libjsoup-java 1.8.3-1 all Java HTML parser that makes sense of real-world HTML soup
ii libjsr305-java 0.1~+svn49-9 all Java library that provides annotations for software defect detection
ii libk5crypto3:amd64 1.13.2+dfsg-5ubuntu1 amd64 MIT Kerberos runtime libraries - Crypto Library
ii libk5crypto3:i386 1.13.2+dfsg-5ubuntu1 i386 MIT Kerberos runtime libraries - Crypto Library
ii libkate1:amd64 0.4.1-7 amd64 Codec for karaoke and text encapsulation
ii libkeyutils1:amd64 1.5.9-8ubuntu1 amd64 Linux Key Management Utilities (library)
ii libkeyutils1:i386 1.5.9-8ubuntu1 i386 Linux Key Management Utilities (library)
ii libklibc 2.0.4-8ubuntu1.16.04.2 amd64 minimal libc subset for use with initramfs
ii libkmod2:amd64 22-1ubuntu4 amd64 libkmod shared library
ii libkpathsea6:amd64 2015.20160222.37495-1 amd64 TeX Live: path search library for TeX (runtime part)
ii libkrb5-26-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - libraries
ii libkrb5-3:amd64 1.13.2+dfsg-5ubuntu1 amd64 MIT Kerberos runtime libraries
ii libkrb5-3:i386 1.13.2+dfsg-5ubuntu1

i386 MIT Kerberos runtime libraries
ii libkrb5support0:amd64 1.13.2+dfsg-5ubuntu1 amd64 MIT Kerberos runtime libraries - Support library
ii libkrb5support0:i386 1.13.2+dfsg-5ubuntu1 i386 MIT Kerberos runtime libraries - Support library
ii libksba8:amd64 1.3.3-1ubuntu0.16.04.1 amd64 X.509 and CMS support library
ii liblangtag-common 0.5.7-2ubuntu1 all library to access tags for identifying languages -- data
ii liblangtag1:amd64 0.5.7-2ubuntu1 amd64 library to access tags for identifying languages
ii liblapack-dev 3.6.0-2ubuntu2 amd64 Library of linear algebra routines 3 - static version
ii liblapack3 3.6.0-2ubuntu2 amd64 Library of linear algebra routines 3 - shared version
ii liblcms2-2:amd64 2.6-3ubuntu2 amd64 Little CMS 2 color management library
ii liblcms2-2:i386 2.6-3ubuntu2 i386 Little CMS 2 color management library
ii liblcms2-utils 2.6-3ubuntu2 amd64 Little CMS 2 color management library (utilities)
ii libldap-2.4-2:amd64 2.4.42+dfsg-2ubuntu3.1 amd64 OpenLDAP libraries
ii libldb1:amd64 2:1.1.24-1ubuntu3 amd64 LDAP-like embedded database - shared library
ii liblightdm-gobject-1-0:amd64 1.18.3-0ubuntu1 amd64 LightDM GObject client library
ii liblircclient0:amd64 0.9.0-0ubuntu6 amd64 infra-red remote control support - client library
ii liblist-moreutils-perl 0.413-1build1 amd64 Perl module with additional list functions not found in List::Util
ii liblldb-3.8 1:3.8-2ubuntu4 amd64 Next generation, high-performance debugger, library
ii libllvm3.8:amd64 1:3.8-2ubuntu4 amd64 Modular compiler and toolchain technologies, runtime library
ii libllvm3.8:i386 1:3.8-2ubuntu4 i386 Modular compiler and toolchain technologies, runtime library
ii liblocale-gettext-perl 1.07-1build1 amd64 module using libc functions for internationalization in Perl
ii liblog4j1.2-java 1.2.17-7ubuntu1 all Logging library for java
ii liblouis-data 2.6.4-2 all Braille translation library - data
ii liblouis9:amd64 2.6.4-2 amd64 Braille translation library - shared libs
ii liblouisutdml-bin 2.5.0-3 amd64 Braille UTDML translation utilities
ii liblouisutdml-data 2.5.0-3 all Braille UTDML translation library - data
ii liblouisutdml6:amd64 2.5.0-3 amd64 Braille UTDML

translation library - shared libs
ii liblqr-1-0:amd64 0.4.2-2 amd64 converts plain array images into multi-size representation
ii liblsan0:amd64 5.4.0-6ubuntu1~16.04.4 amd64 LeakSanitizer -- a memory leak detector (runtime)
ii libltdl7:amd64 2.4.6-0.1 amd64 System independent dlopen wrapper for GNU libtool
ii liblua5.1-0:amd64 5.1.5-8ubuntu1 amd64 Shared library for the Lua interpreter version 5.1
ii liblua5.2-0:amd64 5.2.4-1ubuntu1 amd64 Shared library for the Lua interpreter version 5.2
ii libluajit-5.1-2:amd64 2.0.4+dfsg-1 amd64 Just in time compiler for Lua - library version
ii libluajit-5.1-common 2.0.4+dfsg-1 all Just in time compiler for Lua - common files
ii liblwp-mediatypes-perl 6.02-1 all module to guess media type for a file or a URL
ii liblwp-protocol-https-perl 6.06-2 all HTTPS driver for LWP::UserAgent
ii liblwres141:amd64 1:9.10.3.dfsg.P4-8ubuntu1.4 amd64 Lightweight Resolver Library used by BIND
ii liblz4-1:amd64 0.0~r131-2ubuntu2 amd64 Fast LZ compression algorithm library - runtime
ii liblzma-dev:amd64 5.1.1alpha+20120614-2ubuntu2 amd64 XZ-format compression library - development files
ii liblzma5:amd64 5.1.1alpha+20120614-2ubuntu2 amd64 XZ-format compression library
ii liblzma5:i386 5.1.1alpha+20120614-2ubuntu2 i386 XZ-format compression library
ii liblzo2-2:amd64 2.08-1.2 amd64 data compression library
ii libmad0:amd64 0.15.1b-8ubuntu1 amd64 MPEG audio decoder library
ii libmagic1:amd64 1:5.25-2ubuntu1 amd64 File type determination library using "magic" numbers
ii libmagickcore-6.q16-2:amd64 8:6.8.9.9-7ubuntu5.3 amd64 low-level image manipulation library -- quantum depth Q16
ii libmagickcore-6.q16-2-extra:amd64 8:6.8.9.9-7ubuntu5.3 amd64 low-level image manipulation library - extra codecs (Q16)
ii libmagickwand-6.q16-2:amd64 8:6.8.9.9-7ubuntu5.3 amd64 image manipulation library
ii libmail-sendmail-perl 0.79.16-1 all Send email from a perl script
ii libmailtools-perl 2.13-1 all Manipulate email in perl programs
ii libmaven-parent-java 21-2

all Maven metadata for Apache Maven itself
ii libmaven2-core-java 2.2.1-24 all Core libraries for Maven2
ii libmaven3-core-java 3.3.9-3 all Core libraries for Maven 3
ii libmbim-glib4:amd64 1.12.2-2ubuntu1 amd64 Support library to use the MBIM protocol
ii libmbim-proxy 1.12.2-2ubuntu1 amd64 Proxy to communicate with MBIM ports
ii libmedia1 0.1.0+git20151016+6d424c9-0ubuntu7 amd64 Library to provide access to the Android Media HAL
ii libmediaart-2.0-0:amd64 1.9.0-2 amd64
media art extraction and cache management library
ii libmessaging-menu0:amd64 13.10.1+15.10.20150505-0ubuntu1 amd64 Messaging Menu - shared library
ii libmetacity-private3a:amd64 1:3.18.7-0ubuntu0.2 amd64 library for the Metacity window manager
ii libmhash2:amd64 0.9.9.9-7 amd64 Library for cryptographic hashing and message authentication
ii libmimic0:amd64 1.0.4-2.3 amd64 A video codec for Mimic V2.x content
ii libminiupnpc10:amd64 1.9.20140610-2ubuntu2 amd64 UPnP IGD client lightweight library
ii libmirclient9:amd64 0.21.0+16.04.20160330-0ubuntu1 amd64 Display server for Ubuntu - client library
ii libmircommon5:amd64 0.21.0+16.04.20160330-0ubuntu1 amd64 Display server for Ubuntu - shared library
ii libmirprotobuf3:amd64 0.21.0+16.04.20160330-0ubuntu1 amd64 Display server for Ubuntu - RPC definitions
ii libmjpegutils-2.1-0 1:2.1.0+debian-4 amd64 MJPEG capture/editing/replay and MPEG encoding toolset (library)
ii libmm-glib0:amd64 1.4.12-1ubuntu1 amd64 D-Bus service for managing modems - shared libraries
ii libmms0:amd64 0.6.4-1 amd64 MMS stream protocol library - shared library
ii libmng2:amd64 2.0.2-0ubuntu3
amd64 Multiple-image Network Graphics library
ii libmng2:i386 2.0.2-0ubuntu3 i386 Multiple-image Network Graphics library
ii libmnl0:amd64 1.0.3-5 amd64 minimalistic Netlink communication library
ii libmodplug1:amd64 1:0.8.8.5-2 amd64 shared libraries for mod music based on ModPlug
ii libmono-2.0-dev 4.2.1.102+dfsg2-7ubuntu4 amd64 Mono JIT library - Development files (Default version)
ii libmono-accessibility4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Accessibility library (for CLI 4.0)
ii libmono-c5-1.1-cil 4.2.1.102+dfsg2-7ubuntu4
all Mono C5 library
ii libmono-cairo4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Cairo library

(for CLI 4.0)
ii libmono-cecil-private-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono.Cecil library
ii libmono-cil-dev 4.2.1.102+dfsg2-7ubuntu4 all Mono Base Class Libraries (BCL) - Development files
ii libmono-codecontracts4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono.CodeContracts library (for CLI 4.0)
ii libmono-compilerservices-symbolwriter4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono.CompilerServices.SymbolWriter library (for CLI 4.0)
ii libmono-corlib4.5-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono core library (for CLI 4.5)
ii libmono-cscompmgd0.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono cscompmgd library (for CLI 4.0)
ii libmono-csharp4.0c-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono.CSharp library (for CLI 4.0)
ii libmono-custommarshalers4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono CustomMarshalers library (for CLI 4.0)
ii libmono-data-tds4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Data Library (for CLI 4.0)
ii libmono-db2-1.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono DB2 library
ii libmono-debugger-soft4.0a-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Soft Debugger library (for CLI 4.0)
ii libmono-http4.0-cil
4.2.1.102+dfsg2-7ubuntu4 all Mono.Http library (for CLI 4.0)
ii libmono-i18n-cjk4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono I18N.CJK library (for CLI 4.0)
ii libmono-i18n-mideast4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono I18N.MidEast library (for CLI 4.0)
ii libmono-i18n-other4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono I18N.Other library (for CLI 4.0)
ii libmono-i18n-rare4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono I18N.Rare library (for CLI 4.0)
ii libmono-i18n-west4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono I18N.West library (for CLI 4.0)
ii libmono-i18n4.0-all 4.2.1.102+dfsg2-7ubuntu4
all Mono I18N libraries metapackage (for CLI 4.0)
ii libmono-i18n4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono I18N base library (for CLI 4.0)
ii libmono-ldap4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono LDAP library (for CLI 4.0)
ii libmono-management4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Management library (for CLI 4.0)
ii libmono-messaging-rabbitmq4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Messaging RabbitMQ library (for CLI 4.0)
ii libmono-messaging4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Messaging library (for CLI 4.0)
ii libmono-microsoft-build-engine4.0-cil 4.2.1.102+dfsg2-7ubuntu4

all Mono Microsoft.Build.Engine library (for CLI 4.0)
ii libmono-microsoft-build-framework4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Microsoft.Build.Framework library (for CLI 4.0)
ii libmono-microsoft-build-tasks-v4.0-4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Microsoft.Build.Tasks.v4.0 library (for CLI 4.0)
ii libmono-microsoft-build-utilities-v4.0-4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Microsoft.Build.Utilities.v4.0 library (for CLI 4.0)
ii libmono-microsoft-build4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Microsoft.Build library (for CLI 4.0)
ii libmono-microsoft-csharp4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Microsoft.CSharp library (for CLI 4.0)
ii libmono-microsoft-visualc10.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Microsoft.VisualC library (for CLI 4.0)
ii libmono-microsoft-web-infrastructure1.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Microsoft.Web.Infrastructure library (for CLI 4.0)
ii libmono-oracle4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Oracle library (for CLI 4.0)
ii libmono-parallel4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono.Parallel library (for CLI 4.0)
ii libmono-peapi4.0a-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono PEAPI library (for CLI 4.0)
ii libmono-posix4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono.Posix library (for CLI 4.0)
ii libmono-rabbitmq4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono RabbitMQ.Client library (for CLI 4.0)
ii libmono-relaxng4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Relaxng library (for CLI 4.0)
ii libmono-security4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Security library (for CLI 4.0)
ii libmono-sharpzip4.84-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono SharpZipLib library (for CLI 4.0)
ii libmono-simd4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono SIMD (for CLI 4.0)
ii libmono-smdiagnostics0.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono SMDiagnostics Library (for CLI 4.0)
ii libmono-sqlite4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Sqlite library (for CLI 4.0)
ii libmono-system-componentmodel-composition4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.ComponentModel.Composition library (for CLI 4.0)
ii libmono-system-componentmodel-dataannotations4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.ComponentModel.DataAnnotations library (for CLI 4.0)
ii libmono-system-configuration-install4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Configuration.Install library (for CLI 4.0)
ii libmono-system-configuration4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Configuration library (for CLI 4.0)
ii libmono-system-core4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Core library (for CLI 4.0)
ii libmono-system-data-datasetextensions4.0-cil 4.2.1.102+dfsg2-7ubuntu4

all Mono System.Data.DataSetExtensions library (for CLI 4.0)
ii libmono-system-data-entity4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Data.Entity library (for CLI 4.0)
ii libmono-system-data-linq4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Data.Linq Library (for CLI 4.0)
ii libmono-system-data-services-client4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Data.Services.Client library (for CLI 4.0)
ii libmono-system-data-services4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Data.Services library (for CLI 4.0)
ii libmono-system-data4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Data library (for CLI 4.0)
ii libmono-system-design4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Design Library (for CLI 4.0)
ii libmono-system-drawing-design4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Drawing.Design (for CLI 4.0)
ii libmono-system-drawing4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Drawing library (for CLI 4.0)
ii libmono-system-dynamic4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Dynamic library (for CLI 4.0)
ii libmono-system-enterpriseservices4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.EnterpriseServices library (for CLI 4.0)
ii libmono-system-identitymodel-selectors4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.IdentityModel.Selectors Library (for CLI 4.0)
ii libmono-system-identitymodel4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.IdentityModel Library (for CLI 4.0)
ii libmono-system-io-compression-filesystem4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.IO.Compresion.FileSystem library (for CLI 4.0)
ii libmono-system-io-compression4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.IO.Compression library (for CLI 4.0)
ii libmono-system-json-microsoft4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Json.Microsoft library (for CLI 4.0)
ii libmono-system-json4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Json library (for CLI 4.0)
ii libmono-system-ldap-protocols4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.DirectoryServices.Protocols library (for CLI 4.0)
ii libmono-system-ldap4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.DirectoryServices library (for CLI 4.0)
ii libmono-system-management4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Management library (for CLI 4.0)
ii libmono-system-messaging4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Messaging library (for CLI 4.0)
ii libmono-system-net-http-formatting4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Net.Http.Formatting library (for CLI 4.0)
ii libmono-system-net-http-webrequest4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Net.Http.WebRequest library (for CLI 4.0)
ii libmono-system-net-http4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Net.Http

library (for CLI 4.0)
ii libmono-system-net4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Net library (for CLI 4.0)
ii libmono-system-numerics4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Numerics library (for CLI 4.0)
ii libmono-system-reactive-core2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Core Library (for CLI 4.5)
ii libmono-system-reactive-debugger2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Debugger Library (for CLI 4.5)
ii libmono-system-reactive-experimental2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Experimental Library (for CLI 4.5)
ii libmono-system-reactive-interfaces2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Interfaces Library (for CLI 4.5)
ii libmono-system-reactive-linq2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Linq Library (for CLI 4.5)
ii libmono-system-reactive-observable-aliases0.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Linq Library (for CLI 4.5)
ii libmono-system-reactive-platformservices2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.PlatformServices Library (for CLI 4.5)
ii libmono-system-reactive-providers2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Providers Library (for CLI 4.5)
ii libmono-system-reactive-runtime-remoting2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Runtime.Remoting Library (for CLI 4.5)
ii libmono-system-reactive-windows-forms2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Windows.Forms Library (for CLI 4.5)
ii libmono-system-reactive-windows-threading2.2-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Reactive.Windows.Threading Library (for CLI 4.5)
ii libmono-system-runtime-caching4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Runtime.Caching Library (for CLI 4.0)
ii libmono-system-runtime-durableinstancing4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Runtime.DurableInstancing Library (for CLI 4.0)
ii libmono-system-runtime-serialization-formatters-soap4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Runtime.Serialization.Formatters.Soap Library (for CLI 4.0)
ii libmono-system-runtime-serialization4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Runtime.Serialization
Library (for CLI 4.0)
ii libmono-system-runtime4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Runtime library (for CLI 4.0)
ii libmono-system-security4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Security library (for CLI 4.0)
ii libmono-system-servicemodel-activation4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.ServiceModel.Activation Library (for CLI 4.0)
ii libmono-system-servicemodel-discovery4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.ServiceModel.Discovery Library (for CLI 4.0)
ii libmono-system-servicemodel-internals0.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.ServiceModel.Internals Library (for CLI 4.0)
ii libmono-system-servicemodel-routing4.0-cil 4.2.1.102+dfsg2-7ubuntu4

all Mono System.ServiceModel.Routing Library (for CLI 4.0)
ii libmono-system-servicemodel-web4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.ServiceModel.Web Library (for CLI 4.0)
ii libmono-system-servicemodel4.0a-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.ServiceModel Library (for CLI 4.0)
ii libmono-system-serviceprocess4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.ServiceProcess library (for CLI 4.0)
ii libmono-system-threading-tasks-dataflow4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Threading.Tasks.Dataflow library (for CLI 4.0)
ii libmono-system-transactions4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Transactions library (for CLI 4.0)
ii libmono-system-web-abstractions4.0-cil
4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.Abstractions library (for CLI 4.0)
ii libmono-system-web-applicationservices4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.ApplicationServices library (for CLI 4.0)
ii libmono-system-web-dynamicdata4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.DynamicData library (for CLI 4.0)
ii libmono-system-web-extensions-design4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.Extensions.Design library (for CLI 4.0)
ii libmono-system-web-extensions4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.Extensions library (for CLI 4.0)
ii libmono-system-web-http-selfhost4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.Http.SelfHost library (for CLI 4.0)
ii
libmono-system-web-http-webhost4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.Http.WebHost library (for CLI 4.0)
ii libmono-system-web-http4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.Http library (for CLI 4.0)
ii libmono-system-web-mvc3.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono ASP.NET MVC 3.0 Library (for CLI 4.0)
ii libmono-system-web-razor2.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.Razor (for CLI 4.0)
ii libmono-system-web-routing4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.Routing (for CLI 4.0)
ii libmono-system-web-services4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.Services (for CLI 4.0)
ii libmono-system-web-webpages-deployment2.0-cil
4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.WebPages.Deployment (for CLI 4.0)
ii libmono-system-web-webpages-razor2.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.WebPages.Razor (for CLI 4.0)
ii libmono-system-web-webpages2.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web.WebPages (for CLI 4.0)
ii libmono-system-web4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Web library (for CLI 4.0)
ii libmono-system-windows-forms-datavisualization4.0a-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Windows.Forms.DataVisualization Library (for CLI 4.0)
ii libmono-system-windows-forms4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Windows.Forms Library

(for CLI 4.0)
ii libmono-system-windows4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Windows library (for CLI 4.0)
ii libmono-system-xaml4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Xaml Library (for CLI 4.0)
ii libmono-system-xml-linq4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Xml.Linq library (for CLI 4.0)
ii libmono-system-xml-serialization4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Xml.Serialization library (for CLI 4.0)
ii libmono-system-xml4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System.Xml library (for CLI 4.0)
ii libmono-system4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono System libraries (for CLI 4.0)
ii
libmono-tasklets4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Tasklets library (for CLI 4.0)
ii libmono-webbrowser4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Web Browser library (for CLI 4.0)
ii libmono-webmatrix-data4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono WebMatrix.Data Library (for CLI 4.0)
ii libmono-windowsbase4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono WindowsBase library (for CLI 4.0)
ii libmono-xbuild-tasks4.0-cil 4.2.1.102+dfsg2-7ubuntu4 all Mono Mono.XBuild.Tasks library (for CLI 4.0)
ii libmonoboehm-2.0-1 4.2.1.102+dfsg2-7ubuntu4 amd64 Mono JIT library (Boehm GC)
ii libmonoboehm-2.0-dev
4.2.1.102+dfsg2-7ubuntu4 amd64 Mono JIT library - Development files (Boehm GC)
ii libmount1:amd64 2.27.1-6ubuntu3.2 amd64 device mounting library
ii libmp3lame0:amd64 3.99.5+repack1-9build1 amd64 MP3 encoding library
ii libmpc3:amd64 1.0.3-1 amd64 multiple precision complex floating-point library
ii libmpdec2:amd64 2.4.2-1 amd64 library for decimal floating point arithmetic (runtime library)
ii libmpeg2-4:amd64 0.5.1-7 amd64 MPEG1 and MPEG2 video decoder library
ii libmpeg2encpp-2.1-0
1:2.1.0+debian-4 amd64 MJPEG capture/editing/replay and MPEG encoding toolset (library)
ii libmpfr4:amd64 3.1.4-1 amd64 multiple precision floating-point computation
ii libmpg123-0:amd64 1.22.4-1 amd64 MPEG layer 1/2/3 audio decoder (shared library)
ii libmplex2-2.1-0 1:2.1.0+debian-4 amd64 MJPEG capture/editing/replay and MPEG encoding toolset (library)

ii libmpx0:amd64 5.4.0-6ubuntu1~16.04.4 amd64 Intel memory protection extensions (runtime)
ii libmspub-0.1-1:amd64 0.1.2-2ubuntu1 amd64 library for parsing the mspub file structure
ii libmtdev1:amd64 1.1.5-1ubuntu2 amd64 Multitouch Protocol Translation Library - shared library
ii libmtp-common 1.1.10-2ubuntu1 all Media Transfer Protocol (MTP) common files
ii libmtp-runtime 1.1.10-2ubuntu1 amd64 Media Transfer Protocol (MTP) runtime tools
ii libmtp9:amd64 1.1.10-2ubuntu1 amd64 Media Transfer Protocol (MTP) library
ii libmwaw-0.3-3:amd64 0.3.7-1ubuntu2 amd64 import library for some old Mac text documents
ii libmysqlclient20:i386 5.7.17-0ubuntu0.16.04.1 i386 MySQL database client library
ii libmythes-1.2-0:amd64 2:1.2.4-1ubuntu3 amd64 simple thesaurus library
ii libnatpmp1:amd64 20110808-4 amd64 portable and fully compliant implementation of NAT-PMP
ii libnautilus-extension1a:amd64 1:3.18.4.is.3.14.3-0ubuntu5 amd64 libraries for nautilus components - runtime version
ii libnb-org-openide-util-java 8.1+dfsg1-2 all Utility classes from the NetBeans Platform
ii libnb-org-openide-util-lookup-java 8.1+dfsg1-2 all Utility lookup classes from the NetBeans Platform
ii libncurses5:amd64 6.0+20160213-1ubuntu1 amd64 shared libraries for terminal handling
ii libncurses5:i386 6.0+20160213-1ubuntu1 i386 shared libraries for terminal handling
ii libncurses5-dev:amd64 6.0+20160213-1ubuntu1 amd64 developer's libraries for ncurses
ii libncursesw5:amd64 6.0+20160213-1ubuntu1 amd64 shared libraries for terminal handling (wide character support)
ii libncursesw5:i386 6.0+20160213-1ubuntu1 i386 shared libraries for terminal handling (wide character support)
ii libndp0:amd64 1.4-2ubuntu0.16.04.1 amd64 Library for Neighbor Discovery Protocol
ii libneon27-gnutls:amd64 0.30.1-3build1 amd64 HTTP and WebDAV client library (GnuTLS enabled)
ii libnet-dbus-perl 1.1.0-3build1 amd64 Perl extension for the DBus bindings
ii libnet-dns-perl 0.81-2build1 amd64 Perl extension for DNS queries from a Perl script

ii libnet-domain-tld-perl 1.73-1 all list of currently available Top-level Domains (TLDs)
ii libnet-http-perl 6.09-1 all module providing low-level HTTP connection client
ii libnet-ip-perl 1.26-1 all Perl extension for manipulating IPv4/IPv6 addresses
ii libnet-libidn-perl 0.12.ds-2build2 amd64 Perl bindings for GNU Libidn
ii libnet-smtp-ssl-perl 1.03-1 all Perl module providing SSL support to Net::SMTP
ii libnet-ssleay-perl 1.72-1build1 amd64 Perl module for Secure Sockets Layer (SSL)
ii libnetfilter-conntrack3:amd64 1.0.5-1 amd64 Netfilter netlink-conntrack library
ii libnetpbm10 2:10.0-15.3 amd64 Graphics conversion tools shared libraries
ii libnettle6:amd64 3.2-1ubuntu0.16.04.1 amd64 low level cryptographic library (symmetric and one-way cryptos)
ii libnettle6:i386 3.2-1ubuntu0.16.04.1 i386 low level cryptographic library (symmetric and one-way cryptos)
ii libnewt0.52:amd64 0.52.18-1ubuntu2 amd64 Not Erik's Windowing Toolkit - text mode windowing with slang
ii libnfnetlink0:amd64 1.0.1-3 amd64 Netfilter netlink library
ii libnih-dbus1:amd64 1.0.3-4.3ubuntu1 amd64 NIH D-Bus Bindings Library
ii libnih1:amd64 1.0.3-4.3ubuntu1 amd64 NIH Utility Library
ii libnl-3-200:amd64 3.2.27-1 amd64 library for dealing with netlink sockets
ii libnl-genl-3-200:amd64 3.2.27-1 amd64 library for dealing with netlink sockets - generic netlink
ii libnm-glib-vpn1:amd64 1.2.2-0ubuntu0.16.04.3 amd64 network management framework (GLib VPN shared library)
ii libnm-glib4:amd64 1.2.2-0ubuntu0.16.04.3 amd64 network management framework (GLib shared library)
ii libnm-gtk-common 1.2.0-0ubuntu0.16.04.4 all library for wireless and mobile dialogs - common files
ii libnm-gtk0:amd64 1.2.0-0ubuntu0.16.04.4 amd64 library for wireless and mobile dialogs (libnm-glib version)
ii libnm-util2:amd64 1.2.2-0ubuntu0.16.04.3 amd64 network management framework (shared library)
ii libnm0:amd64 1.2.2-0ubuntu0.16.04.3 amd64 GObject-based client library for NetworkManager
ii libnma-common 1.2.0-0ubuntu0.16.04.4 all library for wireless and mobile dialogs - common files
ii libnma0:amd64 1.2.0-0ubuntu0.16.04.4 amd64 library for wireless and mobile dialogs (libnm version)
ii libnotify-bin 0.7.6-2svn1 amd64 sends desktop

notifications to a notification daemon (Utilities)
ii libnotify4:amd64 0.7.6-2svn1 amd64 sends desktop notifications to a notification daemon
ii libnpth0:amd64 1.2-3 amd64 replacement for GNU Pth using system threads
ii libnspr4:amd64 2:4.12-0ubuntu0.16.04.1 amd64 NetScape Portable Runtime Library
ii libnss-mdns:amd64 0.10-7 amd64 NSS module for Multicast DNS name resolution
ii libnss3:amd64 2:3.26.2-0ubuntu0.16.04.2 amd64 Network Security Service libraries
ii libnss3-1d:amd64 2:3.26.2-0ubuntu0.16.04.2 amd64 Network Security Service libraries - transitional package
ii libnss3-nssdb 2:3.26.2-0ubuntu0.16.04.2 all Network Security Security libraries - shared databases
ii libnuma1:amd64 2.0.11-1ubuntu1 amd64 Libraries for controlling NUMA policy
ii libnunit-cil-dev 2.6.4+dfsg-1 all Unit test framework for CLI - Development files
ii libnunit-console-runner2.6.3-cil 2.6.4+dfsg-1 all Unit test framework for CLI - Assemblies
ii libnunit-core-interfaces2.6.3-cil 2.6.4+dfsg-1 all Unit test framework for CLI - Assemblies
ii libnunit-core2.6.3-cil 2.6.4+dfsg-1 all Unit test framework for CLI - Assemblies
ii libnunit-framework2.6.3-cil 2.6.4+dfsg-1 all Unit test framework for CLI - Assemblies
ii libnunit-mocks2.6.3-cil 2.6.4+dfsg-1 all Unit test framework for CLI - Assemblies
ii libnunit-util2.6.3-cil 2.6.4+dfsg-1 all Unit test framework for CLI - Assemblies
ii libnux-4.0-0 4.0.8+16.04.20160705-0ubuntu1 amd64 Visual rendering toolkit for real-time applications - shared lib
ii libnux-4.0-common 4.0.8+16.04.20160705-0ubuntu1 all Visual rendering toolkit for real-time applications - common files
ii liboauth0:amd64 1.0.3-0ubuntu2 amd64 C library for implementing OAuth 1.0
ii libobjc-5-dev:amd64 5.4.0-6ubuntu1~16.04.4 amd64 Runtime library for GNU Objective-C applications (development files)
ii libobjc4:amd64 5.4.0-6ubuntu1~16.04.4 amd64 Runtime library for GNU Objective-C applications
ii libobjenesis-java 2.2-1 all Java library to instantiate a new object of a particular class
ii libodfgen-0.1-1 0.1.6-1ubuntu2 amd64 library to generate ODF documents
ii libofa0:amd64 0.9.3-10ubuntu1 amd64 library for acoustic fingerprinting

ii libogg0:amd64 1.3.2-1 amd64 Ogg bitstream library
ii libogg0:i386 1.3.2-1 i386 Ogg bitstream library
ii libopenal-data 1:1.16.0-3 all Software implementation of the OpenAL audio API
(data files)
ii libopenal1:amd64 1:1.16.0-3 amd64 Software implementation of the OpenAL audio API (shared library)
ii libopencore-amrnb0:amd64 0.1.3-2.1 amd64 Adaptive Multi Rate speech codec - shared library
ii libopencore-amrwb0:amd64 0.1.3-2.1 amd64 Adaptive Multi-Rate - Wideband speech codec - shared library
ii libopencv-calib3d-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-calib3d
ii libopencv-calib3d2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Camera Calibration library
ii libopencv-contrib-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-contrib
ii libopencv-contrib2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision contrib library
ii libopencv-core-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-core
ii libopencv-core2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision core library
ii libopencv-dev 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for opencv
ii libopencv-features2d-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-features2d
ii libopencv-features2d2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Feature Detection and Descriptor
Extraction library
ii libopencv-flann-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-flann
ii libopencv-flann2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Clustering and Search in Multi-Dimensional spaces library
ii libopencv-gpu-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-gpu2.4v5
ii libopencv-gpu2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision GPU library
ii libopencv-highgui-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-highgui
ii libopencv-highgui2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision
High-level GUI and Media I/O library
ii libopencv-imgproc-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-imgproc
ii libopencv-imgproc2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Image Processing library
ii libopencv-legacy-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development

files for libopencv-legacy
ii libopencv-legacy2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision legacy library
ii libopencv-ml-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-ml
ii libopencv-ml2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Machine Learning library
ii libopencv-objdetect-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-objdetect
ii libopencv-objdetect2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Object Detection library
ii libopencv-ocl-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-ocl2.4v5
ii libopencv-ocl2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision OpenCL support library
ii libopencv-photo-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-photo2.4v5
ii libopencv-photo2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision computational photography library
ii libopencv-stitching-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-stitching2.4v5
ii libopencv-stitching2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision image stitching library
ii libopencv-superres-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-superres2.4v5
ii libopencv-superres2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Super Resolution library
ii libopencv-ts-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-ts2.4v5
ii libopencv-ts2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision ts library
ii libopencv-video-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-video
ii libopencv-video2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision Video analysis library
ii libopencv-videostab-dev:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 development files for libopencv-videostab2.4v5
ii libopencv-videostab2.4v5:amd64 2.4.9.1+dfsg-1.5ubuntu1 amd64 computer vision video stabilization library
ii libopencv2.4-java 2.4.9.1+dfsg-1.5ubuntu1 all Java bindings for the computer vision library
ii libopencv2.4-jni 2.4.9.1+dfsg-1.5ubuntu1 amd64 Java jni library for the computer vision library
ii libopenexr-dev 2.2.0-10ubuntu2 amd64 development files for the OpenEXR image library

ii libopenexr22:amd64 2.2.0-10ubuntu2 amd64 runtime files for the OpenEXR image library
ii libopenjpeg5:amd64 1:1.5.2-3.1 amd64 JPEG 2000 image compression/decompression library - runtime
ii libopus0:amd64 1.1.2-1ubuntu1 amd64 Opus codec runtime library
ii libopus0:i386 1.1.2-1ubuntu1 i386 Opus codec runtime library
ii liborc-0.4-0:amd64 1:0.4.25-1 amd64 Library of Optimized Inner Loops Runtime Compiler
ii liborc-0.4-0:i386 1:0.4.25-1 i386 Library of Optimized Inner Loops Runtime Compiler
ii liborcus-0.10-0v5:amd64 0.9.2-4ubuntu2 amd64 library for processing spreadsheet documents
ii libosmesa6:amd64 11.2.0-1ubuntu2.2 amd64 Mesa Off-screen rendering extension
ii liboxideqt-qmlplugin:amd64 1.20.4-0ubuntu0.16.04.1 amd64 Web browser engine for Qt (QML plugin)
ii liboxideqtcore0:amd64 1.20.4-0ubuntu0.16.04.1 amd64 Web browser engine for Qt (core library and components)
ii liboxideqtquick0:amd64 1.20.4-0ubuntu0.16.04.1 amd64 Web browser engine for Qt (QtQuick library)
ii libp11-kit-gnome-keyring:amd64 3.18.3-0ubuntu2 amd64 GNOME keyring module for the PKCS#11 module loading library
ii libp11-kit0:amd64 0.23.2-5~ubuntu16.04.1 amd64 library for loading and coordinating access to PKCS#11 modules - runtime
ii libp11-kit0:i386 0.23.2-5~ubuntu16.04.1 i386 library for loading and coordinating access to PKCS#11 modules - runtime
ii libpackagekit-glib2-16:amd64 0.8.17-4ubuntu6~gcc5.4ubuntu1.1 amd64 Library for accessing PackageKit using GLib
ii libpagemaker-0.0-0:amd64 0.0.3-1ubuntu1 amd64 Library for importing and converting PageMaker Documents
ii libpam-gnome-keyring:amd64 3.18.3-0ubuntu2 amd64 PAM module to unlock the GNOME keyring upon login
ii libpam-modules:amd64 1.1.8-3.2ubuntu2 amd64 Pluggable Authentication Modules for PAM
ii libpam-modules-bin 1.1.8-3.2ubuntu2 amd64 Pluggable Authentication Modules for PAM - helper binaries
ii libpam-runtime 1.1.8-3.2ubuntu2 all Runtime support for the PAM library
ii libpam-systemd:amd64 229-4ubuntu16 amd64 system and service manager - PAM module
ii libpam0g:amd64 1.1.8-3.2ubuntu2 amd64 Pluggable Authentication Modules library
ii libpango-1.0-0:amd64 1.38.1-1

amd64 Layout and rendering of internationalized text
ii libpango-1.0-0:i386 1.38.1-1 i386 Layout and rendering of internationalized text
ii libpango1.0-0:amd64 1.38.1-1 amd64 Layout and rendering of internationalized text (transitional package)
ii libpango1.0-dev 1.38.1-1 amd64 Development files for the Pango
ii libpangocairo-1.0-0:amd64 1.38.1-1 amd64 Layout and rendering of internationalized text
ii libpangocairo-1.0-0:i386 1.38.1-1 i386 Layout and rendering of internationalized text
ii libpangoft2-1.0-0:amd64
1.38.1-1 amd64 Layout and rendering of internationalized text
ii libpangoft2-1.0-0:i386 1.38.1-1 i386 Layout and rendering of internationalized text
ii libpangomm-1.4-1v5:amd64 2.38.1-1 amd64 C++ Wrapper for pango (shared libraries)
ii libpangox-1.0-0:amd64 0.0.2-5 amd64 pango library X backend
ii libpangoxft-1.0-0:amd64 1.38.1-1 amd64 Layout and rendering of internationalized text
ii libpaper-utils 1.1.24+nmu4ubuntu1 amd64 library for handling paper characteristics (utilities)
ii libpaper1:amd64 1.1.24+nmu4ubuntu1
amd64 library for handling paper characteristics
ii libparse-debianchangelog-perl 1.2.0-8 all parse Debian changelogs and output them in other formats
ii libparted2:amd64 3.2-15 amd64 disk partition manipulator - shared library
ii libpathplan4 2.38.0-12ubuntu2.1 amd64 rich set of graph drawing tools - pathplan library
ii libpcap0.8:amd64 1.7.4-2 amd64 system interface for user-level packet capture
ii libpci3:amd64 1:3.3.1-1.1ubuntu1 amd64 Linux PCI Utilities (shared library)
ii libpciaccess0:amd64
0.13.4-1 amd64 Generic PCI access library for X
ii libpciaccess0:i386 0.13.4-1 i386 Generic PCI access library for X
ii libpcre16-3:amd64 2:8.38-3.1 amd64 Perl 5 Compatible Regular Expression Library - 16 bit runtime files
ii libpcre3:amd64 2:8.38-3.1 amd64 Perl 5 Compatible Regular Expression Library - runtime files
ii libpcre3:i386 2:8.38-3.1 i386 Perl 5 Compatible Regular Expression Library - runtime files
ii libpcre3-dev:amd64 2:8.38-3.1 amd64 Perl 5 Compatible Regular Expression Library - development

files
ii libpcre32-3:amd64 2:8.38-3.1 amd64 Perl 5 Compatible Regular Expression Library - 32 bit runtime files
ii libpcrecpp0v5:amd64 2:8.38-3.1 amd64 Perl 5 Compatible Regular Expression Library - C++ runtime files
ii libpcsclite1:amd64 1.8.14-1ubuntu1.16.04.1 amd64 Middleware to access a smart card using PC/SC (library)
ii libpeas-1.0-0:amd64 1.16.0-1ubuntu2 amd64 Application plugin library
ii libpeas-1.0-0-python3loader 1.16.0-1ubuntu2 amd64 Application plugin library
ii libpeas-common 1.16.0-1ubuntu2 all Application plugin library (common files)
ii libperl5.22:amd64 5.22.1-9 amd64 shared Perl library
ii libperlio-gzip-perl 0.19-1build1 amd64 module providing a PerlIO layer to gzip/gunzip
ii libpipeline1:amd64 1.4.1-2 amd64 pipeline manipulation library
ii libpixman-1-0:amd64 0.33.6-1 amd64 pixel-manipulation library for X and cairo
ii libpixman-1-0:i386 0.33.6-1 i386 pixel-manipulation library for X and cairo
ii libpixman-1-dev 0.33.6-1 amd64 pixel-manipulation library for X and cairo (development files)
ii libplexus-ant-factory-java 1.0~alpha2.1-3 all Plexus Ant Factory
ii libplexus-archiver-java 2.2-1 all Archiver plugin for the Plexus compiler system
ii libplexus-bsh-factory-java 1.0~alpha7-3.1 all Plexus Beanshell Factory
ii libplexus-cipher-java 1.7-1 all Plexus Cipher Component used by Maven
ii libplexus-classworlds-java 1.5.0-5 all Class loading utilities for the Plexus framework
ii libplexus-classworlds2-java 2.5.2-1 all Class loading utilities for the Plexus framework
ii libplexus-cli-java 1.2-5 all Easily create CLIs with Plexus components
ii libplexus-component-annotations-java 1.6-2 all Plexus Component Annotations
ii libplexus-component-metadata-java 1.6-2 all Component Metadata Maven plugin for Plexus
ii libplexus-container-default-java 1.0-alpha-9-stable-1-7 all utilities for the Plexus framework
ii libplexus-container-default1.5-java 1.6-2 all Plexus Inversion-of-control Container
ii libplexus-containers-java 1.0~beta3.0.7-8 all utilities for the Plexus framework

ii libplexus-containers1.5-java
1.6-2 all Plexus IoC Container core with companion tools
ii libplexus-interactivity-api-java 1.0-alpha-6-7 all interactivity API for
the Plexus framework
ii libplexus-interpolation-java 1.21-1 all Plexus Interpolation API
ii libplexus-io-java 1.0~alpha5-2 all Plexus IO Components
ii libplexus-sec-dispatcher-java 1.3.1-6 all Plexus Security
Dispatcher Component used by Maven
ii libplexus-utils-java 1:1.5.15-4 all utilities for the Plexus
framework
ii libplexus-utils2-java 3.0.22-1
all utilities for the Plexus framework
ii libplist3:amd64 1.12-3.1 amd64 Library for handling
Apple binary and XML property lists
ii libplymouth4:amd64 0.9.2-3ubuntu13.1 amd64 graphical boot
animation and logger - shared libraries
ii libpng12-0:amd64 1.2.54-1ubuntu1 amd64 PNG library -
runtime
ii libpng12-0:i386 1.2.54-1ubuntu1 i386 PNG library - runtime
ii libpng12-dev:amd64 1.2.54-1ubuntu1 amd64 PNG library -
development
ii libpolkit-agent-1-0:amd64 0.105-14.1 amd64 PolicyKit
Authentication
Agent API
ii libpolkit-backend-1-0:amd64 0.105-14.1 amd64 PolicyKit backend
API
ii libpolkit-gobject-1-0:amd64 0.105-14.1 amd64 PolicyKit
Authorization API
ii libpoppler-glib8:amd64 0.41.0-0ubuntu1.1 amd64 PDF rendering
library (GLib-based shared library)
ii libpoppler-qt5-1:amd64 0.41.0-0ubuntu1.1 amd64 PDF rendering
library (Qt 5 based shared library)
ii libpoppler58:amd64 0.41.0-0ubuntu1.1 amd64 PDF rendering
library
ii libpopt0:amd64 1.16-10 amd64 lib for parsing cmdline
parameters
ii libportaudio2:amd64
19+svn20140130-1build1 amd64 Portable audio I/O - shared library
ii libpostproc-ffmpeg53:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg
library for post processing - runtime files
ii libpotrace0 1.13-2 amd64 library for tracing bitmaps
ii libpq5:amd64 9.6.1-2.pgdg16.04+1 amd64 PostgreSQL C client
library
ii libprocps4:amd64 2:3.3.10-4ubuntu2.3 amd64 library for
accessing process information from /proc
ii libprotobuf-lite9v5:amd64 2.6.1-1.3 amd64 protocol buffers C++
library (lite version)
ii libprotobuf9v5:amd64

2.6.1-1.3 amd64 protocol buffers C++ library
ii libproxy1-plugin-gsettings:amd64 0.4.11-5ubuntu1 amd64 automatic proxy configuration management library (GSettings plugin)
ii libproxy1-plugin-gsettings:i386 0.4.11-5ubuntu1 i386 automatic proxy configuration management library (GSettings plugin)
ii libproxy1-plugin-networkmanager:amd64 0.4.11-5ubuntu1 amd64 automatic proxy configuration management library (Network Manager plugin)
ii libproxy1-plugin-webkit:i386 0.4.11-5ubuntu1 i386 automatic proxy configuration management library (Webkit plugin)
ii libproxy1v5:amd64 0.4.11-5ubuntu1 amd64 automatic proxy configuration
management library (shared)
ii libproxy1v5:i386 0.4.11-5ubuntu1 i386 automatic proxy configuration management library (shared)
ii libptexenc1:amd64 2015.20160222.37495-1 amd64 TeX Live: pTeX encoding library
ii libpthread-stubs0-dev:amd64 0.3-4 amd64 pthread stubs not provided by native libc, development files
ii libpulse-mainloop-glib0:amd64 1:8.0-0ubuntu3.2 amd64 PulseAudio client libraries (glib support)
ii libpulse0:amd64 1:8.0-0ubuntu3.2 amd64 PulseAudio client libraries
ii libpulse0:i386 1:8.0-0ubuntu3.2 i386 PulseAudio
client libraries
ii libpulsedsp:amd64 1:8.0-0ubuntu3.2 amd64 PulseAudio OSS pre-load library
ii libpwquality-common 1.3.0-0ubuntu1 all library for password quality checking and generation (data files)
ii libpwquality1:amd64 1.3.0-0ubuntu1 amd64 library for password quality checking and generation
ii libpython-all-dev:amd64 2.7.11-1 amd64 package depending on all supported Python development packages
ii libpython-dev:amd64 2.7.11-1 amd64 header files and a static library for Python (default)
ii libpython-stdlib:amd64 2.7.11-1
amd64 interactive high-level object-oriented language (default python version)
ii libpython2.7:amd64 2.7.12-1ubuntu0~16.04.1 amd64 Shared Python runtime library (version 2.7)
ii libpython2.7-dev:amd64 2.7.12-1ubuntu0~16.04.1 amd64 Header files and a static library for Python (v2.7)
ii libpython2.7-minimal:amd64 2.7.12-1ubuntu0~16.04.1 amd64 Minimal subset of the Python language (version 2.7)
ii libpython2.7-stdlib:amd64 2.7.12-1ubuntu0~16.04.1 amd64 Interactive high-level object-oriented language (standard library, version 2.7)
ii libpython3-stdlib:amd64 3.5.1-3 amd64 interactive high-level object-oriented language (default
python3 version)
ii libpython3.5:amd64 3.5.2-2ubuntu0~16.04.1 amd64 Shared Python

runtime library (version 3.5)
ii libpython3.5-minimal:amd64 3.5.2-2ubuntu0~16.04.1 amd64 Minimal subset of the Python language (version 3.5)
ii libpython3.5-stdlib:amd64 3.5.2-2ubuntu0~16.04.1 amd64 Interactive high-level object-oriented language (standard library, version 3.5)
ii libqdox2-java 2.0~M3-2 all quickly parses declarations and Javadoc from Java source
ii libqmi-glib1:amd64 1.12.6-1 amd64 Support library to use the Qualcomm MSM Interface (QMI) protocol
ii libqmi-proxy 1.12.6-1 amd64 Proxy to communicate with QMI ports
ii libqpdf17:amd64 6.0.0-2 amd64 runtime library for PDF transformation/inspection software
ii libqqwing2v5:amd64 1.3.4-1 amd64 tool for generating and solving Sudoku puzzles (library)
ii libqt4-dbus:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 D-Bus module
ii libqt4-dbus:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 D-Bus module
ii libqt4-declarative:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 Declarative module
ii libqt4-declarative:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 Declarative module
ii libqt4-network:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 network module
ii libqt4-network:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 network module
ii libqt4-opengl:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 OpenGL module
ii libqt4-script:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 script module
ii libqt4-script:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 script module
ii libqt4-sql:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 SQL module
ii libqt4-sql:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 SQL module
ii libqt4-sql-mysql:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 MySQL database driver
ii libqt4-sql-sqlite:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 SQLite 3 database driver
ii libqt4-xml:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 XML module
ii libqt4-xml:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 XML module
ii libqt4-xmlpatterns:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 XML patterns module
ii libqt4-xmlpatterns:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 XML patterns module
ii libqt5core5a:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 core module
ii libqt5dbus5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 D-Bus

module
ii libqt5feedback5:amd64 5.0~git20130529-0ubuntu13 amd64 Qt Feedback module
ii libqt5gui5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 GUI module
ii libqt5multimedia5:amd64 5.5.1-4ubuntu2 amd64 Qt 5 Multimedia module
ii libqt5network5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 network module
ii libqt5opengl5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 OpenGL module
ii libqt5organizer5:amd64 5.0~git20140515~29475884-0ubuntu20 amd64 Qt PIM module, Organizer library
ii libqt5positioning5:amd64 5.5.1-3ubuntu1 amd64 Qt Positioning module
ii libqt5printsupport5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 print support module
ii libqt5qml5:amd64 5.5.1-2ubuntu6 amd64 Qt 5 QML module
ii libqt5quick5:amd64 5.5.1-2ubuntu6 amd64 Qt 5 Quick library
ii libqt5quicktest5:amd64 5.5.1-2ubuntu6 amd64 Qt 5 Quick Test library
ii libqt5script5:amd64 5.5.1+dfsg-2build1 amd64 Qt 5 script module
ii libqt5sql5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 SQL module
ii libqt5sql5-sqlite:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 SQLite 3 database driver
ii libqt5svg5:amd64 5.5.1-2build1 amd64 Qt 5 SVG module
ii libqt5test5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 test module
ii libqt5webkit5:amd64 5.5.1+dfsg-2ubuntu1 amd64 Web content engine library for Qt
ii libqt5widgets5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 widgets module
ii libqt5x11extras5:amd64 5.5.1-3build1 amd64 Qt 5 X11 extras
ii libqt5xml5:amd64 5.5.1+dfsg-16ubuntu7.2 amd64 Qt 5 XML module
ii libqtcore4:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 core module
ii libqtcore4:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 core module
ii libqtdbus4:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 D-Bus module library
ii libqtdbus4:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 D-Bus module library
ii libqtgui4:amd64 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 GUI module
ii libqtgui4:i386 4:4.8.7+dfsg-5ubuntu2 i386 Qt 4 GUI module
ii libqtwebkit4:i386 2.3.2-0ubuntu11 i386 Web content engine library for Qt
ii libquadmath0:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GCC Quad-Precision Math Library
ii libquvi-scripts 0.4.21-2 all library for parsing video download links (Lua scripts)

ii libquvi7:amd64 0.4.1-3 amd64 library for parsing video download links (runtime libraries)
ii libraptor2-0:amd64 2.0.14-1 amd64 Raptor 2 RDF syntax library
ii librasqal3:amd64 0.9.32-1 amd64 Rasqal RDF query library
ii libraw1394-11:amd64 2.1.1-2 amd64 library for direct access to IEEE 1394 bus (aka FireWire)
ii libraw1394-11:i386 2.1.1-2 i386 library for direct access to IEEE 1394 bus (aka FireWire)
ii libraw1394-dev:amd64 2.1.1-2 amd64 library for direct access to IEEE 1394 bus - development files
ii libraw1394-tools 2.1.1-2 amd64 library for direct access to IEEE 1394 bus (aka FireWire)
ii libraw15:amd64 0.17.1-1 amd64 raw image decoder library
ii librdf0:amd64 1.0.17-1build1 amd64 Redland Resource Description Framework (RDF) library
ii libreadline6:amd64 6.3-8ubuntu2 amd64 GNU readline and history libraries, run-time libraries
ii librecode0:amd64 3.6-22 amd64 Shared library on which recode is based
ii libregexp-common-perl 2016020301-1 all module with common regular expressions
ii libreoffice-avmedia-backend-gstreamer 1:5.1.4-0ubuntu1 amd64 GStreamer backend for LibreOffice
ii libreoffice-base-core 1:5.1.4-0ubuntu1 amd64 office productivity suite -- shared library
ii libreoffice-calc 1:5.1.4-0ubuntu1 amd64 office productivity suite -- spreadsheet
ii libreoffice-common 1:5.1.4-0ubuntu1 all office productivity suite -- arch-independent files
ii libreoffice-core 1:5.1.4-0ubuntu1 amd64 office productivity suite -- arch-dependent files
ii libreoffice-draw 1:5.1.4-0ubuntu1 amd64 office productivity suite -- drawing
ii libreoffice-gnome 1:5.1.4-0ubuntu1 amd64 office productivity suite -- GNOME integration
ii libreoffice-gtk 1:5.1.4-0ubuntu1 amd64 office productivity suite -- GTK+ integration
ii libreoffice-help-en-gb 1:5.1.4-0ubuntu1 all office productivity suite -- English_british help
ii libreoffice-help-en-us 1:5.1.4-0ubuntu1 all office productivity suite -- English_american help
ii libreoffice-help-it 1:5.1.4-0ubuntu1 all office productivity suite -- Italian help
ii libreoffice-impress 1:5.1.4-0ubuntu1 amd64 office productivity suite -- presentation

ii libreoffice-l10n-en-gb 1:5.1.4-0ubuntu1 all office productivity suite -- English_british language package
ii libreoffice-l10n-en-za 1:5.1.4-0ubuntu1 all office productivity suite -- English_southafrican language package
ii libreoffice-l10n-it 1:5.1.4-0ubuntu1 all office productivity suite -- Italian language
package
ii libreoffice-math 1:5.1.4-0ubuntu1 amd64 office productivity suite -- equation editor
ii libreoffice-ogltrans 1:5.1.4-0ubuntu1 amd64 LibreOffice Impress extension for slide transitions using OpenGL
ii libreoffice-pdfimport 1:5.1.4-0ubuntu1 amd64 PDF Import component for LibreOffice
ii libreoffice-style-breeze 1:5.1.4-0ubuntu1 all office productivity suite -- Breeze symbol style
ii libreoffice-style-galaxy 1:5.1.4-0ubuntu1 all office productivity suite -- Galaxy (Default) symbol style
ii libreoffice-writer 1:5.1.4-0ubuntu1 amd64
office productivity suite -- word processor
ii librest-0.7-0:amd64 0.7.93-1 amd64 REST service access library
ii librevenge-0.0-0:amd64 0.0.4-4ubuntu1 amd64 Base Library for writing document interface filters
ii librhino-java 1.7R4-3 all Libraries for rhino Java Script Engine
ii librhythmbox-core9:amd64 3.3-1ubuntu7 amd64 support library for the rhythmbox music player
ii libroken18-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - roken support library
ii librsvg2-2:amd64 2.40.13-3 amd64 SAX-based
renderer library for SVG files (runtime)
ii librsvg2-common:amd64 2.40.13-3 amd64 SAX-based renderer library for SVG files (extra runtime)
ii librsync1:amd64 0.9.7-10 amd64 rsync remote-delta algorithm library
ii librtmp1:amd64 2.4+20151223.gitfa8646d-1build1 amd64 toolkit for RTMP streams (shared library)
ii libruby2.3:amd64 2.3.1-2~16.04 amd64 Libraries necessary to run Ruby 2.3
ii libsamplerate0:amd64 0.1.8-8 amd64 Audio sample rate conversion library
ii libsamplerate0:i386 0.1.8-8 i386 Audio sample
rate conversion library
ii libsane:amd64 1.0.26-git20160712-xenial0 amd64 API library for scanners
ii libsane-common 1.0.26-git20160712-xenial0 amd64 API library for scanners -- documentation and support files
ii libsane-hpaio:amd64 3.16.3+repack0-1 amd64 HP SANE backend

for multi-function peripherals
ii libsasl2-2:amd64 2.1.26.dfsg1-14build1 amd64 Cyrus SASL - authentication abstraction library
ii libsasl2-modules:amd64 2.1.26.dfsg1-14build1 amd64 Cyrus SASL - pluggable authentication modules
ii libsasl2-modules-db:amd64 2.1.26.dfsg1-14build1 amd64 Cyrus SASL - pluggable authentication modules (DB)
ii libsbc1:amd64 1.3-1 amd64 Sub Band CODEC library - runtime
ii libschroedinger-1.0-0:amd64 1.0.11-2.1build1 amd64 library for encoding/decoding of Dirac video streams
ii libsdl1.2debian:amd64 1.2.15+dfsg1-3 amd64 Simple DirectMedia Layer
ii libseccomp2:amd64 2.2.3-3ubuntu3 amd64 high level interface to Linux seccomp filter
ii libsecret-1-0:amd64 0.18.4-1ubuntu2 amd64 Secret store
ii libsecret-1-0:i386 0.18.4-1ubuntu2 i386 Secret store
ii libsecret-common 0.18.4-1ubuntu2 all Secret store (common files)
ii libselinux1:amd64 2.4-3build2 amd64 SELinux runtime shared libraries
ii libselinux1:i386 2.4-3build2 i386 SELinux runtime shared libraries
ii libsemanage-common 2.3-1build3 all Common files for SELinux policy management libraries
ii libsemanage1:amd64 2.3-1build3 amd64 SELinux policy management library
ii libsensors4:amd64 1:3.4.0-2 amd64 library to read temperature/voltage/fan sensors
ii libsepol1:amd64 2.4-2 amd64 SELinux library for manipulating binary security policies
ii libservlet2.5-java 6.0.45+dfsg-1 all Servlet 2.5 and JSP 2.1 Java API classes
ii libservlet3.1-java 8.0.32-1ubuntu1.3 all Servlet 3.1, JSP 2.3, EL 3.0 and WebSocket 1.0 Java API classes
ii libsgutils2-2 1.40-0ubuntu1 amd64 utilities for devices using the SCSI command set (shared libraries)
ii libshine3:amd64 3.1.0-4 amd64 Fixed-point MP3 encoding library - runtime files
ii libshout3:amd64 2.3.1-3 amd64 MP3/Ogg Vorbis broadcast streaming library
ii libshout3:i386 2.3.1-3 i386 MP3/Ogg Vorbis broadcast streaming library
ii libsidplay1v5 1.36.59-8 amd64 SID (MOS 6581) emulation library
ii libsigc++-2.0-0v5:amd64 2.6.2-1 amd64 type-safe Signal Framework for C++ - runtime
ii libsignon-extension1:amd64 8.58+16.04.20151106-0ubuntu1 amd64 Single

Sign On framework
ii libsignon-glib1:amd64 1.13+16.04.20151209.1-0ubuntu1 amd64 library for signond
ii libsignon-plugins-common1:amd64 8.58+16.04.20151106-0ubuntu1 amd64 Single Sign On framework
ii libsignon-qt5-1:amd64 8.58+16.04.20151106-0ubuntu1 amd64 Single Sign On framework
ii libsigsegv2:amd64 2.10-4 amd64 Library for handling page faults in a portable way
ii libsisu-inject-java 0.3.2-1 all Dependency Injection container for Java
ii libsisu-plexus-java 0.3.2-1 all Plexus adapter for the Sisu dependency injection container
ii libslang2:amd64 2.3.0-2ubuntu1 amd64 S-Lang programming library - runtime version
ii libslang2:i386 2.3.0-2ubuntu1 i386 S-Lang programming library - runtime version
ii libslf4j-java 1.7.14-3 all Simple Logging Facade for Java
ii libsm-dev:amd64 2:1.2.2-1 amd64 X11 Session Management library (development headers)
ii libsm6:amd64 2:1.2.2-1 amd64 X11 Session Management library
ii libsm6:i386 2:1.2.2-1 i386 X11 Session Management library
ii libsmartcols1:amd64 2.27.1-6ubuntu3.2 amd64 smart column output alignment library
ii libsmbclient:amd64 2:4.3.11+dfsg-0ubuntu0.16.04.3 amd64 shared library for communication with SMB/CIFS servers
ii libsnapd-glib1:amd64 1.2-0ubuntu1.1~xenial amd64 GLib snapd library
ii libsnappy1v5:amd64 1.1.3-2 amd64 fast compression/decompression library
ii libsndfile1:amd64 1.0.25-10 amd64 Library for reading/writing audio files
ii libsndfile1:i386 1.0.25-10 i386 Library for reading/writing audio files
ii libsnmp-base 5.7.3+dfsg-1ubuntu4 all SNMP configuration script, MIBs and documentation
ii libsnmp30:amd64 5.7.3+dfsg-1ubuntu4 amd64 SNMP (Simple Network Management Protocol) library
ii libsocket6-perl 0.25-1build2 amd64 Perl extensions for IPv6
ii libsodium18:amd64 1.0.8-5 amd64 Network communication, cryptography and signaturing library
ii libsonic0:amd64 0.2.0-3 amd64 Simple library to speed up or slow down speech
ii libsoundtouch1:amd64 1.9.2-2 amd64 Sound stretching

library
ii libsoup-gnome2.4-1:amd64 2.52.2-1ubuntu0.1 amd64 HTTP library implementation in C -- GNOME support library
ii libsoup2.4-1:amd64 2.52.2-1ubuntu0.1 amd64 HTTP library implementation in C -- Shared library
ii libsoup2.4-1:i386 2.52.2-1ubuntu0.1 i386 HTTP library implementation in C -- Shared library
ii libsoxr0:amd64 0.1.2-1 amd64 High quality 1D sample-rate conversion library
ii libspandsp2:amd64 0.0.6-2.1 amd64 Telephony signal processing library
ii libspectre1:amd64 0.2.7-3ubuntu2 amd64 Library for rendering PostScript documents
ii libspeechd2:amd64 0.8.3-1ubuntu3 amd64 Speech Dispatcher: Shared libraries
ii libspeex1:amd64 1.2~rc1.2-1ubuntu1 amd64 The Speex codec runtime library
ii libspeex1:i386 1.2~rc1.2-1ubuntu1 i386 The Speex codec runtime library
ii libspeexdsp1:amd64 1.2~rc1.2-1ubuntu1 amd64 The Speex extended runtime library
ii libspeexdsp1:i386 1.2~rc1.2-1ubuntu1 i386 The Speex extended runtime library
ii libsqlite3-0:amd64 3.11.0-1ubuntu1 amd64 SQLite 3 shared library
ii libsqlite3-0:i386 3.11.0-1ubuntu1 i386 SQLite 3 shared library
ii libsrtp0 1.4.5~20130609~dfsg-1.1ubuntu1 amd64 Secure RTP (SRTP) and UST Reference Implementations - shared library
ii libss2:amd64 1.42.13-1ubuntu1 amd64 command-line interface parsing library
ii libssh-4:amd64 0.6.3-4.3 amd64 tiny C SSH library (OpenSSL flavor)
ii libssh-gcrypt-4:amd64 0.6.3-4.3 amd64 tiny C SSH library (gcrypt flavor)
ii libssl-dev:amd64 1.0.2g-1ubuntu4.6 amd64 Secure Sockets Layer toolkit - development files
ii libssl-doc 1.0.2g-1ubuntu4.6 all Secure Sockets Layer toolkit - development documentation
ii libssl1.0.0:amd64 1.0.2g-1ubuntu4.6 amd64 Secure Sockets Layer toolkit - shared libraries
ii libssl1.0.0:i386 1.0.2g-1ubuntu4.6 i386 Secure Sockets Layer toolkit - shared libraries
ii libstartup-notification0:amd64 0.12-4build1 amd64 library for program launch feedback (shared library)
ii libstdc++-4.9-dev:amd64 4.9.3-13ubuntu2 amd64 GNU Standard C++ Library v3 (development files)
ii libstdc++-5-dev:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GNU Standard C++ Library v3 (development files)

ii libstdc++6:amd64 5.4.0-6ubuntu1~16.04.4 amd64 GNU Standard C++ Library v3
ii libstdc++6:i386 5.4.0-6ubuntu1~16.04.4 i386 GNU Standard C++ Library v3
ii libsub-name-perl 0.14-1build1 amd64 module for assigning a new name to referenced sub
ii libsuitesparseconfig4.4.6:amd64 1:4.4.6-1 amd64 configuration routines for all SuiteSparse modules
ii libswresample-dev:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library for audio resampling, rematrixing etc. - development files
ii libswresample-ffmpeg1:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library for audio resampling, rematrixing etc. - runtime files
ii libswscale-dev:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library for image scaling and various conversions - development files
ii libswscale-ffmpeg3:amd64 7:2.8.10-0ubuntu0.16.04.1 amd64 FFmpeg library for image scaling and various conversions - runtime files
ii libsynctex1:amd64 2015.20160222.37495-1 amd64 TeX Live: SyncTeX parser library
ii libsys-hostname-long-perl 1.5-1 all Figure out the long (fully-qualified) hostname
ii libsystemd0:amd64 229-4ubuntu16 amd64 systemd utility library
ii libsystemd0:i386 229-4ubuntu16 i386 systemd utility library
ii libtablelayout-java 20090826-2 all Java layout manager for creating user interfaces fast and easy
ii libtag1v5:amd64 1.9.1-2.4ubuntu1 amd64 audio meta-data library
ii libtag1v5:i386 1.9.1-2.4ubuntu1 i386 audio meta-data library
ii libtag1v5-vanilla:amd64 1.9.1-2.4ubuntu1 amd64 audio meta-data library - vanilla flavour
ii libtag1v5-vanilla:i386 1.9.1-2.4ubuntu1 i386 audio meta-data library - vanilla flavour
ii libtalloc2:amd64 2.1.5-2 amd64 hierarchical pool based memory allocator
ii libtasn1-6:amd64 4.7-3ubuntu0.16.04.1 amd64 Manage ASN.1 structures (runtime)
ii libtasn1-6:i386 4.7-3ubuntu0.16.04.1 i386 Manage ASN.1 structures (runtime)
ii libtbb2:amd64 4.4~20151115-0ubuntu3 amd64 parallelism library for
C++ - runtime files
ii libtcl8.6:amd64 8.6.5+dfsg-2 amd64 Tcl (the Tool Command Language) v8.6 - run-time library files
ii libtdb1:amd64 1.3.8-2 amd64 Trivial Database - shared library
ii libtelepathy-glib0:amd64 0.24.1-1.1 amd64 Telepathy framework - GLib library

ii libtevent0:amd64 0.9.28-0ubuntu0.16.04.1 amd64 talloc-based event loop library - shared library
ii libtexlua52:amd64 2015.20160222.37495-1 amd64 TeX Live: Lua 5.2, modified for use with LuaTeX
ii libtexluajit2:amd64 2015.20160222.37495-1 amd64 TeX Live: LuaJIT,
modified for use with LuaJITTeX
ii libtext-charwidth-perl 0.04-7build5 amd64 get display widths of characters on the terminal
ii libtext-iconv-perl 1.7-5build4 amd64 converts between character sets in Perl
ii libtext-levenshtein-perl 0.13-1 all implementation of the Levenshtein edit distance
ii libtext-wrapi18n-perl 0.06-7.1 all internationalized substitute of Text::Wrap
ii libthai-data 0.1.24-2 all Data files for Thai language support library
ii libthai0:amd64 0.1.24-2 amd64
Thai language support library
ii libthai0:i386 0.1.24-2 i386 Thai language support library
ii libtheora0:amd64 1.1.1+dfsg.1-8 amd64 Theora Video Compression Codec
ii libtheora0:i386 1.1.1+dfsg.1-8 i386 Theora Video Compression Codec
ii libtie-ixhash-perl 1.23-2 all Perl module to order associative arrays
ii libtiff5:amd64 4.0.6-1 amd64 Tag Image File Format (TIFF) library
ii libtiff5:i386 4.0.6-1 i386 Tag Image File Format (TIFF) library
ii libtiff5-dev:amd64
4.0.6-1 amd64 Tag Image File Format library (TIFF), development files
ii libtiffxx5:amd64 4.0.6-1 amd64 Tag Image File Format (TIFF) library -- C++ interface
ii libtimedate-perl 2.3000-2 all collection of modules to manipulate date/time information
ii libtimezonemap-data 0.4.5 all GTK+3 timezone map widget - data files
ii libtimezonemap1:amd64 0.4.5 amd64 GTK+3 timezone map widget
ii libtinfo-dev:amd64 6.0+20160213-1ubuntu1 amd64 developer's library for the low-level terminfo library
ii
libtinfo5:amd64 6.0+20160213-1ubuntu1 amd64 shared low-level terminfo library for terminal handling
ii libtinfo5:i386 6.0+20160213-1ubuntu1 i386 shared low-level terminfo library for terminal handling

ii libtk8.6:amd64 8.6.5-1 amd64 Tk toolkit for Tcl and X11 v8.6 - run-time files
ii libtotem-plparser-common 3.10.6-1ubuntu1 all Totem Playlist Parser library - common files
ii libtotem-plparser18:amd64 3.10.6-1ubuntu1 amd64 Totem Playlist Parser library - runtime files
ii libtotem0:amd64 3.18.1-1ubuntu4 amd64 Main library for the Totem media player
ii libtracker-sparql-1.0-0:amd64 1.6.2-0ubuntu1.1 amd64 metadata database, indexer and search tool - library
ii libtsan0:amd64 5.4.0-6ubuntu1~16.04.4 amd64 ThreadSanitizer -- a Valgrind-based detector of data races (runtime)
ii libtwolame0:amd64 0.3.13-1.2 amd64 MPEG Audio Layer 2 encoding library
ii libtxc-dxtn-s2tc0:amd64 0~git20131104-1.1 amd64 Texture compression library for Mesa
ii libtxc-dxtn-s2tc0:i386 0~git20131104-1.1 i386 Texture compression library for Mesa
ii libubsan0:amd64 5.4.0-6ubuntu1~16.04.4 amd64 UBSan -- undefined behaviour sanitizer (runtime)
ii libubuntugestures5:amd64 1.3.1918+16.04.20160404-0ubuntu1 amd64 Ubuntu gestures library for Ubuntu UI Toolkit
ii libubuntutoolkit5:amd64 1.3.1918+16.04.20160404-0ubuntu1 amd64 Ubuntu toolkit common library for Ubuntu UI Toolkit
ii libudev1:amd64 229-4ubuntu16 amd64 libudev shared library
ii libudev1:i386 229-4ubuntu16 i386 libudev shared library
ii libudisks2-0:amd64 2.1.7-1ubuntu1 amd64 GObject based library to access udisks2
ii libunistring0:amd64 0.9.3-5.2ubuntu1 amd64 Unicode string library for C
ii libunity-action-qt1:amd64 1.1.0+14.04.20140304-0ubuntu2~gcc5.1 amd64 Unity Action Qt API
ii libunity-control-center1 15.04.0+16.04.20160705-0ubuntu1 amd64 utilities to configure the GNOME desktop
ii libunity-core-6.0-9:amd64 7.4.0+16.04.20160906-0ubuntu1 amd64 core library for the Unity interface
ii libunity-gtk2-parser0:amd64 0.0.0+15.04.20150118-0ubuntu2 amd64 GtkMenuShell to GMenuModel parser
ii libunity-gtk3-parser0:amd64 0.0.0+15.04.20150118-0ubuntu2 amd64 GtkMenuShell to GMenuModel parser
ii libunity-misc4 4.0.5+14.04.20140115-0ubuntu1 amd64 Miscellaneous functions for Unity - shared library
ii libunity-protocol-private0:amd64 7.1.4+16.04.20160701-0ubuntu1 amd64 binding to get places into the launcher - private library
ii libunity-scopes-json-def-desktop 7.1.4+16.04.20160701-0ubuntu1 all binding to

get places into the launcher - desktop def file
ii libunity-settings-daemon1:amd64 15.04.1+16.04.20160701-0ubuntu1 amd64
Helper library for accessing settings
ii libunity-webapps0:amd64 2.5.0~+16.04.20160201-0ubuntu1 amd64 Web
Apps integration with the Unity desktop
ii libunity9:amd64 7.1.4+16.04.20160701-0ubuntu1 amd64 binding to get
places into the launcher - shared library
ii libunwind8 1.1-4.1 amd64 library to determine the
call-chain of a program
- runtime
ii libupower-glib3:amd64 0.99.4-2ubuntu0.3 amd64 abstraction for
power management - shared library
ii liburi-perl 1.71-1 all module to manipulate and access
URI strings
ii liburl-dispatcher1:amd64 0.1+16.04.20151110-0ubuntu2 amd64 library for
sending requests to the url dispatcher
ii libusb-0.1-4:amd64 2:0.1.12-28 amd64 userspace USB
programming library
ii libusb-1.0-0:amd64 2:1.0.20-1 amd64 userspace USB
programming library
ii libusbmuxd4:amd64 1.0.10-2ubuntu0.1 amd64 USB multiplexor
daemon for iPhone and iPod
Touch devices - library
ii libustr-1.0-1:amd64 1.0.4-5 amd64 Micro string library:
shared library
ii libutempter0:amd64 1.1.6-3 amd64 privileged helper for
utmp/wtmp updates (runtime)
ii libuuid-perl 0.24-1build1 amd64 Perl extension for using
UUID interfaces as defined in e2fsprogs
ii libuuid1:amd64 2.27.1-6ubuntu3.2 amd64 Universally Unique
ID library
ii libuuid1:i386 2.27.1-6ubuntu3.2 i386 Universally Unique ID
library
ii libuv1:amd64 1.8.0-1 amd64 asynchronous event
notification
library - runtime library
ii libuv1-dev:amd64 1.8.0-1 amd64 asynchronous event
notification library - development files
ii libv4l-0:amd64 1.10.0-1 amd64 Collection of video4linux
support libraries
ii libv4l-0:i386 1.10.0-1 i386 Collection of video4linux
support libraries
ii libv4lconvert0:amd64 1.10.0-1 amd64 Video4linux frame
format conversion library
ii libv4lconvert0:i386 1.10.0-1 i386 Video4linux frame format
conversion library
ii libva1:amd64 1.7.0-1 amd64

Video Acceleration (VA) API for Linux -- runtime
ii libvdpau1:amd64 1.1.1-3ubuntu1 amd64 Video Decode and Presentation API for Unix (libraries)
ii libvisio-0.1-1:amd64 0.1.5-1ubuntu1 amd64 library for parsing the visio file structure
ii libvisual-0.4-0:amd64 0.4.0-8 amd64 audio visualization framework
ii libvisual-0.4-0:i386 0.4.0-8 i386 audio visualization framework
ii libvncclient1:amd64 0.9.10+dfsg-3ubuntu0.16.04.1 amd64 API to write one's own VNC server - client library
ii libvo-aacenc0:amd64 0.1.3-1 amd64
VisualOn AAC encoder library
ii libvo-amrwbenc0:amd64 0.1.3-1 amd64 VisualOn AMR-WB encoder library
ii libvorbis0a:amd64 1.3.5-3 amd64 decoder library for Vorbis General Audio Compression Codec
ii libvorbis0a:i386 1.3.5-3 i386 decoder library for Vorbis General Audio Compression Codec
ii libvorbisenc2:amd64 1.3.5-3 amd64 encoder library for Vorbis General Audio Compression Codec
ii libvorbisenc2:i386 1.3.5-3 i386 encoder library for Vorbis General Audio Compression Codec
ii libvorbisfile3:amd64 1.3.5-3
amd64 high-level API for Vorbis General Audio Compression Codec
ii libvpx3:amd64 1.5.0-2ubuntu1 amd64 VP8 and VP9 video codec (shared library)
ii libvpx3:i386 1.5.0-2ubuntu1 i386 VP8 and VP9 video codec (shared library)
ii libvte-2.91-0:amd64 0.42.5-1ubuntu1 amd64 Terminal emulator widget for GTK+ 3.0 - runtime files
ii libvte-2.91-common 0.42.5-1ubuntu1 all Terminal emulator widget for GTK+ 3.0 - common files
ii libwacom-bin 0.18-1 amd64 Wacom model feature query library -- binaries
ii libwacom-common
0.18-1 all Wacom model feature query library (common files)
ii libwacom2:amd64 0.18-1 amd64 Wacom model feature query library
ii libwagon-java 1.0.0-7 all tools to manage Maven artifacts and deployment
ii libwagon2-java 2.10-3 all resources' transport abstraction that is used in Maven
ii libwavpack1:amd64 4.75.2-2 amd64 audio codec (lossy and lossless) - library
ii libwavpack1:i386 4.75.2-2 i386 audio codec (lossy and lossless) - library
ii libwayland-client0:amd64

1.9.0-1 amd64 wayland compositor infrastructure - client library
ii libwayland-client0:i386 1.9.0-1 i386 wayland compositor infrastructure - client library
ii libwayland-cursor0:amd64 1.9.0-1 amd64 wayland compositor infrastructure - cursor library
ii libwayland-egl1-mesa:amd64 11.2.0-1ubuntu2.2 amd64 implementation of the Wayland EGL platform -- runtime
ii libwayland-server0:amd64 1.9.0-1 amd64 wayland compositor infrastructure - server library
ii libwayland-server0:i386 1.9.0-1 i386 wayland compositor infrastructure - server library
ii libwbclient0:amd64 2:4.3.11+dfsg-0ubuntu0.16.04.3 amd64 Samba winbind client library
ii libwebkit2gtk-4.0-37:amd64 2.14.3-0ubuntu0.16.04.1 amd64 Web content engine library for GTK+
ii libwebkit2gtk-4.0-37-gtk2:amd64 2.14.3-0ubuntu0.16.04.1 amd64 Web content engine library for GTK+ - GTK+2 plugin process
ii libwebkitgtk-1.0-0:i386 2.4.11-0ubuntu0.1 i386 Web content engine library for GTK+
ii libwebkitgtk-1.0-common 2.4.11-0ubuntu0.1 all Web content engine library for GTK+ - data files
ii libwebp5:amd64 0.4.4-1 amd64 Lossy compression of digital photographic images.
ii libwebp5:i386 0.4.4-1 i386 Lossy compression of digital photographic images.
ii libwebpmux1:amd64 0.4.4-1 amd64 Lossy compression of digital photographic images.
ii libwebrtc-audio-processing-0:amd64 0.1-3ubuntu1~gcc5.1 amd64 AudioProcessing module from the WebRTC project.
ii libwhoopsie-preferences0 0.18 amd64 Ubuntu error tracker submission settings - shared library
ii libwhoopsie0:amd64 0.2.52.2 amd64 Ubuntu error tracker submission - shared library
ii libwildmidi-config 0.3.8-2 all software MIDI player configuration
ii libwildmidi1:amd64 0.3.8-2 amd64 software MIDI player library
ii libwind0-heimdal:amd64 1.7~git20150920+dfsg-4ubuntu1 amd64 Heimdal Kerberos - stringprep implementation
ii libwinpr-crt0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (crt library)
ii libwinpr-dsparse0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (dsparse library)
ii libwinpr-environment0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64 Windows Portable Runtime library (environment library)
ii libwinpr-file0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64

Windows
Portable Runtime library (file library)
ii libwinpr-handle0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64
Windows Portable Runtime library (handle library)
ii libwinpr-heap0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64
Windows Portable Runtime library (heap library)
ii libwinpr-input0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64
Windows Portable Runtime library (input library)
ii libwinpr-interlocked0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64
Windows Portable Runtime library (interlocked library)
ii libwinpr-library0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64
Windows Portable Runtime library (library)
ii libwinpr-path0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1
amd64 Windows Portable Runtime library (path library)
ii libwinpr-pool0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64
Windows Portable Runtime library (pool library)
ii libwinpr-registry0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64
Windows Portable Runtime library (registry library)
ii libwinpr-rpc0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64
Windows Portable Runtime library (RPC library)
ii libwinpr-sspi0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64
Windows Portable Runtime library (sspi library)
ii libwinpr-synch0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64
Windows Portable Runtime library (synch library)
ii libwinpr-sysinfo0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1
amd64 Windows Portable Runtime library (sysinfo library)
ii libwinpr-thread0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64
Windows Portable Runtime library (thread library)
ii libwinpr-utils0.1:amd64 1.1.0~git20140921.1.440916e+dfsg1-5ubuntu1 amd64
Windows Portable Runtime library (utils library)
ii libwmf0.2-7:amd64 0.2.8.4-10.5ubuntu1 amd64 Windows metafile
conversion library
ii libwmf0.2-7-gtk 0.2.8.4-10.5ubuntu1 amd64 Windows metafile
conversion library
ii libwnck-3-0:amd64 3.14.1-2 amd64 Window Navigator
Construction Kit - runtime files
ii libwnck-3-common
3.14.1-2 all Window Navigator Construction Kit - common files
ii libwpd-0.10-10:amd64 0.10.1-1ubuntu1 amd64 Library for
handling WordPerfect documents (shared library)
ii libwpg-0.3-3:amd64 0.3.1-1ubuntu1 amd64 WordPerfect
graphics import/convert library (shared library)
ii libwps-0.4-4:amd64 0.4.3-1ubuntu1 amd64 Works text file
format import filter library (shared library)
ii libwrap0:amd64 7.6.q-25 amd64 Wietse Venema's TCP
wrappers library
ii libwrap0:i386 7.6.q-25 i386 Wietse Venema's TCP
wrappers library

ii libwww-perl
6.15-1 all simple and consistent interface to the world-wide web
ii libwww-robotrules-perl 6.01-1 all database of robots.txt-derived permissions
ii libx11-6:amd64 2:1.6.3-1ubuntu2 amd64 X11 client-side library
ii libx11-6:i386 2:1.6.3-1ubuntu2 i386 X11 client-side library
ii libx11-data 2:1.6.3-1ubuntu2 all X11 client-side library
ii libx11-dev:amd64 2:1.6.3-1ubuntu2 amd64 X11 client-side library (development headers)
ii libx11-doc
2:1.6.3-1ubuntu2 all X11 client-side library (development documentation)
ii libx11-protocol-perl 0.56-7 all Perl module for the X Window System Protocol, version 11
ii libx11-xcb-dev:amd64 2:1.6.3-1ubuntu2 amd64 Xlib/XCB interface library (development headers)
ii libx11-xcb1:amd64 2:1.6.3-1ubuntu2 amd64 Xlib/XCB interface library
ii libx11-xcb1:i386 2:1.6.3-1ubuntu2 i386 Xlib/XCB interface library
ii libx264-148:amd64 2:0.148.2643+git5c65704-1 amd64 x264 video coding library
ii libx265-79:amd64 1.9-3
amd64 H.265/HEVC video stream encoder (shared library)
ii libx86-1:amd64 1.1+ds1-10 amd64 x86 real-mode library
ii libxalan2-java 2.7.1-9 all XSL Transformations (XSLT) processor in Java
ii libxapian22v5:amd64 1.2.22-2 amd64 Search engine library
ii libxatracker2:amd64 11.2.0-1ubuntu2.2 amd64 X acceleration library -- runtime
ii libxau-dev:amd64 1:1.0.8-1 amd64 X11 authorisation library (development headers)
ii libxau6:amd64 1:1.0.8-1 amd64 X11
authorisation library
ii libxau6:i386 1:1.0.8-1 i386 X11 authorisation library
ii libxaw7:amd64 2:1.0.13-1 amd64 X11 Athena Widget library
ii libxbean-java 4.5-1 all plugin based Java application server
ii libxcb-dri2-0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, dri2 extension
ii libxcb-dri2-0:i386 1.11.1-1ubuntu1 i386 X C Binding, dri2 extension
ii libxcb-dri2-0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, dri2 extension, development files
ii libxcb-dri3-0:amd64

1.11.1-1ubuntu1 amd64 X C Binding, dri3 extension
ii libxcb-dri3-0:i386 1.11.1-1ubuntu1 i386 X C Binding, dri3 extension
ii libxcb-dri3-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, dri3 extension, development files
ii libxcb-glx0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, glx extension
ii libxcb-glx0:i386 1.11.1-1ubuntu1 i386 X C Binding, glx extension
ii libxcb-glx0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, glx extension, development files
ii libxcb-icccm4:amd64 0.4.1-1ubuntu1
amd64 utility libraries for X C Binding -- icccm
ii libxcb-image0:amd64 0.4.0-1build1 amd64 utility libraries for X C Binding -- image
ii libxcb-keysyms1:amd64 0.4.0-1 amd64 utility libraries for X C Binding -- keysyms
ii libxcb-present-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, present extension, development files
ii libxcb-present0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, present extension
ii libxcb-present0:i386 1.11.1-1ubuntu1 i386 X C Binding, present extension
ii libxcb-randr0:amd64 1.11.1-1ubuntu1 amd64
X C Binding, randr extension
ii libxcb-randr0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, randr extension, development files
ii libxcb-render-util0:amd64 0.3.9-1 amd64 utility libraries for X C Binding -- render-util
ii libxcb-render0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, render extension
ii libxcb-render0:i386 1.11.1-1ubuntu1 i386 X C Binding, render extension
ii libxcb-render0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, render extension, development files
ii libxcb-shape0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, shape extension
ii
libxcb-shape0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, shape extension, development files
ii libxcb-shm0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, shm extension
ii libxcb-shm0:i386 1.11.1-1ubuntu1 i386 X C Binding, shm extension
ii libxcb-shm0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, shm extension, development files
ii libxcb-sync-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, sync extension, development files

ii libxcb-sync1:amd64 1.11.1-1ubuntu1 amd64 X C Binding, sync extension
ii libxcb-sync1:i386 1.11.1-1ubuntu1 i386 X C Binding, sync extension
ii libxcb-util1:amd64 0.4.0-0ubuntu3 amd64 utility libraries for X C Binding -- atom, aux and event
ii libxcb-xfixes0:amd64 1.11.1-1ubuntu1 amd64 X C Binding, xfixes extension
ii libxcb-xfixes0:i386 1.11.1-1ubuntu1 i386 X C Binding, xfixes extension
ii libxcb-xfixes0-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, xfixes extension, development files
ii libxcb-xkb1:amd64 1.11.1-1ubuntu1 amd64 X C Binding, XKEYBOARD extension
ii libxcb1:amd64 1.11.1-1ubuntu1 amd64 X C Binding
ii libxcb1:i386 1.11.1-1ubuntu1 i386 X C Binding
ii libxcb1-dev:amd64 1.11.1-1ubuntu1 amd64 X C Binding, development files
ii libxcomposite-dev 1:0.4.4-1 amd64 X11 Composite extension library (development headers)
ii libxcomposite1:amd64 1:0.4.4-1 amd64 X11 Composite extension library
ii libxcomposite1:i386 1:0.4.4-1 i386 X11 Composite extension library
ii libxcursor-dev:amd64 1:1.1.14-1 amd64 X cursor management library (development files)
ii libxcursor1:amd64 1:1.1.14-1 amd64 X cursor management library
ii libxcursor1:i386 1:1.1.14-1 i386 X cursor management library
ii libxdamage-dev:amd64 1:1.1.4-2 amd64 X11 damaged region extension library (development headers)
ii libxdamage1:amd64 1:1.1.4-2 amd64 X11 damaged region extension library
ii libxdamage1:i386 1:1.1.4-2 i386 X11 damaged region extension library
ii libxdmcp-dev:amd64 1:1.1.2-1.1 amd64 X11 authorisation library (development headers)
ii libxdmcp6:amd64 1:1.1.2-1.1 amd64 X11 Display Manager Control Protocol library
ii libxdmcp6:i386 1:1.1.2-1.1 i386 X11 Display Manager Control Protocol library
ii libxerces2-java 2.11.0-7 all Validating XML parser for Java with DOM level 3 support
ii libxext-dev:amd64 2:1.3.3-1 amd64 X11 miscellaneous

extensions library (development headers)
ii libxext6:amd64 2:1.3.3-1 amd64 X11 miscellaneous extension library
ii libxext6:i386 2:1.3.3-1 i386 X11 miscellaneous extension library
ii libxfixes-dev:amd64 1:5.0.1-2 amd64 X11 miscellaneous 'fixes' extension library (development headers)
ii libxfixes3:amd64 1:5.0.1-2 amd64 X11 miscellaneous 'fixes' extension library
ii libxfixes3:i386 1:5.0.1-2 i386 X11 miscellaneous 'fixes' extension library
ii libxfont1:amd64 1:1.5.1-1 amd64 X11 font rasterisation library
ii libxft-dev 2.3.2-1 amd64 FreeType-based font drawing library for X (development files)
ii libxft2:amd64 2.3.2-1 amd64 FreeType-based font drawing library for X
ii libxi-dev 2:1.7.6-1 amd64 X11 Input extension library (development headers)
ii libxi6:amd64 2:1.7.6-1 amd64 X11 Input extension library
ii libxi6:i386 2:1.7.6-1 i386 X11 Input extension library
ii libxinerama-dev:amd64 2:1.1.3-1 amd64 X11 Xinerama extension library (development headers)
ii libxinerama1:amd64 2:1.1.3-1 amd64 X11 Xinerama extension library
ii libxinerama1:i386 2:1.1.3-1 i386 X11 Xinerama extension library
ii libxkbcommon-x11-0:amd64 0.5.0-1ubuntu2 amd64 library to create keymaps with the XKB X11 protocol
ii libxkbcommon0:amd64 0.5.0-1ubuntu2 amd64 library interface to the XKB compiler - shared library
ii libxkbfile1:amd64 1:1.0.9-0ubuntu1 amd64 X11 keyboard file manipulation library
ii libxklavier16:amd64 5.4-0ubuntu2 amd64 X Keyboard Extension high-level API
ii libxml-commons-external-java 1.4.01-2build1 all XML Commons external code - DOM, SAX, and JAXP, etc
ii libxml-commons-resolver1.1-java 1.2-7build1 all XML entity and URI resolver library
ii libxml-dom-perl 1.44-2 all Perl module for building DOM Level 1 compliant doc structures
ii libxml-parser-perl 2.44-1build1 amd64 Perl module for parsing XML files
ii libxml-perl 0.08-2 all Perl modules for working with

XML
ii libxml-regexp-perl 0.04-1 all Perl module for regular expressions for XML tokens
ii libxml-twig-perl 1:3.48-1 all Perl module for processing huge XML documents in tree mode
ii libxml-xpathengine-perl 0.13-1 all re-usable XPath engine for DOM-like
trees
ii libxml2:amd64 2.9.3+dfsg1-1ubuntu0.1 amd64 GNOME XML library
ii libxml2:i386 2.9.3+dfsg1-1ubuntu0.1 i386 GNOME XML library
ii libxml2-dev:amd64 2.9.3+dfsg1-1ubuntu0.1 amd64 Development files for the GNOME XML library
ii libxml2-utils 2.9.3+dfsg1-1ubuntu0.1 amd64 XML utilities
ii libxmu6:amd64 2:1.1.2-2 amd64 X11 miscellaneous utility library
ii libxmuu1:amd64 2:1.1.2-2 amd64 X11 miscellaneous micro-utility library
ii libxom-java 1.2.10-1
all New XML object model for Java
ii libxpm4:amd64 1:3.5.11-1ubuntu0.16.04.1 amd64 X11 pixmap library
ii libxpp2-java 2.1.10-7build1 all XML pull parser library for java V2
ii libxpp3-java 1.1.4c-2build1 all XML pull parser library for java
ii libxrandr-dev:amd64 2:1.5.0-1 amd64 X11 RandR extension library (development headers)
ii libxrandr2:amd64 2:1.5.0-1 amd64 X11 RandR extension library
ii libxrandr2:i386 2:1.5.0-1 i386 X11 RandR extension library
ii
libxrender-dev:amd64 1:0.9.9-0ubuntu1 amd64 X Rendering Extension client library (development files)
ii libxrender1:amd64 1:0.9.9-0ubuntu1 amd64 X Rendering Extension client library
ii libxrender1:i386 1:0.9.9-0ubuntu1 i386 X Rendering Extension client library
ii libxres1:amd64 2:1.0.7-1 amd64 X11 Resource extension library
ii libxshmfence-dev:amd64 1.2-1 amd64 X shared memory fences - development files
ii libxshmfence1:amd64 1.2-1 amd64 X shared memory fences - shared library
ii libxshmfence1:i386

1.2-1 i386 X shared memory fences - shared library
ii libxslt1.1:amd64 1.1.28-2.1 amd64 XSLT 1.0 processing library - runtime library
ii libxslt1.1:i386 1.1.28-2.1 i386 XSLT 1.0 processing library - runtime library
ii libxss1:amd64 1:1.2.2-1 amd64 X11 Screen Saver extension library
ii libxss1:i386 1:1.2.2-1 i386 X11 Screen Saver extension library
ii libxt6:amd64 1:1.1.5-0ubuntu1 amd64 X11 toolkit intrinsics library
ii libxt6:i386 1:1.1.5-0ubuntu1 i386 X11 toolkit intrinsics library
ii libxtables11:amd64 1.6.0-2ubuntu3 amd64 netfilter xtables library
ii libxtst6:amd64 2:1.2.2-1 amd64 X11 Testing -- Record extension library
ii libxtst6:i386 2:1.2.2-1 i386 X11 Testing -- Record extension library
ii libxv1:amd64 2:1.0.10-1 amd64 X11 Video extension library
ii libxv1:i386 2:1.0.10-1 i386 X11 Video extension library
ii libxvidcore4:amd64 2:1.3.4-1 amd64 Open source MPEG-4 video codec (library)
ii libxvmc1:amd64 2:1.0.9-1ubuntu1 amd64 X11 Video extension library
ii libxxf86dga1:amd64 2:1.1.4-1 amd64 X11 Direct Graphics Access extension library
ii libxxf86vm-dev:amd64 1:1.1.4-1 amd64 X11 XFree86 video mode extension library (development headers)
ii libxxf86vm1:amd64 1:1.1.4-1 amd64 X11 XFree86 video mode extension library
ii libxxf86vm1:i386 1:1.1.4-1 i386 X11 XFree86 video mode extension library
ii libyajl2:amd64 2.1.0-2 amd64 Yet Another JSON Library
ii libyaml-0-2:amd64 0.1.6-3 amd64 Fast YAML 1.1 parser and emitter library
ii libyaml-libyaml-perl 0.41-6build1 amd64 Perl interface to libyaml, a YAML implementation
ii libyaml-tiny-perl 1.69-1 all Perl module for reading and writing YAML files
ii libyelp0:amd64 3.18.1-1ubuntu4 amd64 Library for the GNOME help browser
ii libzbar0:amd64 0.10+doc-10ubuntu1 amd64 bar code scanner and decoder (library)
ii libzeitgeist-1.0-1:amd64 0.3.18-1ubuntu3 amd64 library to access

Zeitgeist - shared library
ii libzeitgeist-2.0-0:amd64 0.9.16-0ubuntu4 amd64 library to access Zeitgeist - shared library
ii libzmq5:amd64 4.1.4-7 amd64 lightweight messaging kernel (shared library)
ii libzvbi-common 0.2.35-10 all Vertical Blanking Interval decoder (VBI) - common files
ii libzvbi0:amd64 0.2.35-10 amd64 Vertical Blanking Interval decoder (VBI) - runtime files
ii libzzip-0-13:amd64 0.13.62-3 amd64 library providing read access on ZIP-archives - library
ii light-themes 14.04+16.04.20161024-0ubuntu1 all Light Themes (Ambiance and Radiance)
ii lightdm 1.18.3-0ubuntu1 amd64 Display Manager
ii lintian 2.5.43 all Debian package checker
ii linux-base 4.0ubuntu1 all Linux image base package
ii linux-firmware 1.157.8 all Firmware for Linux kernel drivers
ii linux-generic 4.4.0.62.65 amd64 Complete Generic Linux kernel and headers
ii linux-headers-4.4.0-59 4.4.0-59.80 all Header files related to Linux kernel version 4.4.0
ii linux-headers-4.4.0-59-generic 4.4.0-59.80 amd64 Linux kernel headers for version 4.4.0 on 64 bit x86 SMP
ii linux-headers-4.4.0-62 4.4.0-62.83 all Header files related to Linux kernel version 4.4.0
ii linux-headers-4.4.0-62-generic 4.4.0-62.83 amd64 Linux kernel headers for version 4.4.0 on 64 bit x86 SMP
ii linux-headers-generic 4.4.0.62.65 amd64 Generic Linux kernel headers
rc linux-image-4.4.0-57-generic 4.4.0-57.78 amd64 Linux kernel image for version 4.4.0 on 64 bit x86 SMP
ii linux-image-4.4.0-59-generic 4.4.0-59.80 amd64 Linux kernel image for
version 4.4.0 on 64 bit x86 SMP
ii linux-image-4.4.0-62-generic 4.4.0-62.83 amd64 Linux kernel image for version 4.4.0 on 64 bit x86 SMP
rc linux-image-extra-4.4.0-57-generic 4.4.0-57.78 amd64 Linux kernel extra modules for version 4.4.0 on 64 bit x86 SMP
ii linux-image-extra-4.4.0-59-generic 4.4.0-59.80 amd64 Linux kernel extra modules for version 4.4.0 on 64 bit x86 SMP
ii linux-image-extra-4.4.0-62-generic 4.4.0-62.83 amd64 Linux kernel extra modules for version 4.4.0 on 64 bit x86 SMP
ii linux-image-generic 4.4.0.62.65 amd64 Generic Linux kernel image
ii linux-libc-dev:amd64 4.4.0-62.83

amd64 Linux Kernel Headers for development
ii linux-signed-generic 4.4.0.62.65 amd64 Complete Signed Generic Linux kernel and headers
rc linux-signed-image-4.4.0-57-generic 4.4.0-57.78 amd64 Signed kernel image generic
ii linux-signed-image-4.4.0-59-generic 4.4.0-59.80 amd64 Signed kernel image generic
ii linux-signed-image-4.4.0-62-generic 4.4.0-62.83 amd64 Signed kernel image generic
ii linux-signed-image-generic 4.4.0.62.65 amd64 Signed Generic Linux kernel image
ii linux-sound-base 1.0.25+dfsg-0ubuntu5 all base package for ALSA and OSS sound systems
ii linux-tools-4.4.0-59 4.4.0-59.80 amd64 Linux kernel version specific tools for version 4.4.0-59
ii linux-tools-4.4.0-59-generic 4.4.0-59.80 amd64 Linux kernel version specific tools for version 4.4.0-59
ii linux-tools-4.4.0-62 4.4.0-62.83 amd64 Linux kernel version specific tools for version 4.4.0-62
ii linux-tools-4.4.0-62-generic 4.4.0-62.83 amd64 Linux kernel version specific tools for version 4.4.0-62
ii linux-tools-common 4.4.0-62.83 all Linux kernel version specific tools for version 4.4.0
ii linux-tools-virtual 4.4.0.62.65 amd64 This package will always depend on the latest minimal generic kernel tools.
ii lldb 1:3.8-33ubuntu3.1 amd64 Next generation, high-performance debugger
ii lldb-3.8 1:3.8-2ubuntu4 amd64 Next generation, high-performance debugger
ii llvm-3.8 1:3.8-2ubuntu4 amd64 Modular compiler and toolchain technologies
ii llvm-3.8-dev 1:3.8-2ubuntu4 amd64 Modular compiler and toolchain technologies, libraries and headers
ii llvm-3.8-runtime 1:3.8-2ubuntu4 amd64 Modular compiler and toolchain technologies, IR interpreter
ii lmodern 2.004.5-1 all scalable PostScript and OpenType fonts based on Computer Modern
ii locales 2.23-0ubuntu5 all GNU C Library: National Language (locale) data [support]
ii login 1:4.2-3.1ubuntu5 amd64 system login tools
ii logrotate 3.8.7-2ubuntu2 amd64 Log rotation utility
ii lp-solve 5.5.0.13-7build2 amd64 Solve (mixed integer) linear programming problems
ii lsb-base 9.20160110ubuntu0.2 all Linux Standard Base init script functionality
ii lsb-release

9.20160110ubuntu0.2 all Linux Standard Base version reporting utility
ii lshw 02.17-1.1ubuntu3.2 amd64 information about hardware configuration
ii lsof 4.89+dfsg-0.1 amd64 Utility to list open files
ii ltrace 0.7.3-5.1ubuntu4 amd64 Tracks runtime library calls in dynamically linked programs
ii m4 1.4.17-5 amd64 macro processing language
ii make 4.1-6 amd64 utility for directing compilation
ii makedev 2.3.1-93ubuntu1 all creates device files in /dev
ii man-db 2.7.5-1 amd64 on-line manual pager
ii manpages 4.04-2 all Manual pages about using a GNU/Linux system
ii manpages-dev 4.04-2 all Manual pages about using GNU/Linux for development
ii mathpiper 0.81f+svn4469+dfsg3-3 all Java Computer Algebra System
ii maven 3.3.9-3 all Java software project management and comprehension tool
ii mawk 1.3.3-17ubuntu2 amd64 a pattern scanning and text processing language
ii media-player-info 22-2 all Media player identification files
ii memtest86+ 5.01-3ubuntu2 amd64 thorough real-mode memory tester
ii mesa-common-dev:amd64 11.2.0-1ubuntu2.2 amd64 Developer documentation for Mesa
ii mesa-vdpau-drivers:amd64 11.2.0-1ubuntu2.2 amd64 Mesa VDPAU video acceleration drivers
ii metacity-common 1:3.18.7-0ubuntu0.2 all shared files for the Metacity window manager
ii mime-support 3.59ubuntu1 all MIME files 'mime.types' & 'mailcap', and support programs
ii mlocate 0.26-1ubuntu2 amd64 quickly find files on the filesystem based on their name
ii mobile-broadband-provider-info 20140317-1 all database of mobile broadband service providers
ii modemmanager 1.4.12-1ubuntu1 amd64 D-Bus service for managing modems
ii mokutil 0.3.0-0ubuntu3 amd64 tools for manipulating machine owner keys
ii mongodb-org-server 3.0.14 amd64 MongoDB database server
ii mongodb-org-shell 3.0.14 amd64 MongoDB shell client
ii mongodb-org-tools 3.0.14 amd64 MongoDB tools

ii mono-4.0-gac 4.2.1.102+dfsg2-7ubuntu4 all Mono GAC tool (for CLI 4.0)
ii mono-csharp-shell 4.2.1.102+dfsg2-7ubuntu4 all interactive C# shell
ii mono-devel 4.2.1.102+dfsg2-7ubuntu4 all Mono development tools
ii mono-gac 4.2.1.102+dfsg2-7ubuntu4 all Mono GAC tool
ii mono-mcs 4.2.1.102+dfsg2-7ubuntu4 all Mono C# 2.0 / 3.0 / 4.0 / 5.0 compiler for CLI 2.0 / 4.0 / 4.5
ii mono-runtime 4.2.1.102+dfsg2-7ubuntu4 amd64 Mono runtime - default version
ii mono-runtime-common 4.2.1.102+dfsg2-7ubuntu4 amd64 Mono runtime - common files
ii mono-runtime-sgen 4.2.1.102+dfsg2-7ubuntu4 amd64 Mono runtime - SGen
ii mono-utils 4.2.1.102+dfsg2-7ubuntu4 amd64 Mono utilities
ii mono-xbuild 4.2.1.102+dfsg2-7ubuntu4 all MSBuild-compatible build system for Mono
ii mount 2.27.1-6ubuntu3.2 amd64 tools for mounting and manipulating filesystems
ii mountall 2.54ubuntu1 amd64 filesystem mounting tool
ii mousetweaks 3.12.0-1ubuntu2 amd64 mouse accessibility enhancements for the GNOME desktop
ii mscompress 0.4-3 amd64 Microsoft "compress.exe/expand.exe" compatible (de)compressor
ii mtools 4.0.18-2ubuntu0.16.04 amd64 Tools for manipulating MSDOS files
ii mtr-tiny 0.86-1ubuntu0.1 amd64 Full screen ncurses traceroute tool
ii multiarch-support 2.23-0ubuntu5 amd64 Transitional package to ensure multiarch compatibility
ii mysql-common 5.7.17-0ubuntu0.16.04.1 all MySQL database common files, e.g. /etc/mysql/my.cnf
ii mythes-en-au 2.1-5.4 all Australian English Thesaurus for OpenOffice.org
ii mythes-en-us 1:5.1.0-1ubuntu2.2 all English (USA) Thesaurus for LibreOffice
ii mythes-it 2.0.7.gh.deb1-4.1 all Italian Thesaurus for OpenOffice.org 2
ii nano 2.5.3-2ubuntu1 amd64 small, friendly text editor inspired by Pico
ii nautilus 1:3.18.4.is.3.14.3-0ubuntu5 amd64 file manager and graphical shell for GNOME
ii nautilus-data 1:3.18.4.is.3.14.3-0ubuntu5 all data files for nautilus
ii nautilus-sendto 3.8.2-1ubuntu1 amd64 integrates Evolution and Pidgin into the Nautilus file manager
ii nautilus-share 0.7.3-2ubuntu1 amd64 Nautilus extension to

share folder using Samba
ii ncurses-base 6.0+20160213-1ubuntu1 all basic terminal type definitions
ii ncurses-bin 6.0+20160213-1ubuntu1 amd64 terminal-related programs and man pages
ii net-tools 1.60-26ubuntu1 amd64 NET-3 networking toolkit
ii netbase 5.3 all Basic TCP/IP networking system
ii netcat-openbsd 1.105-7ubuntu1 amd64 TCP/IP swiss army knife
ii netpbm 2:10.0-15.3 amd64 Graphics conversion tools between image formats
ii network-manager 1.2.2-0ubuntu0.16.04.3 amd64 network management framework (daemon and userspace tools)
ii network-manager-gnome 1.2.0-0ubuntu0.16.04.4 amd64 network management framework (GNOME frontend)
ii network-manager-pptp 1.1.93-1ubuntu1 amd64 network management framework (PPTP plugin core)
ii network-manager-pptp-gnome 1.1.93-1ubuntu1 amd64 network management framework (PPTP plugin GNOME GUI)
ii node-abbrev 1.0.5-2 all Get unique abbreviations for a set of strings - Node.js module
ii node-ansi 0.3.0-2 all Advanced ANSI formatting tool for Node.js
ii node-ansi-color-table 1.0.0-1 all Color and format tables for ansi output - Node.js module
ii node-archy 0.0.2-1 all Pretty-print nested hierarchies module for Node.js
ii node-async 0.8.0-1 all higher-order functions and common patterns for asynchronous Javascript
ii node-block-stream 0.0.7-1 all Stream of fixed-size blocks, with zero-padding when necessary
ii node-combined-stream 0.0.5-1 all Append streams one after another - module for Node.js
ii node-cookie-jar 0.3.1-1 all Cookie handling for HTTP clients - module for Node.js
ii node-delayed-stream 0.0.5-1 all Buffer stream events for later handling - module for Node.js
ii node-forever-agent 0.5.1-1 all HTTP agent supporting keep-alive requests - module for Node.js
ii node-form-data 0.1.0-1 all Create multipart/form-data streams module for Node.js
ii node-fstream 0.1.24-1 all Advanced filesystem streaming tools for Node.js
ii node-fstream-ignore 0.0.6-2 all Directory reader

configurable by .ignore module for Node.js
ii node-github-url-from-git 1.1.1-1 all Convert github git or gist url to an http url - Node.js module
ii node-glob 4.0.5-1 all glob functionality for Node.js
ii node-graceful-fs 3.0.2-1 all drop-in replacement improving the Node.js fs module
ii node-gyp 3.0.3-2ubuntu1 all Native addon build tool for Node.js
ii node-inherits 2.0.1-3 all Exposes inherits function from Node.js environment
ii node-ini 1.1.0-1 all ini format parser and serializer for Node.js
ii node-json-stringify-safe 5.0.0-1 all JSON.stringify with circular references module for Node.js
ii node-lockfile 0.4.1-1 all Asynchronous file lock module for Node.js
ii node-lru-cache 2.3.1-1 all least-recently-used cache object for Node.js
ii node-mime 1.3.4-1 all library for mime-type mapping for Node.js
ii node-minimatch 1.0.0-1 all Convert glob expressions into RegExp objects for Node.js
ii node-mkdirp 0.5.0-1 all Recursively create directories - Node.js module
ii node-mute-stream 0.0.4-1 all Pass-through stream that can be muted module for Node.js
ii node-node-uuid 1.4.0-1 all simple, fast generation of RFC4122 UUIDs - Node module
ii node-nopt 3.0.1-1 all Command-line option parser for Node.js
ii node-normalize-package-data 0.2.2-1 all Normalizes package metadata - Node.js module
ii node-npmlog 0.0.4-1 all Logger with custom levels and colored output for Node.js
ii node-once 1.1.1-1 all Run a function only once with this module for Node.js
ii node-osenv 0.1.0-1 all Environment settings lookup module for Node.js
ii node-qs 2.2.4-1 all Parse, stringify query strings for Node.js
ii node-read 1.0.5-1 all Read user input from stdin module for Node.js
ii node-read-package-json 1.2.4-1 all Read package.json for npm module for Node.js
ii node-request 2.26.1-1 all simplified HTTP request client module for Node.js
ii node-retry 0.6.0-1 all Retry strategies for failed operations module for Node.js

ii node-rimraf 2.2.8-1 all Deep deletion (like rm -rf) module for Node.js
ii node-semver 2.1.0-2 all Semantic Versioning for Node.js
ii node-sha 1.2.3-1 all Check and get file or stream hashes - module for Node.js
ii node-sigmund 1.0.0-1 all Quick and dirty signatures for Objects module for Node.js
ii node-slide 1.1.4-1 all Simple chain and asyncMap flow control module for Node.js
ii node-tar 1.0.3-2 all read and write portable tar archives module for Node.js
ii node-tunnel-agent 0.3.1-1 all HTTP proxy tunneling agent module for Node.js
ii node-underscore 1.7.0~dfsg-1ubuntu1 all JavaScript's functional programming helper library - NodeJS
ii node-which 1.0.5-2 all Cross-platform 'which' module for Node.js
ii nodejs 4.2.6~dfsg-1ubuntu4.1 amd64 evented I/O for V8 javascript
ii nodejs-dev 4.2.6~dfsg-1ubuntu4.1 amd64 evented I/O for V8 javascript (development files)
ii nodejs-legacy 4.2.6~dfsg-1ubuntu4.1 all evented I/O for V8 javascript (legacy symlink)
ii notify-osd 0.9.35+16.04.20160415-0ubuntu1 amd64 daemon that displays passive pop-up notifications
ii notify-osd-icons 0.8+15.10.20151016.2-0ubuntu1 all Notify-OSD icons
ii npm 3.5.2-0ubuntu4 all package manager for Node.js
ii ntfs-3g 1:2015.3.14AR.1-1ubuntu0.1 amd64 read/write NTFS driver for FUSE
ii nux-tools 4.0.8+16.04.20160705-0ubuntu1 amd64 Visual rendering toolkit for real-time applications - tools
ii ocl-icd-libopencl1:amd64 2.2.8-1 amd64 Generic OpenCL ICD Loader
ii ocl-icd-opencl-dev:amd64 2.2.8-1 amd64 OpenCL development files
ii onboard 1.2.0-0ubuntu5 amd64 Simple On-screen Keyboard
ii onboard-data 1.2.0-0ubuntu5 all Language model files for the word suggestion feature of Onboard
ii opencl-headers 2.0~svn32091-2 all OpenCL (Open Computing Language) header files
ii opencv-data 2.4.9.1+dfsg-1.5ubuntu1 all development data for opencv

ii openoffice.org-hyphenation 0.9 all Hyphenation patterns for OpenOffice.org
ii openprinting-ppds 20160212-0ubuntu1 all OpenPrinting printer support - PostScript PPD files
ii openssh-client 1:7.2p2-4ubuntu2.1 amd64 secure shell (SSH) client, for secure access to remote machines
ii openssl 1.0.2g-1ubuntu4.6 amd64 Secure Sockets Layer toolkit - cryptographic utility
ii oracle-java8-installer 8u121-1~webupd8~0 all Oracle Java(TM) Development Kit (JDK) 8
ii oracle-java8-set-default 8u121-1~webupd8~0 all Set Oracle JDK 8 as default Java
ii os-prober 1.70ubuntu3 amd64 utility to detect other OSes on a set of drives
ii overlay-scrollbar 0.2.17.1+16.04.20151117-0ubuntu1.16.04.1 all Scrollbar overlay - configuration
ii overlay-scrollbar-gtk2:amd64 0.2.17.1+16.04.20151117-0ubuntu1.16.04.1 amd64 GTK 2 module for overlay scrollbars
ii oxideqt-codecs-extra:amd64 1.20.4-0ubuntu0.16.04.1 amd64 Web browser engine for Qt (codecs)
ii p11-kit 0.23.2-5~ubuntu16.04.1 amd64 p11-glue utilities
ii p11-kit-modules:amd64 0.23.2-5~ubuntu16.04.1 amd64 p11-glue proxy and trust modules
ii pandoc 1.16.0.2~dfsg-1 amd64 general markup converter
ii pandoc-data 1.16.0.2~dfsg-1 all general markup converter - data files
ii parted 3.2-15 amd64 disk partition manipulator
ii passwd 1:4.2-3.1ubuntu5 amd64 change and administer password and group data
ii patch 2.7.5-1 amd64 Apply a diff file to an original
ii patchutils 0.3.4-1 amd64 Utilities to work with patches
ii pciutils 1:3.3.1-1.1ubuntu1 amd64 Linux PCI Utilities
ii pcmciautils 018-8 amd64 PCMCIA utilities for Linux 2.6
ii perl 5.22.1-9 amd64 Larry Wall's Practical Extraction and Report Language
ii perl-base 5.22.1-9 amd64 minimal Perl system
ii perl-modules-5.22 5.22.1-9 all Core Perl modules
ii pgdg-keyring 2014.1 all keyring for apt.postgresql.org
ii pinentry-gnome3 0.9.7-3 amd64 GNOME 3 PIN or pass-phrase entry dialog for GnuPG
ii pkg-config 0.29.1-0ubuntu1 amd64 manage compile and link flags for libraries
ii plainbox-provider-checkbox 0.25-1 amd64 CheckBox provider for PlainBox

ii plainbox-provider-resource-generic 0.23-1 amd64 CheckBox generic resource jobs provider
ii plainbox-secure-policy 0.25-1 all policykit policy required to use plainbox (secure version)
ii plymouth 0.9.2-3ubuntu13.1 amd64 boot animation, logger and I/O multiplexer
ii plymouth-label 0.9.2-3ubuntu13.1 amd64 boot animation, logger and I/O multiplexer - label control
ii plymouth-theme-ubuntu-logo 0.9.2-3ubuntu13.1 amd64 boot animation, logger and I/O multiplexer - ubuntu theme
ii plymouth-theme-ubuntu-text 0.9.2-3ubuntu13.1 amd64 boot animation, logger and I/O multiplexer - ubuntu text theme
ii pm-utils 1.4.1-16 all utilities and scripts for power management
ii po-debconf 1.0.19 all tool for managing templates file translations with gettext
ii policykit-1 0.105-14.1 amd64 framework for managing administrative policies and privileges
ii policykit-1-gnome 0.105-2ubuntu2 amd64 GNOME authentication agent for PolicyKit-1
ii policykit-desktop-privileges 0.20 all run common desktop actions without password
ii poppler-data 0.4.7-7 all encoding data for the poppler PDF rendering library
ii poppler-utils 0.41.0-0ubuntu1.1 amd64 PDF utilities (based on Poppler)
ii popularity-contest 1.64ubuntu2 all Vote for your favourite packages automatically
ii postgresql 9.6+178.pgdg16.04+1 all object-relational SQL database (supported version)
ii postgresql-9.5 9.5.5-1.pgdg16.04+1 amd64 object-relational SQL database, version 9.5 server
ii postgresql-9.6 9.6.1-2.pgdg16.04+1 amd64 object-relational SQL database, version 9.6 server
ii postgresql-client-9.5 9.5.5-1.pgdg16.04+1 amd64 front-end programs for PostgreSQL 9.5
ii postgresql-client-9.6 9.6.1-2.pgdg16.04+1 amd64 front-end programs for PostgreSQL 9.6
ii postgresql-client-common 178.pgdg16.04+1 all manager for multiple PostgreSQL client versions
ii postgresql-common 178.pgdg16.04+1 all PostgreSQL database-cluster manager
ii postgresql-contrib 9.6+178.pgdg16.04+1 all additional facilities for PostgreSQL (supported version)
ii postgresql-contrib-9.5 9.5.5-1.pgdg16.04+1 amd64 additional facilities for PostgreSQL
ii postgresql-contrib-9.6 9.6.1-2.pgdg16.04+1 amd64 additional

facilities for PostgreSQL
ii powermgmt-base 1.31+nmu1 all Common utils and configs for power management
ii ppp 2.4.7-1+2ubuntu1 amd64 Point-to-Point Protocol (PPP) - daemon
ii pppconfig 2.3.22 all Text menu based utility for configuring ppp
ii pppoeconf 1.21ubuntu1 all configures PPPoE/ADSL connections
ii pptp-linux 1.8.0-1 amd64 Point-to-Point Tunneling Protocol (PPTP) Client
ii preview-latex-style 11.88-1.1ubuntu1 all extraction of elements from LaTeX documents as graphics
ii printer-driver-brlaser 3-5~ubuntu1 amd64 printer driver for (some) Brother laser printers
ii printer-driver-c2esp 27-2 amd64 printer driver for Kodak ESP AiO color inkjet Series
ii printer-driver-foo2zjs 20151024dfsg0-1ubuntu1 amd64 printer driver for ZjStream-based printers
ii printer-driver-foo2zjs-common 20151024dfsg0-1ubuntu1 all printer driver for ZjStream-based printers - common files
ii printer-driver-gutenprint 5.2.11-1 amd64 printer drivers for CUPS
ii printer-driver-hpcups 3.16.3+repack0-1 amd64 HP Linux Printing and Imaging - CUPS Raster driver (hpcups)
ii printer-driver-min12xxw 0.0.9-9 amd64 printer driver for KonicaMinolta PagePro 1[234]xxW
ii printer-driver-pnm2ppa 1.13+nondbs-0ubuntu5 amd64 printer driver for HP-GDI printers
ii printer-driver-postscript-hp 3.16.3+repack0-1 all HP Printers PostScript Descriptions
ii printer-driver-ptouch 1.4-1 amd64 printer driver Brother P-touch label printers
ii printer-driver-pxljr 1.4+repack0-4 amd64 printer driver for HP Color LaserJet 35xx/36xx
ii printer-driver-sag-gdi 0.1-4ubuntu1 all printer driver for Ricoh Aficio SP 1000s/SP 1100s
ii printer-driver-splix 2.0.0+svn315-4fakesync1 amd64 Driver for Samsung and Xerox SPL2 and SPLc laser printers
ii procps 2:3.3.10-4ubuntu2.3 amd64 /proc file system utilities
ii prosper 1.00.4+cvs.2007.05.01-4 all LaTeX class for writing transparencies
ii ps2eps 1.68+binaryfree-1 amd64 convert PostScript to EPS (Encapsulated PostScript) files
ii psmisc 22.21-2.1build1 amd64 utilities that use the proc file system
ii psutils 1.17.dfsg-2 amd64 PostScript document

handling utilities
ii pulse 8.2 all Pulse Secure Client for Linux
ii pulseaudio 1:8.0-0ubuntu3.2 amd64
PulseAudio sound server
ii pulseaudio-module-bluetooth 1:8.0-0ubuntu3.2 amd64 Bluetooth
module for PulseAudio sound server
ii pulseaudio-module-x11 1:8.0-0ubuntu3.2 amd64 X11 module for
PulseAudio sound server
ii pulseaudio-utils 1:8.0-0ubuntu3.2 amd64 Command line tools
for the PulseAudio sound server
ii pyotherside 1.4.0-2 all transitional dummy package
ii python 2.7.11-1 amd64 interactive high-level object-
oriented language (default version)
ii python-alabaster 0.7.7-1 all Configurable
sidebar-enabled Sphinx theme (Python 2)
ii python-all 2.7.11-1 amd64 package depending on all
supported Python runtime versions
ii python-all-dev 2.7.11-1 amd64 package depending on all
supported Python development packages
ii python-appindicator 12.10.1+15.04.20141110-0ubuntu1 amd64 Python
bindings for libappindicator
ii python-apt 1.1.0~beta1build1 amd64 Python interface to
libapt-pkg
ii python-apt-common 1.1.0~beta1build1 all Python interface to
libapt-pkg (locales)
ii python-babel 1.3+dfsg.1-6
all tools for internationalizing Python applications - Python 2.x
ii python-babel-localedata 1.3+dfsg.1-6 all tools for
internationalizing Python applications - locale data files
ii python-cairo 1.8.8-2 amd64 Python bindings for the
Cairo vector graphics library
ii python-chardet 2.3.0-2 all universal character encoding
detector for Python2
ii python-compizconfig:amd64 1:0.9.12.2+16.04.20160823-0ubuntu1 amd64
Compizconfig bindings for Python
ii python-dev 2.7.11-1 amd64 header files and a static
library for Python (default)
ii python-docutils
0.12+dfsg-1 all text processing system for reStructuredText (implemented
in Python 2)
ii python-gi 3.20.0-0ubuntu1 amd64 Python 2.x bindings for
gobject-introspection libraries
ii python-gobject 3.20.0-0ubuntu1 all Python 2.x bindings for
GObject - transitional package
ii python-gobject-2 2.28.6-12ubuntu1 amd64 deprecated static
Python bindings for the GObject library
ii python-gtk2 2.24.0-4ubuntu1 amd64 Python bindings for the
GTK+ widget set

ii python-jinja2 2.8-1 all small but fast and easy to use stand-alone template engine
ii python-lldb-3.8 1:3.8-2ubuntu4 amd64 Next generation, high-performance debugger, python lib
ii python-lockfile 1:0.12.2-1 all file locking library for Python — Python 2 library
ii python-markupsafe 0.23-2build2 amd64 HTML/XHTML/XML string library for Python
ii python-minimal 2.7.11-1 amd64 minimal subset of the Python language (default version)
ii python-numpy 1:1.11.0-1ubuntu1 amd64 Numerical Python adds a fast array facility to the Python language
ii python-pil:amd64 3.1.2-0ubuntu1 amd64 Python Imaging Library (Pillow fork)
ii python-pil.imagetk:amd64 3.1.2-0ubuntu1 amd64 Python Imaging Library - ImageTk Module (Pillow fork)
ii python-pip 8.1.1-2ubuntu0.4 all alternative Python package installer
ii python-pip-whl 8.1.1-2ubuntu0.4 all alternative Python package installer
ii python-pkg-resources 20.7.0-1 all Package Discovery and Resource Access using pkg_resources
ii python-ply 3.7-1 all Lex and Yacc implementation for Python2
ii python-pygments 2.1+dfsg-1 all syntax highlighting package written in Python
ii python-roman 2.0.0-2 all module for generating/analyzing Roman numerals for Python 2
ii python-setuptools 20.7.0-1 all Python Distutils Enhancements
ii python-six 1.10.0-3 all Python 2 and 3 compatibility library (Python 2 interface)
ii python-sphinx 1.3.6-2ubuntu1 all documentation generator for Python projects (implemented in Python 2)
ii python-sphinx-rtd-theme 0.1.9-1 all sphinx theme from readthedocs.org (Python 2)
ii python-talloc 2.1.5-2 amd64 hierarchical pool based memory allocator - Python bindings
ii python-tk 2.7.11-2 amd64 Tkinter - Writing Tk applications with Python
ii python-tz 2014.10~dfsg1-0ubuntu2 all Python version of the Olson timezone database
ii python-wheel 0.29.0-1 all built-package format for Python
ii python2.7 2.7.12-1ubuntu0~16.04.1 amd64 Interactive high-level object-oriented language (version 2.7)
ii python2.7-dev 2.7.12-1ubuntu0~16.04.1 amd64 Header files and a

static library for Python (v2.7)
ii
python2.7-minimal 2.7.12-1ubuntu0~16.04.1 amd64 Minimal subset
of the Python language (version 2.7)
ii python3 3.5.1-3 amd64 interactive high-level object-
oriented language (default python3 version)
ii python3-apport 2.20.1-0ubuntu2.5 all Python 3 library for
Apport crash report handling
ii python3-apt 1.1.0~beta1build1 amd64 Python 3 interface to
libapt-pkg
ii python3-aptdaemon 1.1.1+bzr982-0ubuntu14 all Python 3 module
for the server and client of aptdaemon
ii python3-aptdaemon.gtk3widgets 1.1.1+bzr982-0ubuntu14 all
Python 3 GTK+ 3 widgets to run an aptdaemon client
ii python3-aptdaemon.pkcompat 1.1.1+bzr982-0ubuntu14 all PackageKit
compatibilty for AptDaemon
ii python3-blinker 1.3.dfsg2-1build1 all fast, simple object-to-
object and broadcast signaling library
ii python3-brlapi 5.3.1-2ubuntu2.1 amd64 Braille display access
via BRLTTY - Python3 bindings
ii python3-bs4 4.4.1-1 all error-tolerant HTML parser
for Python 3
ii python3-cairo 1.10.0+dfsg-5build1 amd64 Python 3 bindings for
the Cairo vector graphics library
ii python3-cffi-backend 1.5.2-1ubuntu1
amd64 Foreign Function Interface for Python 3 calling C code - runtime
ii python3-chardet 2.3.0-2 all universal character encoding
detector for Python3
ii python3-checkbox-support 0.22-1 all collection of Python
modules used by PlainBox providers
ii python3-commandnotfound 0.3ubuntu16.04.2 all Python 3 bindings
for command-not-found.
ii python3-cryptography 1.2.3-1ubuntu0.1 amd64 Python library
exposing cryptographic recipes and primitives (Python 3)
ii python3-cups 1.9.73-0ubuntu2 amd64 Python3 bindings for
CUPS
ii python3-cupshelpers
1.5.7+20160212-0ubuntu2 all Python modules for printer configuration with
CUPS
ii python3-dbus 1.2.0-3 amd64 simple interprocess
messaging system (Python 3 interface)
ii python3-debian 0.1.27ubuntu2 all Python 3 modules to
work with Debian-related data formats
ii python3-defer 1.0.6-2build1 all Small framework for
asynchronous programming (Python 3)
ii python3-distupgrade 1:16.04.20 all manage release upgrades
ii python3-feedparser 5.1.3-3build1 all Universal Feed Parser for
Python 3

ii python3-gdbm:amd64
3.5.1-1 amd64 GNU dbm database support for Python 3.x
ii python3-gi 3.20.0-0ubuntu1 amd64 Python 3 bindings for
gobject-introspection libraries
ii python3-gi-cairo 3.20.0-0ubuntu1 amd64 Python 3 Cairo
bindings for the GObject library
ii python3-guacamole 0.9.2-1 all framework for creating
command line applications (Python 3)
ii python3-html5lib 0.999-4 all HTML parser/tokenizer
based on the WHATWG HTML5 specification (Python 3)
ii python3-httplib2 0.9.1+dfsg-1 all comprehensive
HTTP client library written for Python3
ii python3-idna 2.0-3 all Python IDNA2008 (RFC
5891) handling (Python 3)
ii python3-jinja2 2.8-1 all small but fast and easy to use
stand-alone template engine
ii python3-jwt 1.3.0-1 all Python 3 implementation of
JSON Web Token
ii python3-louis 2.6.4-2 all Python bindings for liblouis
ii python3-lxml 3.5.0-1build1 amd64 pythonic binding for the
libxml2 and libxslt libraries
ii python3-mako 1.0.3+ds1-1ubuntu1
all fast and lightweight templating for the Python 3 platform
ii python3-markupsafe 0.23-2build2 amd64
HTML/XHTML/XML string library for Python 3
ii python3-minimal 3.5.1-3 amd64 minimal subset of the
Python language (default python3 version)
ii python3-oauthlib 1.0.3-1 all generic, spec-compliant
implementation of OAuth for Python3
ii python3-padme 1.1.1-2 all mostly transparent proxy
class for Python 3
ii python3-pexpect 4.0.1-1 all Python 3 module for
automating interactive applications
ii python3-pil:amd64
3.1.2-0ubuntu1 amd64 Python Imaging Library (Python3)
ii python3-pkg-resources 20.7.0-1 all Package Discovery and
Resource Access using pkg_resources
ii python3-plainbox 0.25-1 all toolkit for software and
hardware testing (python3 module)
ii python3-problem-report 2.20.1-0ubuntu2.5 all Python 3 library to
handle problem reports
ii python3-ptyprocess 0.5-1 all Run a subprocess in a
pseudo terminal from Python 3
ii python3-pyasn1 0.1.9-1 all ASN.1 library for Python
(Python 3 module)
ii python3-pyatspi
2.18.0+dfsg-3 all Assistive Technology Service Provider
Interface - Python3 bindings

ii python3-pycurl 7.43.0-1ubuntu1 amd64 Python bindings to libcurl (Python 3)
ii python3-pyparsing 2.0.3+dfsg1-1ubuntu0.1 all Python parsing module, Python3 package
ii python3-renderpm:amd64 3.3.0-1 amd64 python low level render interface
ii python3-reportlab 3.3.0-1 all ReportLab library to create PDF documents using Python3
ii python3-reportlab-accel:amd64 3.3.0-1 amd64 C coded extension accelerator for the ReportLab Toolkit
ii python3-requests 2.9.1-3 all elegant and simple HTTP library for Python3, built for human beings
ii python3-six 1.10.0-3 all Python 2 and 3 compatibility library (Python 3 interface)
ii python3-software-properties 0.96.20.5 all manage the repositories that you install software from
ii python3-speechd 0.8.3-1ubuntu3 all Python interface to Speech Dispatcher
ii python3-systemd 231-2build1 amd64 Python 3 bindings for systemd
ii python3-uno 1:5.1.4-0ubuntu1 amd64 Python-UNO bridge
ii python3-update-manager 1:16.04.5 all python 3.x module for update-manager
ii python3-urllib3 1.13.1-2ubuntu0.16.04.1 all HTTP library with thread-safe connection pooling for Python3
ii python3-xdg 0.25-4 all Python 3 library to access freedesktop.org standards
ii python3-xkit 0.5.0ubuntu2 all library for the manipulation of xorg.conf files (Python 3)
ii python3-xlsxwriter 0.7.3-1 all Python 3 module for creating Excel XLSX files
ii python3.5 3.5.2-2ubuntu0~16.04.1 amd64 Interactive high-level object-oriented language (version 3.5)
ii python3.5-minimal 3.5.2-2ubuntu0~16.04.1 amd64 Minimal subset of the Python language (version 3.5)
ii qdbus 4:4.8.7+dfsg-5ubuntu2 amd64 Qt 4 D-Bus tool
ii qml-module-io-thp-pyotherside:amd64 1.4.0-2 amd64 asynchronous Python 3 Bindings for Qt 5 (QML plugin)
ii qml-module-qt-labs-folderlistmodel:amd64 5.5.1-2ubuntu6 amd64 Qt 5 folderlistmodel QML module
ii qml-module-qt-labs-settings:amd64 5.5.1-2ubuntu6 amd64 Qt 5 settings QML module
ii qml-module-qtfeedback:amd64 5.0~git20130529-0ubuntu13 amd64 Qt 5 Feedback QML module
ii qml-module-qtgraphicaleffects:amd64 5.5.1-1ubuntu1 amd64 Qt 5

Graphical Effects module
ii qml-module-qtquick-layouts:amd64 5.5.1-1ubuntu1 amd64 Qt 5 Quick Layouts QML module
ii qml-module-qtquick-window2:amd64 5.5.1-2ubuntu6 amd64 Qt 5 window 2 QML module
ii qml-module-qtquick2:amd64 5.5.1-2ubuntu6 amd64 Qt 5 Qt Quick 2 QML module
ii qml-module-qttest:amd64 5.5.1-2ubuntu6 amd64 Qt 5 test QML module
ii qml-module-ubuntu-components:amd64 1.3.1918+16.04.20160404-0ubuntu1 amd64 Qt Components for Ubuntu - Components QML plugin
ii qml-module-ubuntu-layouts:amd64 1.3.1918+16.04.20160404-0ubuntu1 amd64 Qt Components for Ubuntu - Layouts QML plugin
ii qml-module-ubuntu-onlineaccounts:amd64 0.6+16.04.20151106-0ubuntu1 amd64 Expose the Online Accounts API to QML applications
ii qml-module-ubuntu-performancemetrics:amd64 1.3.1918+16.04.20160404-0ubuntu1 amd64 Qt Components for Ubuntu - PerformanceMetrics QML plugin
ii qml-module-ubuntu-test:amd64 1.3.1918+16.04.20160404-0ubuntu1 amd64 Qt Components for Ubuntu - Test QML plugin
ii qml-module-ubuntu-web:amd64 0.23+16.04.20161028-0ubuntu2 amd64 Ubuntu web QML module
ii qmlscene 5.5.1-2ubuntu6 amd64 Qt 5 QML scene viewer
ii qpdf 6.0.0-2 amd64 tools for transforming and inspecting PDF files
ii qt-at-spi:amd64 0.4.0-3 amd64 at-spi accessibility plugin for Qt
ii qt-at-spi:i386 0.4.0-3 i386 at-spi accessibility plugin for Qt
ii qtchooser 52-gae5eeef-2build1~gcc5.2 amd64 Wrapper to select between Qt development binary versions
ii qtcore4-l10n 4:4.8.7+dfsg-5ubuntu2 all Qt 4 core module translations
ii qtdeclarative5-accounts-plugin:amd64 0.6+16.04.20151106-0ubuntu1 amd64 transitional dummy package for Online Accounts QML clients
ii qtdeclarative5-dev-tools 5.5.1-2ubuntu6 amd64 Qt 5 declarative development programs
ii qtdeclarative5-qtquick2-plugin:amd64 5.5.1-2ubuntu6 amd64 transitional dummy package Qt 5 Qt Quick 2 QML module
ii qtdeclarative5-test-plugin:amd64 5.5.1-2ubuntu6 amd64 transitional dummy package for Qt 5 test QML module
ii qtdeclarative5-ubuntu-ui-toolkit-plugin 1.3.1918+16.04.20160404-0ubuntu1 amd64 Transitional dummy package for Ubuntu UI Toolkit QML plugin
ii qtdeclarative5-unity-action-plugin:amd64 1.1.0+14.04.20140304-0ubuntu2~gcc5.1 amd64 Unity Action QML Components
ii qttranslations5-l10n 5.5.1-2build1 all translations for Qt 5
ii rake 10.5.0-2 all ruby make-like utility
ii readline-common 6.3-8ubuntu2 all GNU readline and

history libraries, common files
ii remmina 1.1.2-3ubuntu1 amd64 remote desktop client for GNOME desktop environment
ii remmina-common 1.1.2-3ubuntu1 all common files for remmina remote desktop client
ii remmina-plugin-rdp 1.1.2-3ubuntu1 amd64 RDP plugin for remmina remote desktop client
ii remmina-plugin-vnc 1.1.2-3ubuntu1 amd64 VNC plugin for remmina remote desktop client
ii rename 0.20-4 all Perl extension for renaming multiple files
ii resolvconf 1.78ubuntu2 all name server information handler
ii rfkill 0.5-1ubuntu3 amd64 tool for enabling and disabling wireless devices
ii rhythmbox 3.3-1ubuntu7 amd64 music player and organizer for GNOME
ii rhythmbox-data 3.3-1ubuntu7 all data files for rhythmbox
ii rhythmbox-plugin-zeitgeist 3.3-1ubuntu7 all zeitgeist plugin for rhythmbox music player
ii rhythmbox-plugins 3.3-1ubuntu7 amd64 plugins for rhythmbox music player
ii rsync 3.1.1-3ubuntu1 amd64 fast, versatile, remote (and local) file-copying tool
ii rsyslog 8.16.0-1ubuntu3 amd64 reliable system and kernel logging daemon
ii rtkit 0.11-4 amd64 Realtime Policy and Watchdog Daemon
ii ruby 1:2.3.0+1 all Interpreter of object-oriented scripting language Ruby (default version)
ii ruby-did-you-mean 1.0.0-2 all smart error messages for Ruby > 2.3
ii ruby-minitest 5.8.4-2 all Ruby test tools supporting TDD, BDD, mocking, and benchmarking
ii ruby-net-telnet 0.1.1-2 all telnet client library
ii ruby-power-assert 0.2.7-1 all library showing values of variables and method calls in an expression
ii ruby-test-unit 3.1.7-2 all unit testing framework for Ruby
ii ruby2.3 2.3.1-2~16.04 amd64 Interpreter of object-oriented scripting language Ruby
ii rubygems-integration 1.10 all integration of Debian Ruby packages with Rubygems
ii s-nail 14.8.6-1 amd64 feature-rich BSD mail(1)
ii samba-libs:amd64 2:4.3.11+dfsg-0ubuntu0.16.04.3 amd64 Samba core libraries
ii sane-utils 1.0.26-git20160712-xenial0 amd64 API library for

scanners -- utilities
ii sbsigntool 0.6-0ubuntu10.1 amd64 utility for signing and verifying files for UEFI Secure Boot
ii seahorse 3.18.0-2ubuntu1 amd64 GNOME front end for GnuPG
ii secureboot-db 1.1 amd64 Secure Boot updates for DB and DBX
ii sed 4.2.2-7 amd64 The GNU sed stream editor
ii sensible-utils 0.0.9 all Utilities for sensible alternative selection
ii session-migration 0.2.3 amd64 Tool to migrate in user session settings
ii session-shortcuts 1.2 all Allows you to shutdown, logout, and reboot from dash
ii sessioninstaller 0.20+bzr150-0ubuntu4.1 all APT based installer using PackageKit's session DBus API
ii sgml-base 1.26+nmu4ubuntu1 all SGML infrastructure and SGML catalog file support
ii shared-mime-info 1.5-2ubuntu0.1 amd64 FreeDesktop.org shared MIME database and spec
ii shim 0.8-0ubuntu2 amd64 boot loader to chain-load signed boot loaders under Secure Boot
ii shim-signed 1.19~16.04.1+0.8-0ubuntu2 amd64 Secure Boot chain-loading bootloader (Microsoft-signed binary)
ii shotwell 0.22.0+git20160108.r1.f2fb1f7-0ubuntu1 amd64 digital photo organizer
ii shotwell-common 0.22.0+git20160108.r1.f2fb1f7-0ubuntu1 all digital photo organizer - common files
ii signon-keyring-extension 0.6+14.10.20140513-0ubuntu2 amd64 GNOME keyring extension for signond
ii signon-plugin-oauth2 0.23+16.04.20151209-0ubuntu1 amd64 Single Signon oauth2 plugin
ii signon-plugin-password 8.58+16.04.20151106-0ubuntu1 amd64 Plain Password plugin for Single Sign On
ii signon-ui 0.17+16.04.20151125-0ubuntu1 all Dummy transitional package for signon-ui
ii signon-ui-service 0.17+16.04.20151125-0ubuntu1 all D-Bus service file for signon-ui
ii signon-ui-x11 0.17+16.04.20151125-0ubuntu1 amd64 Single Sign-on UI
ii signond 8.58+16.04.20151106-0ubuntu1 amd64 Single Sign On framework
ii simple-scan 3.20.0-0ubuntu1 amd64 Simple Scanning Utility
ii skype:i386 4.3.0.37-1 i386 Wherever you are, wherever they are
ii slack-desktop 2.4.2 amd64 Slack Desktop

ii smartmontools 6.4+svn4214-1 amd64 control and monitor storage systems using S.M.A.R.T.
ii snap-confine 2.20.1ubuntu1 amd64 Support executable to apply confinement for snappy apps
ii snapd 2.20.1ubuntu1 amd64 Tool to interact with Ubuntu Core Snappy.
ii snapd-login-service 1.2-0ubuntu1.1~xenial amd64 Daemon to allow non-root access to snapd
ii sni-qt:amd64 0.2.7+15.10.20150729-0ubuntu1 amd64 indicator support for Qt
ii sni-qt:i386 0.2.7+15.10.20150729-0ubuntu1 i386 indicator support for Qt
ii software-properties-common 0.96.20.5 all manage the repositories that you install software from (common)
ii software-properties-gtk 0.96.20.5 all manage the repositories that you install software from (gtk)
ii sound-theme-freedesktop 0.8-1 all freedesktop.org sound theme
ii speech-dispatcher 0.8.3-1ubuntu3 amd64 Common interface to speech synthesizers
ii speech-dispatcher-audio-plugins:amd64 0.8.3-1ubuntu3 amd64 Speech Dispatcher: Audio output plugins
ii sphinx-common 1.3.6-2ubuntu1 all documentation generator for Python projects - common data
ii sphinx-doc 1.3.6-2ubuntu1 all documentation generator for Python projects - documentation
ii sphinx-rtd-theme-common 0.1.9-1 all sphinx theme from readthedocs.org (common files)
ii squashfs-tools 1:4.3-3ubuntu2 amd64 Tool to create and append to squashfs filesystems
ii ssl-cert 1.0.37 all simple debconf wrapper for OpenSSL
ii steam-launcher 1.0.0.54 all Launcher for the Steam software distribution service
ii strace 4.11-1ubuntu3 amd64 System call tracer
ii sudo 1.8.16-0ubuntu1.2 amd64 Provide limited super user privileges to specific users
ii suru-icon-theme 14.04+16.04.20161024-0ubuntu1 all Ubuntu Suru Icon theme
ii swig 3.0.8-0ubuntu3 amd64 Generate scripting interfaces to C/C++ code
ii swig3.0 3.0.8-0ubuntu3 amd64 Generate scripting interfaces to C/C++ code
ii syslinux 3:6.03+dfsg-11ubuntu1 amd64 collection of bootloaders (DOS FAT and NTFS bootloader)
ii syslinux-common 3:6.03+dfsg-11ubuntu1 all collection of bootloaders (common)
ii syslinux-legacy 2:3.63+dfsg-2ubuntu8 amd64 Bootloader for

Linux/i386 using MS-DOS floppies
ii sysstat 11.2.0-1ubuntu0.1 amd64 system performance tools for Linux
ii system-config-printer-common 1.5.7+20160212-0ubuntu2 all Printer configuration GUI
ii system-config-printer-gnome 1.5.7+20160212-0ubuntu2 all Printer configuration GUI
ii system-config-printer-udev 1.5.7+20160212-0ubuntu2 amd64 Printer auto-configuration facility based on udev
ii systemd 229-4ubuntu16 amd64 system and service manager
ii systemd-sysv 229-4ubuntu16 amd64 system and service manager - SysV links
ii sysv-rc 2.88dsf-59.3ubuntu2 all System-V-like runlevel change mechanism
ii sysvinit-utils 2.88dsf-59.3ubuntu2 amd64 System-V-like utilities
ii t1utils 1.39-2 amd64 Collection of simple Type 1 font manipulation programs
ii tar 1.28-2.1ubuntu0.1 amd64 GNU version of the tar archiving utility
ii tcl 8.6.0+9 amd64 Tool Command Language (default version) - shell
ii tcl8.6 8.6.5+dfsg-2 amd64 Tcl (the Tool Command Language) v8.6 - shell
ii tcpd 7.6.q-25 amd64 Wietse Venema's TCP wrapper utilities
ii tcpdump 4.7.4-1ubuntu1 amd64 command-line network traffic analyzer
ii teamviewer:i386 11.0.57095 i386 TeamViewer (Remote Control Application)
ii telnet 0.17-40 amd64 basic telnet client
ii tex-common 6.04 all common infrastructure for building and installing TeX
ii tex-gyre 20150923-1 all scalable PostScript and OpenType fonts based on URW Fonts
ii texlive 2015.20160320-1 all TeX Live: A decent selection of the TeX Live packages
ii texlive-base 2015.20160320-1 all TeX Live: Essential programs and files
ii texlive-binaries 2015.20160222.37495-1 amd64 Binaries for TeX Live
ii texlive-extra-utils 2015.20160320-1 all TeX Live: TeX auxiliary programs
ii texlive-font-utils 2015.20160320-1 all TeX Live: Graphics and font utilities
ii texlive-fonts-recommended 2015.20160320-1 all TeX Live: Recommended fonts

ii texlive-fonts-recommended-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-fonts-recommended
ii texlive-generic-recommended 2015.20160320-1 all TeX Live: Generic recommended packages
ii texlive-lang-english 2015.20160223-1 all TeX Live: US and UK English
ii texlive-lang-italian 2015.20160223-1 all TeX Live: Italian
ii texlive-latex-base 2015.20160320-1 all TeX Live: LaTeX fundamental packages
ii texlive-latex-base-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-latex-base
ii texlive-latex-extra 2015.20160320-1 all TeX Live: LaTeX additional packages
ii texlive-latex-extra-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-latex-extra
ii texlive-latex-recommended 2015.20160320-1 all TeX Live: LaTeX recommended packages
ii texlive-latex-recommended-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-latex-recommended
ii texlive-pictures 2015.20160320-1 all TeX Live: Graphics, pictures, diagrams
ii texlive-pictures-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-pictures
ii texlive-pstricks 2015.20160320-1 all TeX Live: PSTricks
ii texlive-pstricks-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-pstricks
ii texlive-science 2015.20160320-1 all TeX Live: Natural and computer sciences
ii texlive-science-doc 2015.20160320-1 all TeX Live: Documentation files for texlive-science
ii texmaker 4.4.1-1.1 amd64 cross-platform LaTeX editor
ii texmaker-data 4.4.1-1.1 all Texmaker LaTeX editor -- arch-independent files
ii thermald 1.5-2ubuntu2 amd64 Thermal monitoring and controlling daemon
ii thunderbird 1:45.7.0+build1-0ubuntu0.16.04.1 amd64 Email, RSS and newsgroup client with integrated spam filter
ii thunderbird-gnome-support 1:45.7.0+build1-0ubuntu0.16.04.1 amd64 Email, RSS and newsgroup client - GNOME support
ii thunderbird-locale-en 1:45.7.0+build1-0ubuntu0.16.04.1 amd64 English language pack for Thunderbird
ii thunderbird-locale-en-gb 1:45.7.0+build1-0ubuntu0.16.04.1 all Transitional English language pack for Thunderbird
ii thunderbird-locale-en-us 1:45.7.0+build1-0ubuntu0.16.04.1 all Transitional English language pack for Thunderbird
ii thunderbird-locale-it 1:45.7.0+build1-0ubuntu0.16.04.1 amd64 Italian language pack for Thunderbird

ii time 1.7-25.1 amd64 GNU time program for measuring CPU resource usage
ii tipa 2:1.3-20 all system for processing phonetic symbols in LaTeX
ii tk 8.6.0+9 amd64 Toolkit for Tcl and X11 (default version) - windowing shell
ii tk8.6 8.6.5-1 amd64 Tk toolkit for Tcl and X11 v8.6 - windowing shell
ii tk8.6-blt2.5 2.5.3+dfsg-3 amd64 graphics extension library for Tcl/Tk - library
ii tlp 0.8-1 all Save battery power on laptops
ii tlp-rdw 0.8-1 all Radio device wizard
ii toshset 1.76-4 amd64 Access much of the Toshiba laptop hardware interface
ii totem 3.18.1-1ubuntu4 amd64 Simple media player for the GNOME desktop based on GStreamer
ii totem-common 3.18.1-1ubuntu4 all Data files for the Totem media player
ii totem-plugins 3.18.1-1ubuntu4 amd64 Plugins for the Totem media player
ii traceroute 1:2.0.21-1 amd64 Traces the route taken by packets over an IPv4/IPv6 network
ii transmission-common 2.84-3ubuntu3 all lightweight BitTorrent client (common files)
ii transmission-gtk 2.84-3ubuntu3 amd64 lightweight BitTorrent client (GTK+ interface)
ii tree 1.7.0-3 amd64 displays an indented directory tree, in color
ii ttf-ancient-fonts-symbola 2.59-1 all symbolic font providing emoji characters from Unicode 7.0 (transitional package)
ii ttf-bitstream-vera 1.10-8 all The Bitstream Vera family of free TrueType fonts
ii ttf-ubuntu-font-family 1:0.83-0ubuntu2 all Ubuntu Font Family, sans-serif typeface hinted for clarity
ii tzdata 2016j-0ubuntu0.16.04 all time zone and daylight-saving time data
ii ubuntu-artwork 1:14.04+16.04.20161024-0ubuntu1 all Ubuntu themes and artwork
ii ubuntu-core-launcher 2.20.1ubuntu1 amd64 Launcher for ubuntu-core
(snappy) apps
ii ubuntu-desktop 1.361 amd64 The Ubuntu desktop system
ii ubuntu-docs 16.04.4 all Ubuntu Desktop Guide
ii ubuntu-drivers-common 1:0.4.17.2 amd64 Detect and install additional Ubuntu driver packages

ii ubuntu-keyring 2012.05.19 all GnuPG keys of the Ubuntu archive
ii ubuntu-minimal 1.361 amd64 Minimal core of Ubuntu
ii ubuntu-mobile-icons 14.04+16.04.20161024-0ubuntu1 all Ubuntu Mobile Icon theme
ii ubuntu-mono 14.04+16.04.20161024-0ubuntu1 all Ubuntu Mono Icon theme
ii ubuntu-release-upgrader-core 1:16.04.20 all manage release upgrades
ii ubuntu-release-upgrader-gtk 1:16.04.20 all manage release upgrades
ii ubuntu-restricted-addons 23 amd64 Commonly used restricted packages for Ubuntu
ii ubuntu-session 3.18.1.2-1ubuntu1.16.04.2 all Ubuntu session
ii ubuntu-settings 15.10.8 all default settings for the Ubuntu desktop
ii ubuntu-software 3.20.1+git20161013.0.d77d6cf-0ubuntu2~xenial1 amd64 Utility for browsing, installing,
and removing software
ii ubuntu-sounds 0.13 all Ubuntu's GNOME audio theme
ii ubuntu-standard 1.361 amd64 The Ubuntu standard system
ii ubuntu-system-service 0.3 all Dbus service to set various system-wide configurations
ii ubuntu-touch-sounds 15.08 all sounds for the Ubuntu Touch image
ii ubuntu-ui-toolkit-theme 1.3.1918+16.04.20160404-0ubuntu1 amd64 Qt Components for Ubuntu - Ubuntu Theme
ii ubuntu-wallpapers 16.04.1-0ubuntu1 all Ubuntu Wallpapers
ii ubuntu-wallpapers-xenial 16.04.1-0ubuntu1 all Ubuntu 16.04 Wallpapers
ii ucf 3.0036 all Update Configuration File(s): preserve user changes to config files
ii udev 229-4ubuntu16 amd64 /dev/ and hotplug management daemon
ii udisks2 2.1.7-1ubuntu1 amd64 D-Bus service to access and manipulate storage devices
ii ufw 0.35-0ubuntu2 all program for managing a Netfilter firewall
ii unattended-upgrades 0.90ubuntu0.3 all automatic installation of security upgrades
ii unity 7.4.0+16.04.20160906-0ubuntu1 amd64 Interface designed for efficiency of space and interaction.
ii unity-accessibility-profiles 0.1.10-0ubuntu3 all Accessibility Profile Manager - Unity profile data
ii unity-asset-pool 0.8.24+15.04.20141217-0ubuntu2 all Unity Assets

Pool
ii unity-control-center 15.04.0+16.04.20160705-0ubuntu1 amd64 utilities to configure the GNOME desktop
ii unity-control-center-faces 15.04.0+16.04.20160705-0ubuntu1 all utilities to configure the GNOME desktop - faces images
ii unity-control-center-signon 0.1.8+16.04.20160201-0ubuntu1 amd64 Unity Control Center extension for single signon
ii unity-greeter 16.04.2-0ubuntu1 amd64 Unity Greeter
ii unity-gtk-module-common 0.0.0+15.04.20150118-0ubuntu2 all Common files for GtkMenuShell D-Bus exporter
ii unity-gtk2-module:amd64 0.0.0+15.04.20150118-0ubuntu2 amd64 GtkMenuShell D-Bus exporter
ii unity-gtk3-module:amd64 0.0.0+15.04.20150118-0ubuntu2 amd64 GtkMenuShell D-Bus exporter
ii unity-lens-applications 7.1.0+16.04.20160701-0ubuntu1 amd64 Application lens for unity
ii unity-lens-files 7.1.0+16.04.20151217-0ubuntu1 amd64 File lens for unity
ii unity-lens-music 6.9.1+16.04-0ubuntu1 amd64 Music lens for unity
ii unity-lens-photos 1.0+14.04.20140318-0ubuntu1 all Photos lens for Unity
ii unity-lens-video 0.3.15+16.04.20160212.1-0ubuntu1 amd64 Unity Video lens
ii unity-schemas 7.4.0+16.04.20160906-0ubuntu1 all Interface designed for efficiency of space and interaction.
ii unity-scope-calculator 0.1+14.04.20140328-0ubuntu1 all Calculator scope for Unity
ii unity-scope-chromiumbookmarks 0.1+13.10.20130723-0ubuntu1 all Chromium bookmarks scope for Unity
ii unity-scope-colourlovers 0.1+13.10.20130723-0ubuntu1 all COLOURlovers scope for Unity
ii unity-scope-devhelp 0.1+14.04.20140328-0ubuntu1 all devhelp scope for Unity
ii unity-scope-firefoxbookmarks 0.1+13.10.20130809.1-0ubuntu1 all Firefox bookmarks scope for Unity
ii unity-scope-gdrive 0.9+16.04.20151125-0ubuntu1 all Google Drive scope for Unity
ii unity-scope-home 6.8.2+16.04.20160212.1-0ubuntu1 amd64 Home scope that aggregates results from multiple scopes
ii unity-scope-manpages 3.0+14.04.20140324-0ubuntu1 all Manual pages scope for Unity
ii unity-scope-openclipart 0.1+13.10.20130723-0ubuntu1 all OpenClipArt scope for Unity
ii unity-scope-texdoc 0.1+14.04.20140328-0ubuntu1 all Texdoc scope for Unity
ii unity-scope-tomboy 0.1+13.10.20130723-0ubuntu1 all Tomboy scope

for Unity
ii unity-scope-video-remote 0.3.15+16.04.20160212.1-0ubuntu1 amd64 Remote videos engine
ii unity-scope-virtualbox 0.1+13.10.20130723-0ubuntu1 all VirtualBox scope for Unity
ii unity-scope-yelp 0.1+13.10.20130723-0ubuntu1 all Help scope for Unity
ii unity-scope-zotero 0.1+13.10.20130723-0ubuntu1 all Zotero scope for Unity
ii unity-scopes-master-default 6.8.2+16.04.20160212.1-0ubuntu1 all Home scope that aggregates results from multiple scopes
ii unity-scopes-runner 7.1.4+16.04.20160701-0ubuntu1 all desktop runner for misceallenous scopes
ii unity-services 7.4.0+16.04.20160906-0ubuntu1 amd64 Services for the Unity interface
ii unity-settings-daemon 15.04.1+16.04.20160701-0ubuntu1 amd64 daemon handling the Unity session settings
ii unity-webapps-common 2.4.17+15.10.20150616-0ubuntu2 all Unity WebApp integration scripts
ii unity-webapps-qml 0.1+16.04.20160114-0ubuntu1 amd64 Unity Webapps QML component
ii unity-webapps-service 2.5.0~+16.04.20160201-0ubuntu1 amd64 Service for Web Apps integration with the Unity desktop
ii uno-libs3 5.1.4-0ubuntu1 amd64 LibreOffice UNO runtime environment -- public shared libraries
ii unzip 6.0-20ubuntu1 amd64 De-archiver for .zip files
ii update-inetd 4.43 all inetd configuration file updater
ii update-manager 1:16.04.5 all GNOME application that manages apt updates
ii update-manager-core 1:16.04.5 all manage release upgrades
ii update-notifier 3.168.3 amd64 Daemon which notifies about package updates
ii update-notifier-common 3.168.3 all Files shared between update-notifier and other packages
ii upower 0.99.4-2ubuntu0.3 amd64 abstraction for power management
ii upstart 1.13.2-0ubuntu21.1 amd64 event-based init daemon - essential binaries
ii ure 5.1.4-0ubuntu1 amd64 LibreOffice UNO runtime environment
ii ureadahead 0.100.0-19 amd64 Read required files in advance
ii usb-creator-common 0.3.2 amd64 create a startup disk using a CD or disc image (common files)
ii usb-creator-gtk 0.3.2 amd64 create a startup disk using a CD or disc image (for GNOME)
ii usb-modeswitch 2.2.5+repack0-1ubuntu1 amd64 mode switching tool for controlling "flip flop" USB devices

ii usb-modeswitch-data 20151101-1 all mode switching data for usb-modeswitch
ii usbmuxd 1.1.0-2 amd64 USB multiplexor daemon for iPhone and iPod Touch devices
ii usbutils 1:007-4 amd64 Linux USB utilities
ii util-linux 2.27.1-6ubuntu3.2 amd64 miscellaneous system utilities
ii uuid-runtime 2.27.1-6ubuntu3.2 amd64 runtime components for the Universally Unique ID library
ii va-driver-all:amd64 1.7.0-1 amd64 Video Acceleration (VA) API -- driver metapackage
ii vbetool 1.1-3 amd64 run real-mode video BIOS code to alter hardware state
ii vdpau-driver-all:amd64 1.1.1-3ubuntu1 amd64 Video Decode and Presentation API for Unix (driver metapackage)
ii vdpau-va-driver:amd64 0.7.4-5 amd64 VDPAU-based backend for VA API
ii vim 2:7.4.1689-3ubuntu1.2 amd64 Vi IMproved - enhanced vi editor
ii vim-common 2:7.4.1689-3ubuntu1.2 amd64 Vi IMproved - Common files
ii vim-runtime 2:7.4.1689-3ubuntu1.2 all Vi IMproved - Runtime files
ii vim-tiny 2:7.4.1689-3ubuntu1.2 amd64 Vi IMproved - enhanced vi editor - compact version
ii vino 3.8.1-0ubuntu9.1 amd64 VNC server for GNOME
ii virtualbox-5.1 5.1.14-112924~Ubuntu~xenial amd64 Oracle VM VirtualBox
ii wamerican 7.1-1 all American English dictionary words for /usr/share/dict
ii wbritish 7.1-1 all British English dictionary words for /usr/share/dict
ii webapp-container 0.23+16.04.20161028-0ubuntu2 amd64 Ubuntu web applications container
ii webbrowser-app 0.23+16.04.20161028-0ubuntu2 amd64 Ubuntu web browser
ii wget 1.17.1-1ubuntu1.1 amd64 retrieves files from the web
ii whiptail 0.52.18-1ubuntu2 amd64 Displays user-friendly dialog boxes from shell scripts
ii whois 5.2.11 amd64 intelligent WHOIS client
ii whoopsie 0.2.52.2 amd64 Ubuntu error tracker submission
ii whoopsie-preferences 0.18 amd64 System preferences for error reporting
ii wireless-regdb 2015.07.20-1ubuntu1 all wireless regulatory database
ii wireless-tools 30~pre9-8ubuntu1 amd64 Tools for

manipulating Linux Wireless Extensions
ii witalian 1.7.6 all Italian dictionary words for /usr/share/dict/
ii wpasupplicant 2.4-0ubuntu6 amd64 client support for WPA and WPA2 (IEEE 802.11i)
ii wxcrafter 2.7-1.xenial amd64 gui generator plugin for codelite
ii x11-apps 7.7+5+nmu1ubuntu1 amd64 X applications
ii x11-common 1:7.7+13ubuntu3 all X Window System (X.Org) infrastructure
ii x11-session-utils 7.7+2 amd64 X session utilities
ii x11-utils 7.7+3 amd64 X11 utilities
ii x11-xkb-utils 7.7+2 amd64 X11 XKB utilities
ii x11-xserver-utils 7.7+7 amd64 X server utilities
ii x11proto-composite-dev 1:0.4.2-2 all X11 Composite extension wire protocol
ii x11proto-core-dev 7.0.28-2ubuntu1 all X11 core wire protocol and auxiliary headers
ii x11proto-damage-dev 1:1.2.1-2 all X11 Damage extension wire protocol
ii x11proto-dri2-dev 2.8-2 all X11 DRI2 extension wire protocol
ii x11proto-fixes-dev 1:5.0-2ubuntu2 all X11 Fixes extension wire protocol
ii x11proto-gl-dev 1.4.17-1 all X11 OpenGL extension wire protocol
ii x11proto-input-dev 2.3.1-1 all X11 Input extension wire protocol
ii x11proto-kb-dev 1.0.7-0ubuntu1 all X11 XKB extension wire protocol
ii x11proto-randr-dev 1.5.0-1 all X11 RandR extension wire protocol
ii x11proto-render-dev 2:0.11.1-2 all X11 Render extension wire protocol
ii x11proto-xext-dev 7.3.0-1 all X11 various extension wire protocol
ii x11proto-xf86vidmode-dev 2.3.1-2 all X11 Video Mode extension wire protocol
ii x11proto-xinerama-dev 1.2.1-2 all X11 Xinerama extension wire protocol
ii xauth 1:1.0.9-1ubuntu2 amd64 X authentication utility
ii xbitmaps 1.1.1-2 all Base X bitmaps
ii xbrlapi 5.3.1-2ubuntu2.1 amd64 Access software for a blind person using a braille display - xbrlapi
ii xcursor-themes 1.0.4-1 all Base X cursor themes
ii xdg-user-dirs 0.15-2ubuntu6 amd64 tool to manage well

known user directories
ii xdg-user-dirs-gtk 0.10-1ubuntu1 amd64 tool to manage well known user directories (Gtk extension)
ii xdg-utils 1.1.1-1ubuntu1.16.04.1 all desktop integration utilities from freedesktop.org
ii xdiagnose 3.8.4.1 all X.org diagnosis tool
ii xfonts-base 1:1.0.4+nmu1 all standard fonts for X
ii xfonts-encodings 1:1.0.4-2 all Encodings for X.Org fonts
ii xfonts-scalable 1:1.0.3-1.1 all scalable fonts for X
ii xfonts-utils 1:7.7+3 amd64 X Window System font utility programs
ii xinit 1.3.4-3ubuntu0.1 amd64 X server initialisation tool
ii xinput 1.6.2-1 amd64 Runtime configuration and test of XInput devices
ii xkb-data 2.16-1ubuntu1 all X Keyboard Extension (XKB) configuration data
ii xml-core 0.13+nmu2 all XML infrastructure and XML catalog file support
ii xorg 1:7.7+13ubuntu3 amd64 X.Org X Window System
ii xorg-docs-core 1:1.7.1-1ubuntu1 all Core documentation for the X.org X Window System
ii xorg-sgml-doctools 1:1.11-1 all Common tools for building X.Org SGML documentation
ii xserver-common 2:1.18.4-0ubuntu0.2 all common files used by various X servers
ii xserver-xorg 1:7.7+13ubuntu3 amd64 X.Org X server
ii xserver-xorg-core 2:1.18.4-0ubuntu0.2 amd64 Xorg X server - core server
ii xserver-xorg-input-all 1:7.7+13ubuntu3 amd64 X.Org X server -- input driver metapackage
ii xserver-xorg-input-evdev 1:2.10.1-1ubuntu2 amd64 X.Org X server -- evdev input driver
ii xserver-xorg-input-synaptics 1.8.2-1ubuntu3 amd64 Synaptics TouchPad driver for X.Org server
ii xserver-xorg-input-vmmouse 1:13.1.0-1ubuntu2 amd64 X.Org X server -- VMMouse input driver to use with VMWare
ii xserver-xorg-input-wacom 1:0.32.0-0ubuntu3 amd64 X.Org X server -- Wacom input driver
ii xserver-xorg-video-all 1:7.7+13ubuntu3 amd64 X.Org X server -- output driver metapackage
ii xserver-xorg-video-amdgpu 1.1.0-1 amd64 X.Org X server -- AMDGPU display driver
ii xserver-xorg-video-ati 1:7.7.0-1 amd64 X.Org X server -- AMD/ATI display driver wrapper
ii xserver-xorg-video-fbdev 1:0.4.4-1build5 amd64 X.Org X server -- fbdev display driver
ii xserver-xorg-video-intel 2:2.99.917+git20160325-1ubuntu1.2 amd64

X.Org X server -- Intel i8xx, i9xx display driver
ii xserver-xorg-video-nouveau 1:1.0.12-1build2 amd64 X.Org X server -- Nouveau display driver
ii xserver-xorg-video-qxl 0.1.4-3ubuntu3 amd64 X.Org X server -- QXL display driver
ii xserver-xorg-video-radeon 1:7.7.0-1 amd64 X.Org X server -- AMD/ATI Radeon display driver
ii xserver-xorg-video-vesa 1:2.3.4-1build2 amd64 X.Org X server -- VESA display driver
ii xserver-xorg-video-vmware 1:13.1.0-2ubuntu3 amd64 X.Org X server -- VMware display driver
ii xterm 322-1ubuntu1 amd64 X terminal emulator
ii xtrans-dev 1.3.5-1 all X transport library (development files)
ii xul-ext-ubufox 3.2-0ubuntu1 all Ubuntu modifications for Firefox
ii xz-utils 5.1.1alpha+20120614-2ubuntu2 amd64 XZ-format compression utilities
ii yelp 3.18.1-1ubuntu4 amd64 Help browser for GNOME
ii yelp-xsl 3.18.1-1 all XSL stylesheets for the yelp help browser
ii zeitgeist-core 0.9.16-0ubuntu4 amd64 event logging framework - engine
ii zeitgeist-datahub 0.9.16-0ubuntu4 amd64 event logging framework - passive logging daemon
ii zenity 3.18.1.1-1ubuntu2 amd64 Display graphical dialog boxes from shell scripts
ii zenity-common 3.18.1.1-1ubuntu2 all Display graphical dialog boxes from shell scripts (common files)
ii zip 3.0-11 amd64 Archiver for .zip files
ii zlib1g:amd64 1:1.2.8.dfsg-2ubuntu4 amd64 compression library - runtime
ii zlib1g:i386 1:1.2.8.dfsg-2ubuntu4 i386 compression library - runtime
ii zlib1g-dev:amd64 1:1.2.8.dfsg-2ubuntu4 amd64 compression library - development

Found in path(s):
* /opt/cola/permits/2040574555_1717537232.8123631/0/295b9e165630428509cb78428a3228df-a33984527a42fe4c3a6bea86d6b9a4e91b9b88e7-zip/295b9e165630428509cb78428a3228df-a33984527a42fe4c3a6bea86d6b9a4e91b9b88e7/packages.list

1.163 gpgv 2.2.19-3ubuntu2.2

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.164 libgcc-s1 10.5.0-1ubuntu1~20.04

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DRuntime: Runtime Library for the D Programming Language
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1.165 sysvinit-utils 2.96-2.1ubuntu1

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1.167 libcom-err 1.45.5-2ubuntu1.1

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

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c
===
--- 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
-
-   Copyright (C) Andrew Tridgell 2005
+   Copyright (C) Andrew Tridgell 1999-2005
+   Copyright (C) Jeremy Allison 2000-2006
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    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released
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Gadi Oxman, August 1995

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    Theodore Ts'o
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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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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 ss
command-line interface parsing library. It is currently
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This package was put together by Yann Dirson <dirson@debian.org>,
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system utilities, which are otherwise packaged as "e2fsprogs".

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1.168 logsave 1.45.5-2ubuntu1.1

1.168.1 Available under license :

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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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files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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Index: tdbsa/tdb.c
===
--- 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
-
-   Copyright (C) Andrew Tridgell   2005
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Gadi Oxman, August 1995

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    Theodore Ts'o
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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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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*/
This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

 ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
 svn://gcc.gnu.org/svn/gcc/   (for prereleases)
 ftp://sourceware.org/pub/newlib/   (for newlib)
 git://git.savannah.gnu.org/gm2.git   (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,

library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-10	libgnat-10	gnat-10-doc
BRIG	gccbrig-10	libhsail-rt0	
C	gcc-10		gcc-10-doc
C++	g++-10	libstdc++6	libstdc++6-10-doc
D	gdc-10		
Fortran 95	gfortran-10	libgfortran5	gfortran-10-doc
Go	gccgo-10	libgo0	
Objective C	gobjc-10	libobjc4	
Objective C++	gobjc++-10		
Modula-2	gm2-10	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-10-dbg	libstdc++6-10-pic	
D	libphobos-10-dev			

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-10-base	Base files common to all compilers
gcc-10-soft-float	Software floating point (ARM only)
gcc-10-source	The sources with patches

Ada:

libgnat-util10-dev, libgnat-util10	GNAT version library

C:

cpp-10, cpp-10-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code,

Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber

- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-10 Ada support library and libgnat-util10
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- Various config files in gcc/config/ used in runtime libraries.
- libvtv

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Developed by:

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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libphobos-10-dev D standard runtime library

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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:

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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".

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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:

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.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no

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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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Version 2, June 1991

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

Preamble
========

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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.

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If distribution of object code is
made by offering access to copy
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any
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1.170 libncurses 6.2-0ubuntu2.1

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1.171 liblzma 5.2.4-1ubuntu1.1

1.171.1 Available under license :

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Upstream-Name: XZ Utils
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Lasse Collin <lasse.collin@tukaani.org>
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 To: Jonathan Nieder <jrnieder@gmail.com>
 Subject: Re: XZ utils for Debian
 Date: Sun, 19 Jul 2009 13:28:23 +0300
 Message-Id: <200907191328.23816.lasse.collin@tukaani.org>
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1.172 lsb-base 11.1.0ubuntu2

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1.173 libext2fs2 1.45.5-2ubuntu1.1

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

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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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files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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Index: tdbsa/tdb.c
===
--- 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
-
-   Copyright (C) Andrew Tridgell   2005
+   Copyright (C) Andrew Tridgell   1999-2005
+   Copyright (C) Jeremy Allison   2000-2006
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     ** NOTE! The following LGPL license applies to the tdb
     ** library. This does NOT imply that all of Samba is released
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Gadi Oxman, August 1995

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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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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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1.174 libdebconfclient0 0.251ubuntu1

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1.175 gcc-10-base 10.5.0-1ubuntu1~20.04

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language
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1.176 libss 1.45.5-2ubuntu1.1

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1.177 libglibdata 2.64.6-1~ubuntu20.04.6

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1.179 xxhash 2.1.2

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