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Text Part Number: 78EE117C99-1935407391

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1.2 coreutils 8.30-3ubuntu2

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1.4 dash 0.5.10.2-6

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1.6 libcap-ng 0.7.9-2.1build1

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1.8 mawk 1.3.4.20200120-2

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1.9 findutils 4.7.0-1ubuntu1

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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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This option is useful when you wish to copy part of the code of

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables

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

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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.

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1.11 selinux 3.0-1build2

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1.12 grep 3.4-1

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The

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Since May 20 2000, it is maintained by Roland Bauerschmidt [<rb@debian.org>](mailto:rb@debian.org).

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1.15 debianutils 4.9.1

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1.17 hostname 3.23

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1.18 acl 2.2.53-6

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1.19 sed 4.7-1

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1.23 base-passwd 3.5.47

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passwd.master
group.master
License: PD
X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and
Bruce Perens <bruce@pixar.com>.

Files: doc/*
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Copyright 2007 David Mandelberg
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1.24 bzip2 1.0.8-2

1.24.1 Available under license :

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.25 cracklib 2.9.6-3.2

1.25.1 Available under license :

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

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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:

> 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.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=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

> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > 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
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> > released under. This wasn't actually a license change, just a
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> not
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> 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.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.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.umn.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-ipv6.cc.umn.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 I91GxtpR020623
for <nneul@umn.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.umn.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@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@umn.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

1.26 libpwquality 1.4.2-1build1

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```

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```

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

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1.27 cdebconf 0.251ubuntu1

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1.28 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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1.31 attr 2.4.48-5

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The

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```
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under certain conditions; type `show c' for details.
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1.34 Isb 11.1.0ubuntu2

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Upstream-Name: LSB implementation package

Files: *

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1.35 libxcrypt 4.4.10-10ubuntu4

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1.36 sysv-init 2.96-2.1ubuntu1

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For Zstandard software

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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.

*/

1.38 fdisk 2.34.0

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1.39 libtasn 4.16.0-2

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@c ispell-local-pdict: "ispell-dict"
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1.42 x-crypto 0.0.0-20210220033148-5ea612d1eb83

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1.43 lz4 1.9.2-2ubuntu0.20.04.1

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CAMELLIA

The C implementation is by Nippon Telegraph and Telephone Corporation (NTT), heavily modified by Niels Mller. Assembler for x86 and x86_64 by Niels Mller. Released under the LGPL.

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CAST128

The implementation of the CAST128 cipher is written by Steve Reid. Released into the public domain.

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DES

The implementation of the DES cipher is written by Dana L. How, and released under the LGPL.

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MD2

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MD5

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SHA224, SHA256, SHA384, and SHA512

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TWOFISH

The implementation of the TWOFISH cipher is written by Ruud de
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RSA

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

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

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

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"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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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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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

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

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(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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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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Arcata, CA 95521-4884

grady@netcom.com
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The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21
+0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English

> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filespace called PUBLIC on the University mainframe, because it was considered public domain.

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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The name files from the Census report is a government document which I don't think can be copyrighted.

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```
phonetic_english.h - phonetic transformation rules for use with phonetic.c
# Copyright (C) 2000 Björn Jacke
#
# This rule set is based on Lawrence Phillips original metaphone
# algorithm with modifications made by Michael Kuhn in his
# C implantation, more modifications by Björn Jacke when
# converting the algorithm to a rule set and minor
# touch ups by Kevin Atkinson
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#
# Björn Jacke may be reached by email at bjoern.jacke@gmx.de
#
# 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.
#
```

1.49 libpwquality-common 1.4.2-1build1

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1.50 libpwquality1 1.4.2-1build1

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1.52 libcrack 2.9.6-3.2

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

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

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

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

If such an object file uses only numerical parameters, data

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

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6.

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

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

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

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

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

- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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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,

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1.57 go-autorest-tracing 0.6.0

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1.58 go-autorest-date 0.3.0

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1.59 cloud-google-com-go 0.65.0

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package cloud

import (

"bytes"

"io/ioutil"

"os"

"path/filepath"

```

"strings"
"testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }

        if
        ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }
    })
}

```

```
return nil
})
if err != nil {
    t.Fatal(err)
}
}
```

1.60 logr 0.4.0

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1.61 go-autorest-adal 0.9.13

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1.62 kube-openapi 0.0.0-20210421082810-95288971da7e

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
// Copyright 2015 go-swagger maintainers
//
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```

package spec

import "testing"

```
func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"
```

```
    assertSerializeJSON(t, license, licenseJSON)
```

```
assertParsesJSON(t, licenseJSON, license)
}
```

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1.64 jwt-go 3.2.3+incompatible

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1.65 golang-glog 1.0.0

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1.66 x-time-rate 0.0.0-20210723032227-1f47c861a9ac

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1.67 utils 0.0.0-20210819203725-bdf08cb9a70a

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1.68 evanphx-json-patch 4.11.0+incompatible

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1.69 zap 1.19.0

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1.70 form3tech-oss-jwt-go 3.2.3+incompatible

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1.71 googleapis-gnostic 0.5.5

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1.72 go-logr-zapr 0.4.0

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1.73 spf13-pflag 1.0.5

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1.74 x-text 0.3.7

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1.75 afero 1.0.5

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1.76 felixge-httpsnoop 1.0.1

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1.77 gopkg.in-yaml 3.0.0-20210107192922-496545a6307b

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1.78 kubernetes-klog 2.9.0

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1.79 x-term 0.0.0-20210927222741-03fcf44c2211

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1.80 json-iterator-go 1.1.12

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1.81 modern-go-reflect2 1.0.2

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1.82 kubernetes-client 0.22.3

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1.84 kubernetes-api 0.22.3

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1.85 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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1.88 sigs-k8s-io-yaml 1.2.0

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1.89 githubcomfsnotifyfsnotify 1.4.9

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1.90 yam1 3.0.0-20210107192922-496545a6307b

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1.91 gorilla-handlers 1.5.1

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1.92 httpsnoop 1.0.1

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1.93 jsonpatch 4.11.0+incompatible

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1.94 k8s-io-apiextensions-apiserver 0.22.2

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1.96 zapr 0.4.0

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1.97 controller-runtime 0.10.3

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1.100 x-net 0.0.0-20220225172249-27dd8689420f

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1.101 xz 5.2.4-1ubuntu1.1

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Comment:

From: Lasse Collin <lasse.collin@tukaani.org>

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>

.

[...]

.

> AUTHORS, ChangeLog, COPYING, README, THANKS, TODO,

> dos/README,

windows/README

.

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Files: Doxyfile.in
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Files: src/liblzma/check/crc32_table_?e.h
src/liblzma/check/crc64_table_?e.h
src/liblzma/lzma/fastpos_table.c
src/liblzma/rangecoder/price_table.c
Copyright: none, automatically generated data

Generated-With:

src/liblzma/check/crc32_tablegen.c

src/liblzma/check/crc64_tablegen.c

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Source-Code: tests/bcj_test.c

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Comment:

changelog.gz (commit 975d8fd) explains:

.

Recreated the BCJ test files for x86 and SPARC. The old files were linked with crt*.o, which are copyrighted, and thus the old test files were not in the public domain as a whole. They are freely distributable though, but it is better to be careful and avoid including any copyrighted pieces in the test files. The new files are just compiled and assembled object files, and thus don't contain any copyrighted code.

Files: po/cs.po po/de.po po/fr.po

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Files: po/it.po po/pl.po

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Files: INSTALL.generic

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Files: dos/config.h

Copyright: 1992, 1993, 1994, 1999, 2000, 2001, 2002, 2005
Free Software Foundation, Inc.
2007-2010, Lasse Collin

Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,
David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,
visibility.m4 serial 1 (gettext-0.15),
Autoconf 2.52g

License: config-h
configure.ac:

```
.
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dnl From
Bruno Haible.
.
comments from Autoconf 2.52g:
.
# Copyright 1992, 1993, 1994, 1999, 2000, 2001, 2002
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[...]
```

```
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```

dos/config.h was generated with autoheader, which tells Autoconf to output a script to generate a config.h file and then runs it.

Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

Copyright: 2003 Free Software

Foundation, Inc.

Authors: Bruno Haible

License: LGPL-2.1+

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support/man2html.c

- * This program was written by Richard Verhoeven (NL:5482ZX35)

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1.111 x-sys 0.0.0-20220520151302-bc2c85ada10a

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1.113 google-go-cmp 0.5.8

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1.114 e2fsprogs 1.45.5-2ubuntu1.1

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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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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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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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1.116 fsnotify 1.4.9

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1.117 prometheus-common 0.37.0

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1.118 google-cloud-go 0.65.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)

var
    newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

```

```

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently.
// However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

//
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)

```

```

(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However,
// fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for

```

```

// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gax", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

//
// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp,
    err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
}

```

```

defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err
    := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
    req.GetProject(), req.GetResource())

    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return
rsp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"

```

```

"net/http"
"net/url"

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
Close() error
setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption)
(*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

```

```

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions
    *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

```



```

}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party
partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource.
Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect

```

```

to.
endpoint string

// The http client.
httpClient *http.Client

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gopic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

```

```

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified
// license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp);

```

```

err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for
    k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }
}

```

```

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl,
    _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {

```

```

    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true,
DiscardUnknown: true}
rsp := &computepb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if
    err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
}

```

```

}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &compute.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of

publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *compute.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*compute.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*compute.License, string, error) {
        resp := &compute.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))

```

```

}
baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses",
req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
    params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if
err != nil {
    return nil, "", err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {

```



```

    return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func
(c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
}

```

```

}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf,
err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return nil, err
    }

```

```

httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    //
    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.

```

```

// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)
    Next() (*computepb.License, error) {
        var item *computepb.License
        if err := it.nextFunc(); err != nil {
            return item, err
        }
        item = it.items[0]
        it.items = it.items[1:]
        return item, nil
    }

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

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package compute_test

```

```

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use
    client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
}

```

```

req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (

 "context"

 compute "cloud.google.com/go/compute/apiv1"

 "google.golang.org/api/iterator"

 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"

)

func ExampleNewLicensesRESTClient() {

 ctx := context.Background()

 c, err := compute.NewLicensesRESTClient(ctx)

 if err != nil {

 // TODO: Handle error.

 }

 defer

 c.Close()

```

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    resp, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy()
{
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)

```

```

if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
    resp, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_List() {
    ctx :=
    context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.

```

```

// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func
ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See

```

```

https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

1.119 prometheus-procfs 0.8.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state 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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Also add information on how to contact you by electronic and paper mail.

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<program> Copyright (C) <year> <name of author>

This program comes with ABSOLUTELY
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This is free software, and you are welcome to redistribute it
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c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

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

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```
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```

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```
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```

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

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Version 2.1, February 1999

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

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

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable

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

entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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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.

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

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

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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#+TITLE: List of code with permissive licenses as used by GnuPG.

#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.121 libcrypt 4.4.10-10ubuntu4

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1.122 pcre 10.34-7ubuntu0.1

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Written by: Philip Hazel
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1.123 pcre 8.39-12ubuntu0.1

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1.124 audit 2.8.5-2ubuntu6

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1.126 prometheus-client 1.13.0

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

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

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

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

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c

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

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

Found in path(s):

* /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.

Not copyrighted -- provided to the public domain

Found in path(s):

* /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.

```
/* 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 patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method
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):

* /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.

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

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

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Found in path(s):

* /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.

/* 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):

* /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.

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infbck.c

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

/* gzlog.h

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version 2.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /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.

/* 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):

* /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.

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h

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

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

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

*/

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

Condition of use and distribution are the same than zlib :

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Changes

See header of zip.h

*/

Found in path(s):

* /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.

/*

* 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):

* /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.

/* 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):

* /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.

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>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto: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. Dobbs'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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jloup@gzip.org	madler@alumni.caltech.edu

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

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

Found in path(s):

* /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.

```
/* 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):

```
* /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.

```
/* 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):

```
* /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.

```
/* 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):

* /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.

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.h

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):

* /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.

/* 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):

* /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.

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

* /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.

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c

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

/* 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):

* /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):

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

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

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c

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

/* example.c -- usage example of the zlib compression library

* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

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

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

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

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

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /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.

```
/* 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):

```
* /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.

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

Introduction

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

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

Background

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

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

Changed from MiniZip 1.0 to MiniZip 1.1

```
* Added ZIP64 support for unzip ( by Even Rouault )
* Added ZIP64 support for zip ( by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
```

- * Bunch of patches received from Gilles 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):

* /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):

* /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.

/* gzclose.c -- zlib gzclose() function

* Copyright (C) 2004, 2010 Mark Adler

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

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

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

/* 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):

* /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.

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

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

/* inffast.c -- fast decoding

* Copyright (C) 1995-2017 Mark Adler

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

*/

Found in path(s):

* /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.

/* 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):

* /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.

/* Adler-32.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):

* /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.

/* 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):

* /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.

/* 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):

* /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.

/* 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):

* /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.

/* 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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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /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.

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 latest 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):

* /zlib-1.2.11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.128 shadow 4.8.1-1ubuntu5.20.04.4

1.128.1 Available under license :

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1.130 common 0.37.0

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1.135 dragonfly-addons-dragonfly-controller-commons 0.5.3-beta

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1.137 gogo-protobuf 1.3.2

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.138 scowl 2018.04.16-1

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in addition to providing the 12Dicts package and being a major
contributor to the ENABLE word list, given me an incredible amount of
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Supplement) in order to help improve the overall quality of SCOWL.

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inline

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<signature of Ty Coon>, 1 April 1989
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The

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

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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, Vtislav
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
Lobbess, 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
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
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
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Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
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Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
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1.142 libxml2 2.9.10+dfsg-5ubuntu0.20.04.6

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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!

1.144 zlib1g 1.2.11.dfsg-2ubuntu1.5

1.144.1 Available under license :

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

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

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

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

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

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c

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

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

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h

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Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html

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/* 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 patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method
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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

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/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

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/* inffback.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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infbck.c

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/* gzlog.h

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version 2.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /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.

/* 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):

* /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.

/* 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):

* /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.

/* 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):

* /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.

```
/* 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):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
```

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

```
/*
* 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):

```
* /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.

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

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
* /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.

```
/* 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):

* /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.

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>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto: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>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs'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 (formerly OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

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

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

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

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

Found in path(s):

* /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.

/* 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):

* /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.

```
/* 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):
* /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.

```
/* 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):
* /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.

```
/* 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):

* /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.

/* 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):

* /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.

/* 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):

* /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.

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c

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

/* 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):

* /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.

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.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):

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

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/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c

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/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

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

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c

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

Introduction

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

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.

All possible work was done for compatibility.

Background

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

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

Changed from MiniZip 1.0 to MiniZip 1.1

- * Added ZIP64 support for unzip (by Even Rouault)
- * Added ZIP64 support for zip (by Mathias Svensson)
- * Reverted some changed that Even Rouault did.
- * Bunch of patches received from Gilles 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):

* /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.

/*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

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

/* 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):

* /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.

/* gzclose.c -- zlib gzclose() function

* Copyright (C) 2004, 2010 Mark Adler

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

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

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

/* 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):

* /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.

/* 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

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

/* inffast.c -- fast decoding

* Copyright (C) 1995-2017 Mark Adler

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

*/

Found in path(s):

* /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.

/* 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):

* /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.

/* 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):

* /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.

```
/* 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):

```
* /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.

```
/* 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):

```
* /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.

```
/* 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):

```
* /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.

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

*/

Found in path(s):

* /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.

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 latest 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 infrees.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 `sprintf()` or `vsprintf()` 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.145 login 4.8.1-1ubuntu5.20.04.4

1.145.1 Available under license :

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1.148 libaudit 2.8.5-2ubuntu6

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1.149 githubcomgooglegofuzz 1.1.0

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1.150 githubcomgolangprotobuf 1.5.2

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1.151 go-uber-org-atomic 1.7.0

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1.152 term 0.0.0-20210927222741-03fcf44c2211

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1.153 x-time 0.0.0-20210723032227-1f47c861a9ac

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1.154 googlecloudgo 0.65.0

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```

package cloud

```
import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
    })
}
```

```

}

if ext := filepath.Ext(path);
ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
})
if err != nil {
    t.Fatal(err)
}
}

```

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1.155 procfs 0.8.0

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fields:

site: string

author: root

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1.158 klog 2.9.0

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1.159 k8s-io-kube-openapi 0.0.0- 20210421082810-95288971da7e

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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```

package spec

import "testing"

```
func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"
```

```
    assertSerializeJSON(t, license, licenseJSON)
```

```
assertParsesJSON(t, licenseJSON, license)
}
```

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1.160 component-base 0.22.2

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1.162 go-uber-org-zap 1.19.0

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1.163 githubcompelletiergotoml 1.9.4

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localtime.go, localtime_test.go:

Originals:

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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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1.164 systemd 245.4-4ubuntu3.22

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1.168 k8s-io-apimachinery 0.22.3

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1.169 githubcomgolangglog 1.0.0

1.169.1 Available under license :

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1.170 perl-base 5.30.0-9ubuntu0.4

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?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_quadmath.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):

* /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: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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fenv.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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_acosh.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):

* /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_sysutsname.U,v \$

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?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):

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?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):

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?RCS: \$Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/baserev.U

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/*

* \$Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram \$

*

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```

* 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):

```

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/getopt.C
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```

```

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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):

```

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fchdir.U
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```

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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):

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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):

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?RCS:
?MAKE:d_socketmark: Inlibc
?MAKE: -pick add $@ %<
?S:d_socketmark:
?S: This variable conditionally defines the HAS_SOCKETMARK symbol, which
?S: indicates to the C program that the socketmark() routine is available.
?S:.
?C:HAS_SOCKETMARK:
?C: This symbol, if defined, indicates that the socketmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
?H:#$d_socketmark HAS_SOCKETMARK /**/
?H:.
?LINT:set d_socketmark
: see if socketmark exists
set socketmark d_socketmark
eval $inlibc
```

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?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_trunc1.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_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):

* /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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lroundl.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2019 Karl Williamson

?RCS:

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?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_towupper.U

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?RCS:

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?RCS:

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?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setproctitle.U

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?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker

?RCS:

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?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):

* /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: 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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_shadow.U

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

```

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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fpgetround.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 \$

*

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*

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* 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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/rename.C

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

?RCS: \$Id: i_fp_class.U,v \$

?RCS:

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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):

* /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:

?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lround.U

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

?RCS: \$Id\$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?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):

* /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_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):

* /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: \$Id\$

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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):
* /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.

?RCS: \$Id: Nothing.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: 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):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Nothing.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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ilogb.U

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?RCS: \$Id\$

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?RCS:

?MAKE:d_mkdtmp: Inlibc

?MAKE: -pick add \$@ %<

?S:d_mkdtmp:

?S: This variable conditionally defines the HAS_MKDTEMP symbol, which

?S: indicates to the C program that the mkdtmp() routine is available

?S: to exclusively create a uniquely named temporary directory.

?S:.

?C:HAS_MKDTEMP :

?C: This symbol, if defined, indicates that the mkdtmp routine is

?C: available to exclusively create a uniquely named temporary directory.

?C:.

?H:#\$d_mkdtmp HAS_MKDTEMP /**/

?H:.

?LINT:set d_mkdtmp

: see if mkdtmp exists

set mkdtmp d_mkdtmp

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_mkdtmp.U

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?RCS: \$Id: i_bfd.U,v \$

?RCS:

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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):

* /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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remquo.U

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

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_finite.U

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

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysign.U

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

?RCS: \$Id\$

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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtold.U

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

?RCS: \$Id: i_sysmount.U,v \$

?RCS:

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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmount.U
 No license file was found, but licenses were detected in source scan.

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

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_sysuio.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):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdim.U
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 ?RCS: License or the Artistic License, as specified in the README file.

?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):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_tgamma.U
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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_atanh.U

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

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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atollf.U

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?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atoll.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):

* /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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_finitel.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):

* /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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erfc.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the WRITEME file.

?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):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_writev.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_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):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nexttoward.U
 No license file was found, but licenses were detected in source scan.

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 ?RCS:
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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getmnt.U

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 ?RCS:
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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):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isinfl.U
```

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

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtouq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtouq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#$d_strtoq HAS_STRTOQ /**/
?H:.
?LINT:set d_strtoq
: see if strtouq exists
set strtouq d_strtoq
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtoq.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:
?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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmode.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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getaddrinfo.U

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

?RCS: \$Id\$

?RCS:

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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_hasmntopt.U

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

?RCS: \$Id: i_mntent.U,v \$
 ?RCS:
 ?RCS: Copyright (c) 1999 Jarkko Hietaniemi
 ?RCS:
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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_mntent.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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fmax.U

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?RCS: License or the Artistic License, as specified in the README file.

?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unordered.U

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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strftime.U

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?RCS:

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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):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_readv.U
 No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_socks.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_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):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_socks.U

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

```
?RCS: $Id$
?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:d_frexp! Inlibc
?MAKE: -pick add $@ %<
?S:d_frexp!
?S: This variable conditionally defines the HAS_FREXP! symbol, which
?S: indicates to the C program that the frexp() routine is available.
?S:.
?C:HAS_FREXP!:
?C: This symbol, if defined, indicates that the frexp routine is
?C: available to break a long double floating-point number into
?C: a normalized fraction and an integral power of 2.
?C:.
?H:#$d_frexp HAS_FREXP! /**/
?H:.
?LINT:set d_frexp
: see if frexp exists
set frexp d_frexp
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_frexp.U

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

```
?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Null.U

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

?RCS: \$Id\$

?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: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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_eaccess.U

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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):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_exp2.U
```

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

```
?RCS: $Id: i_libutil.U,v $
?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: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):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_libutil.U
```

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

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 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_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):

* /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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdclose.U

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

?RCS: \$Id: i_fp.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_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):
 * /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.

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 ?RCS:
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 ?RCS:
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 ?RCS: License or the Artistic License, as specified in the README file.
 ?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getcwd.U

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?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/Loc_ar.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):

* /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: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):

* /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_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):

* /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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fmin.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):

* /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: i_netdb.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_netdb.U

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?RCS: \$Id\$

?RCS:

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?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_recvmsg.U

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

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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unsetenv.U

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

?RCS: \$Id\$

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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_qgcvt.U

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

/*

* \$Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram \$

*

* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

*

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* 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: scandir.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:45 ram

* patch16: created

*

*/

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/scandir.C

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

?RCS: \$Id: i_ieeefp.U,v \$

?RCS:

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?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 <ieee.h>.

?S:.

?C:I_IEEEFP:

?C: This symbol, if defined, indicates that <iieee.h> exists and

?C: should be included.

?C:.

?H:#\$i_ieee I_IEEEFP /**/

?H:.

?LINT:set i_ieee

: see if this is a ieee.h system

case "\$i_ieee" in

") set ieee.h i_ieee

eval \$inhdr

;;

esac

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_ieee.U

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

?RCS: \$Id\$

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?RCS:

?MAKE:d_scalbn: Inlibc

?MAKE: -pick add \$@ %<

?S:d_scalbn:

?S: This variable conditionally defines the HAS_SCALBNL symbol, which

?S: indicates to the C program that the scalbn() 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 scalbn routine is

?C: available. If ilogbl is also present we can emulate frexpl.

?C:.

?H:#\$d_scalbn HAS_SCALBNL /**/

?H:.

?LINT:set d_scalbn

: see if scalbn exists

set scalbn d_scalbn

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_scalbn.U

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?RCS: \$Id: i_sunmath.U,v \$

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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):
 * /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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fsync.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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nan.U

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?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):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_expm1.U
```

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?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):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_clearenv.U
```

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

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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_localeconv_l.U

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

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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):

* /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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fma.U

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?RCS:

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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):

* /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:

?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):

* /perl-5-30-0-origin-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_scalbn.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):

* /perl-5-30-0-origin-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erf.U

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```
?RCS: $Id: i_ustat.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_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):

```
* /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) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?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 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):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/compline/randbits.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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lgamma.U

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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:.

?H:.

?LINT:set d_log2

: see if log2 exists

set log2 d_log2

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log2.U

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```
?RCS: $Id: i_poll.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_poll.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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_asinh.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_inetpton.U

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

?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):

* /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_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):

* /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_trunc: Inlibc

?MAKE: -pick add \$@ %<

?S:d_trunc:

?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_trunc.U

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

?RCS: \$Id: i_sysstatfs.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysstatfs.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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_langinfo.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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lrintl.U

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?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:

?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):

* /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_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):
* /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.

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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?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):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysignl.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_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_LLRLINT:

?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_LLRLINT /**/

?H:.

?LINT:set d_llrint

: see if llrint exists

set llrint d_llrint

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llrint.U

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?RCS: \$Id: i_crypt.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_crypt.U

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

```

?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fseeko.U

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

```

?RCS: $Id$
?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: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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sendmsg.U

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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setitimer.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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llround.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_aintl: Inlibc

?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_aintl.U

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Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/files/Jmake.tmpl

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fp_classl.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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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):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ftello.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id$
?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: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):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getnameinfo.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: i_syslog.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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_syslog.U

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

/*

* \$Id: setid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram \$

*

* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

*

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* 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: setid.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:47 ram

* patch16: created

*

*/

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/setid.C

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?RCS: License or the Artistic License, as specified in the README file.

?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):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nearbyint.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_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):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log1p.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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_towlower.U

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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_strtod_l.U

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

?RCS: \$Id\$

?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: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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_accessx.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):
 * /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.

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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):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llroundl.U
 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_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):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getfsstat.U
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysstatvfs.U,v \$
 ?RCS:
 ?RCS: Copyright (c) 1999 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_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):

* /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: 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):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/dup2.C
```

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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):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remainder.U
```

1.171 perl 5.30.0-9ubuntu0.4

1.171.1 Available under license :

The "Artistic License"

Preamble

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A Package

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c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, 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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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 typedef 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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<one line to give the program's name and a brief idea of what it does.>
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```
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.
```

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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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The

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```
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1.174 libuuid 2.34-0.1ubuntu9.4

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1.178 glib 2.64.6-1~ubuntu20.04.6

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Version 3, 29 June 2007

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1.181 ncurses 6.2-0ubuntu2.1

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-- \$Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp \$
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-- vile: txtmode file-encoding=utf-8

1.182 openssl 1.1.1v

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1.185 go.uber.org/atomic 1.7.0

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1.187 golang 1.19.12

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1.188 k8s-io-client-go 0.22.3

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1.189 glibc 2.31-0ubuntu9.12

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1.190 go-toml 1.9.4

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localtime.go, localtime_test.go:

Originals:

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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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1.191 libssl 1.1.1f-1ubuntu2.20

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```

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```
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under certain conditions; type `show c'  
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```

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```
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```

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<signature of Ty Coon>, 1 April 1990
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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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For details see https://shiftleft.org/papers/vector_aes/ and

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1.200 pflag 1.0.5

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1.208 json iterator go 1.1.12

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1.209 mux 1.8.0

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1.210 go-autorest-logging 0.2.1

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1.211 libc 2.31-0ubuntu9.12

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1.215 libapt-pkg 2.0.10

1.215.1 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 game collection	1:3.18.2-1ubuntu1	amd64	GNOME solitaire card
ii alsa-base configuration files	1.0.25+dfsg-0ubuntu5	all	ALSA driver
ii alsa-utils 1.1.0-0ubuntu5	amd64	Utilities for configuring and using ALSA	
ii anacron doesn't go by time	2.3-23	amd64	cron-like program that
ii ant	1.9.6-1ubuntu1	all	Java based build tool like make
ii ant-optional make - optional libraries	1.9.6-1ubuntu1	all	Java based build tool like
ii apg Generator - Standalone version	2.2.3.dfsg.1-2ubuntu1	amd64	Automated Password
ii app-install-data files)	15.10	all	Ubuntu applications (data
ii app-install-data-partner 16.04	all	Application Installer (data files for partner applications/repositories)	
ii apparmor utility for AppArmor	2.10.95-0ubuntu2.5	amd64	user-space parser
ii appmenu-qt:amd64 menu for Qt	0.2.7+14.04.20140305-0ubuntu2	amd64	application
ii appmenu-qt5 menu for Qt5	0.3.0+16.04.20151130-0ubuntu1	amd64	application
ii apport reports for debugging	2.20.1-0ubuntu2.5	all	automatically generate crash
ii apport-gtk apport crash report system	2.20.1-0ubuntu2.5	all	GTK+ frontend for the
ii apport-symptoms	0.20		
	all	symptom scripts for apport	
ii appstream index	0.9.4-1ubuntu2	amd64	Software component
ii apt	1.2.18	amd64	commandline package manager
ii apt-transport-https for APT	1.2.18	amd64	https download transport
ii apt-utils utility programs	1.2.18	amd64	package management related
ii aptdaemon package management service	1.1.1+bzr982-0ubuntu14	all	transaction based
ii aptdaemon-data files for clients	1.1.1+bzr982-0ubuntu14	all	data
ii apturl apt protocol - GTK+ frontend	0.5.2ubuntu11.1	amd64	install packages using the
ii apturl-common the apt protocol - common data	0.5.2ubuntu11.1	amd64	install packages using
ii aspell checker	0.60.7~20110707-3build1	amd64	GNU Aspell spell-
ii aspell-en Aspell	7.1-0-1.1	all	English dictionary for GNU

ii asymptote language inspired by MetaPost	2.37-1	amd64	script-based vector graphics
ii asymptote-doc and examples for asymptote	2.37-1	all	documentation
ii at-spi2-core Service Provider Interface (dbus core)	2.18.3-4ubuntu1	amd64	Assistive Technology
ii atom 21st Century.	1.8.0	amd64	A hackable text editor for the
ii autotools-dev config.{guess,sub} files	20150820.1	all	Update infrastructure for
ii avahi-autoipd network address configuration daemon	0.6.32~rc+dfsg-1ubuntu2	amd64	Avahi IPv4LL
ii avahi-daemon mDNS/DNS-SD daemon	0.6.32~rc+dfsg-1ubuntu2	amd64	Avahi
ii avahi-utils browsing, publishing and discovery utilities	0.6.32~rc+dfsg-1ubuntu2	amd64	Avahi
ii bamfdaemon matching library - daemon	0.5.3~bzc0+16.04.20160824-0ubuntu1	amd64	Window
ii baobab analyzer	3.18.1-1ubuntu1	amd64	GNOME disk usage
ii base-files miscellaneous files	9.4ubuntu4.3	amd64	Debian base system
ii base-passwd password and group files	3.5.39	amd64	Debian base system master
ii bash	4.3-14ubuntu1.1	amd64	GNU Bourne Again SHell
ii bash-completion completion for the bash shell	1:2.1-4.2ubuntu1.1	all	programmable
ii bc calculator language	1.06.95-9build1	amd64	GNU bc arbitrary precision
ii bind9-host bundled with BIND 9.X	1:9.10.3.dfsg.P4-8ubuntu1.4	amd64	Version of 'host'
ii binfmt-support formats	2.1.6-1	amd64	Support for extra binary
ii binutils linker and binary utilities	2.26.1-1ubuntu1~16.04.3	amd64	GNU assembler,
ii bison generator	2:3.0.4.dfsg-1	amd64	YACC-compatible parser
ii blt Tcl/Tk - run-time	2.5.3+dfsg-3	amd64	graphics extension library for
ii bluez	5.37-0ubuntu5	amd64	Bluetooth tools and daemons
ii bluez-cups for CUPS	5.37-0ubuntu5	amd64	Bluetooth printer driver
ii bluez-obexd	5.37-0ubuntu5	amd64	bluez obex daemon
ii brackets	1.8.0libcrypt11-17108+1~webupd8~0	amd64	Brackets
ii branding-ubuntu Ubuntu branding	0.8	all	Replacement artwork with

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 font	1:0.6.2-2.1	all	Thai TlwgTypist TrueType
ii fonts-tlwg-typo 1:0.6.2-2.1	all	Thai TlwgTypo font (dependency package)	
ii fonts-tlwg-typo-ttf font	1:0.6.2-2.1	all	Thai TlwgTypo TrueType
ii fonts-tlwg-umpush (dependency package)	1:0.6.2-2.1	all	Thai Umpush font
ii fonts-tlwg-umpush-ttf font	1:0.6.2-2.1	all	Thai Umpush TrueType
ii fonts-tlwg-waree (dependency package)	1:0.6.2-2.1	all	Thai Waree font
ii fonts-tlwg-waree-ttf	1:0.6.2-2.1	all	Thai Waree TrueType font
ii foomatic-db-compressed-ppds printer support - Compressed PPDs derived from the database	20160212-0ubuntu1	all	OpenPrinting
ii fortune-mod on demand	1:1.99.1-7	amd64	provides fortune cookies
ii fortunes-min fortune cookies	1:1.99.1-7	all	Data files containing selected
ii freeglut3:amd64	2.8.1-2	amd64	OpenGL Utility Toolkit
ii freepats synthesis	20060219-1	all	Free patch set for MIDI audio
ii friendly-recovery friendly	0.2.31	all	Make recovery more user-
ii ftp client	0.17-33	amd64	classical file transfer
ii fuse	2.9.4-1ubuntu3.1	amd64	Filesystem in Userspace
ii fwupd	0.7.0-0ubuntu4.3	amd64	Firmware update daemon
ii fwupdate firmware updates	0.5-2ubuntu4	amd64	Tools to manage UEFI
ii fwupdate-signed Updater EFI signed binary	1.11+0.5-2ubuntu4	amd64	Linux Firmware
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 amd64 GNU C++ compiler	5.4.0-6ubuntu1~16.04.4		
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 Compiler Collection (base package)	4.9.3-13ubuntu2	amd64	GCC, the GNU
ii gcc-5	5.4.0-6ubuntu1~16.04.4	amd64	GNU C compiler
ii gcc-5-base:amd64 Compiler Collection (base package)	5.4.0-6ubuntu1~16.04.4	amd64	GCC, the GNU
ii gcc-5-base:i386 Compiler Collection (base package)	5.4.0-6ubuntu1~16.04.4	i386	GCC, the GNU
ii gcc-6-base:amd64 (base package)	6.0.1-0ubuntu1	amd64	GCC, the GNU Compiler Collection

ii gcc-6-base:i386 Compiler Collection (base package)	6.0.1-0ubuntu1	i386	GCC, the GNU
ii gconf-service database system (D-Bus service)	3.2.6-3ubuntu6	amd64	GNOME configuration
ii gconf-service-backend configuration database system (D-Bus service)	3.2.6-3ubuntu6	amd64	GNOME
ii gconf2 database system (support tools)	3.2.6-3ubuntu6	amd64	GNOME configuration
ii gconf2-common database system (common files)	3.2.6-3ubuntu6	all	GNOME configuration
ii gcr (daemon and tools)	3.18.0-1ubuntu1	amd64	GNOME crypto services
ii gdb	7.11.1-0ubuntu1~16.04	amd64	GNU Debugger
ii gdbserver (remote server)	7.11.1-0ubuntu1~16.04	amd64	GNU Debugger
ii gdisk partitioning tool	1.0.1-1build1	amd64	GPT fdisk text-mode
ii gedit GNOME desktop environment	3.18.3-0ubuntu4	amd64	official text editor of the
ii gedit-common GNOME desktop environment (support files)	3.18.3-0ubuntu4	all	official text editor of the
ii genisoimage ROM filesystem images	9:1.1.11-3ubuntu1	amd64	Creates ISO-9660 CD-
ii geoclue framework	0.12.99-4ubuntu1	amd64	Geographic information
ii geoclue-ubuntu-geoip positioning for GeoClue via Ubuntu GeoIP services	1.0.2+14.04.20131125-0ubuntu2	amd64	Provide
ii geogebra software for education	4.0.34.0+dfsg1-3	all	Dynamic mathematics
ii geoip-database tools that use the GeoIP library (country database)	20160408-1	all	IP lookup command line
ii gettext utilities	0.19.7-2ubuntu3	amd64	GNU Internationalization
ii gettext-base Internationalization utilities for the base system	0.19.7-2ubuntu3	amd64	GNU
ii gfortran compiler	4:5.3.1-1ubuntu1	amd64	GNU Fortran 95
ii gfortran-5 compiler	5.4.0-6ubuntu1~16.04.4	amd64	GNU Fortran
ii ghostscript PostScript language and for PDF	9.18~dfsg~0-0ubuntu2.3	amd64	interpreter for the
ii ghostscript-x PostScript language and for PDF - X11 support	9.18~dfsg~0-0ubuntu2.3	amd64	interpreter for the
ii gir1.2-accounts-1.0:amd64 file for	1.21+16.04.20160222-0ubuntu1	amd64	typelib

libaccounts-glib0				
ii gir1.2-appindicator3-0.1 files for libappindicator3-1.	12.10.1+15.04.20141110-0ubuntu1	amd64	Typelib	
ii gir1.2-atk-1.0 (GObject introspection)	2.18.0-1	amd64	ATK accessibility toolkit	
ii gir1.2-atspi-2.0 Service Provider (GObject introspection)	2.18.3-4ubuntu1	amd64	Assistive Technology	
ii gir1.2-dbusmenu-glib-0.4:amd64 typelib file for libdbusmenu-glib4	16.04.1+16.04.20160927-0ubuntu1	amd64		
ii gir1.2-dee-1.0 introspection data for the Dee library	1.2.7+15.04.20150304-0ubuntu2	amd64	GObject	
ii gir1.2-freedesktop:amd64 data for some FreeDesktop components	1.46.0-3ubuntu1	amd64	Introspection	
ii gir1.2-gdata-0.0:amd64 data for the GData webservice library	0.17.4-1	amd64	GObject introspection	
ii gir1.2-gdkpixbuf-2.0:amd64 library - GObject-Introspection	2.32.2-1ubuntu1.2	amd64	GDK Pixbuf	
ii gir1.2-glib-2.0:amd64 for GLib, GObject, Gio and GModule	1.46.0-3ubuntu1	amd64	Introspection data	
ii gir1.2-gnomekeyring-1.0 services library - introspection data	3.12.0-1build1	amd64	GNOME keyring	
ii gir1.2-goa-1.0:amd64 for GNOME Online Accounts	3.18.3-1ubuntu2	amd64	Introspection data	
ii gir1.2-gst-plugins-base-1.0 amd64	1.8.2-1ubuntu0.2			
	GObject introspection data for the GStreamer Plugins Base library			
ii gir1.2-gstreamer-1.0 introspection data for the GStreamer library	1.8.2-1~ubuntu1	amd64	GObject	
ii gir1.2-gtk-2.0 interface library -- gir bindings	2.24.30-1ubuntu1	amd64	GTK+ graphical user	
ii gir1.2-gtk-3.0:amd64 user interface library -- gir bindings	3.18.9-1ubuntu3.1	amd64	GTK+ graphical	
ii gir1.2-gtksource-3.0:amd64 GTK+ syntax highlighting widget	3.18.2-1	amd64	gir files for the	
ii gir1.2-gudev-1.0:amd64 introspection data	1:230-2	amd64	libgudev-1.0	
ii gir1.2-ibus-1.0:amd64 1.5.11-1ubuntu2	amd64		Intelligent Input Bus - introspection data	
ii gir1.2-javascriptcoregtk-4.0:amd64 engine library from WebKitGTK+ - GObject introspection data	2.14.3-0ubuntu0.16.04.1	amd64	JavaScript	
ii gir1.2-json-1.0:amd64 manipulation library (introspection data)	1.1.2-0ubuntu1	amd64	GLib JSON	
ii gir1.2-notify-0.7 notifications to a notification daemon (Introspection files)	0.7.6-2svn1	amd64	sends desktop	
ii gir1.2-packagekitglib-1.0 introspection data for the PackageKit GLib library	0.8.17-4ubuntu6~gcc5.4ubuntu1.1	amd64	GObject	
ii gir1.2-pango-1.0:amd64 and rendering of internationalized text - gir bindings	1.38.1-1	amd64	Layout	
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-webkit-2.4.0: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 giommodules for GLib				
ii glib-networking:i386	2.48.2-1~ubuntu16.04.1	i386	network-related	
giommodules				
for GLib				
ii glib-networking-common	2.48.2-1~ubuntu16.04.1	all	network-related	
giommodules for GLib - data files				
ii glib-networking-services	2.48.2-1~ubuntu16.04.1	amd64	network-related	
giommodules 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 configure disk drives and media	3.18.3.1-1ubuntu1	amd64	manage and	
ii gnome-font-viewer GNOME	3.16.2-1ubuntu1	amd64	font viewer for	
ii gnome-keyring services (daemon and tools)	3.18.3-0ubuntu2	amd64	GNOME keyring	
ii gnome-mahjongg game for GNOME	1:3.18.0-1	amd64	classic Eastern tile	
ii gnome-menus implementation of the freedesktop menu specification	3.13.3-6ubuntu3.1	amd64	GNOME	
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 management tool for the GNOME desktop	3.18.0-1ubuntu1	amd64	power	
ii gnome-screensaver saver and locker	3.6.1-7ubuntu4	amd64	GNOME screen	
ii gnome-screenshot application for GNOME	3.18.0-1ubuntu2	amd64	screenshot	
ii gnome-session-bin Session Manager - Minimal runtime	3.18.1.2-1ubuntu1.16.04.2	amd64	GNOME	
ii gnome-session-canberra amd64	0.30-2.1ubuntu1	GNOME session log in and log out sound events		
ii gnome-session-common Session Manager - common files	3.18.1.2-1ubuntu1.16.04.2	all	GNOME	
ii gnome-settings-daemon-schemas daemon schemas	3.18.2-0ubuntu3.1	all	gnome-settings-	
ii gnome-software Software Center for GNOME	3.20.1+git20161013.0.d77d6cf-0ubuntu2~xenial1	amd64		
ii gnome-software-common Software Center for GNOME (common files)	3.20.1+git20161013.0.d77d6cf-0ubuntu2~xenial1	all		
ii gnome-sudoku for GNOME	1:3.18.4-0ubuntu2	amd64	Sudoku puzzle game	
ii gnome-system-log GNOME	3.9.90-4	amd64	system log viewer for	
ii gnome-system-monitor system resource monitor for GNOME	3.18.2-1ubuntu1	amd64	Process viewer and	
ii gnome-terminal emulator application	3.18.3-1ubuntu1	amd64	GNOME terminal	
ii gnome-terminal-data GNOME terminal emulator	3.18.3-1ubuntu1	all	Data files for the	
ii gnome-user-guide	3.18.1-1	all	GNOME user's guide	
ii gnome-user-share sharing via WebDAV or ObexFTP	3.14.2-2ubuntu4	amd64	User level public file	
ii gnome-video-effects GStreamer effects	0.4.1-3ubuntu1	all	Collection of	

ii gnupg replacement	1.4.20-1ubuntu3.1	amd64	GNU privacy guard - a free PGP
ii gnupg-agent cryptographic agent	2.1.11-6ubuntu2	amd64	GNU privacy guard -
ii gnupg2 free PGP replacement (new v2.x)	2.1.11-6ubuntu2	amd64	GNU privacy guard - a
ii google-chrome-stable from Google	56.0.2924.76-1	amd64	The web browser
ii google-talkplugin	5.41.3.0-1	amd64	Google Talk Plugin
ii gpgv signature verification tool	1.4.20-1ubuntu3.1	amd64	GNU privacy guard -
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 discovering and browsing media - Base Plugins	0.2.17-0ubuntu2	amd64	Framework for
ii groff-base system (base system components)	1.22.3-7	amd64	GNU troff text-formatting
ii grub-common Bootloader (common files)	2.02~beta2-36ubuntu3.7	amd64	GRand Unified
ii grub-efi-amd64 Bootloader, version 2 (EFI-AMD64 version)	2.02~beta2-36ubuntu3.7	amd64	GRand Unified
ii grub-efi-amd64-bin	2.02~beta2-36ubuntu3.7	amd64	GRand Unified Bootloader, version 2 (EFI-AMD64 binaries)
ii grub-efi-amd64-signed Unified Bootloader, version 2 (EFI-AMD64 version, signed)	1.66.7+2.02~beta2-36ubuntu3.7	amd64	GRand
ii grub2-common Bootloader (common files for version 2)	2.02~beta2-36ubuntu3.7	amd64	GRand Unified
ii gsettings-desktop-schemas wide schemas	3.18.1-1ubuntu1	all	GSettings desktop-
ii gsettings-ubuntu-schemas desktop-wide schemas for Ubuntu	0.0.5+16.04.20160307-0ubuntu1	all	GSettings
ii gsfonts Ghostscript interpreter(s)	1:8.11+urwcyr1.0.7~pre44-4.2ubuntu1	all	Fonts for the
ii gsfonts-x11	0.24	all	Make Ghostscript fonts available to X11
ii gstreamer1.0-alsa:amd64 for ALSA	1.8.2-1ubuntu0.2	amd64	GStreamer plugin
ii gstreamer1.0-clutter-3.0 GStreamer 1.0	3.0.18-1	amd64	Clutter PPlugin for
ii gstreamer1.0-fluendo-mp3:amd64 decoder GStreamer 1.0 plugin	0.10.32.debian-1	amd64	Fluendo mp3
ii gstreamer1.0-libav:amd64 GStreamer	1.8.2-1~ubuntu1	amd64	libav plugin for
ii gstreamer1.0-plugins-bad:amd64 plugins from the "bad" set	1.8.2-1ubuntu0.2	amd64	GStreamer

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 and shutting down the system	2.88dsf-59.3ubuntu2	amd64	scripts for initializing
ii inputattach attached peripherals to the input subsystem	1:1.4.9-1	amd64	utility to connect serial-
ii insserv using LSB init.d script dependency information	1.14.0-5ubuntu3	amd64	boot sequence organizer
ii install-info documentation in info format	6.1.0.dfsg.1-5	amd64	Manage installed
ii intel-gpu-tools Intel graphics driver	1.14-1	amd64	tools for debugging the
ii intel-microcode firmware for Intel CPUs	3.20151106.1	amd64	Processor microcode
ii intltool-debian all Help i18n of RFC822 compliant config files	0.35.0+20060710.4		
ii ippusbxd support	1.23-1	amd64	Daemon for IPP USB printer
ii iproute2 control tools	4.3.0-1ubuntu3	amd64	networking and traffic
ii iptables packet filtering and NAT	1.6.0-2ubuntu3	amd64	administration tools for
ii iputils-arping echo requests to an ARP address	3:20121221-5ubuntu2	amd64	Tool to send ICMP
ii iputils-ping reachability of network hosts	3:20121221-5ubuntu2	amd64	Tools to test the
ii iputils-tracepath amd64 Tools to trace the network path to a remote host	3:20121221-5ubuntu2		
ii irqbalance interrupts for SMP systems	1.1.0-2ubuntu1	amd64	Daemon to balance
ii isc-dhcp-client automatically obtaining an IP address	4.3.3-5ubuntu12.6	amd64	DHCP client for
ii isc-dhcp-common by all of the isc-dhcp packages	4.3.3-5ubuntu12.6	amd64	common files used
ii iso-codes currency, script codes and their translations	3.65-1	all	ISO language, territory,
ii iucode-tool microcode tool	1.5.1-1ubuntu0.1	amd64	Intel processor
ii iw amd64 tool for configuring Linux wireless devices	3.17-1		
ii java-common runtimes	0.56ubuntu2	all	Base package for Java
ii javahelp2	2.0.05.ds1-8	all	Java based help system
ii javascript-common library packages	11	all	Base support for JavaScript
ii jayatana ayatana project	2.7-0ubuntu5	amd64	Java Native Library for
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
more				
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 Indicators	12.10.1+15.04.20141110-0ubuntu1	amd64	Application
ii libappstream-glib8:amd64 to access AppStream services	0.5.13-1ubuntu4	amd64	GNOME library
ii libappstream3:amd64 Library to access AppStream services	0.9.4-1ubuntu2	amd64	
ii libapt-inst2.0:amd64 runtime library	1.2.18	amd64	deb package format
ii libapt-pkg-perl pkg	0.1.29build7	amd64	Perl interface to libapt-
ii libapt-pkg5.0:amd64 runtime library	1.2.18	amd64	package management
ii libarchive-zip-perl of ZIP archives	1.56-2	all	Perl module for manipulation
ii libarchive13:amd64 archive and compression library (shared library)	3.1.2-11ubuntu0.16.04.2	amd64	Multi-format
ii libart-2.0-2:amd64 for 2D graphics - runtime files	2.3.21-2	amd64	Library of functions
ii libasan1:amd64 fast memory error detector	4.9.3-13ubuntu2	amd64	AddressSanitizer -- a
ii libasan2:amd64 - a fast memory error detector	5.4.0-6ubuntu1~16.04.4	amd64	AddressSanitizer -
ii libasm4-java framework	5.0.4-1	all	Java bytecode manipulation
ii libasn1-8-heimdal:amd64 Kerberos - ASN.1 library	1.7~git20150920+dfsg-4ubuntu1	amd64	Heimdal
ii libasound2:amd64 ALSA applications	1.1.0-0ubuntu1	amd64	shared library for
ii libasound2:i386 ALSA applications	1.1.0-0ubuntu1	i386	shared library for
ii libasound2-data profiles for ALSA drivers	1.1.0-0ubuntu1	all	Configuration files and
ii libasound2-plugins:amd64 additional plugins	1.1.0-0ubuntu1	amd64	ALSA library
ii libasound2-plugins:i386 additional plugins	1.1.0-0ubuntu1	i386	ALSA library
ii libaspell15:amd64 spell-checker runtime library	0.60.7~20110707-3build1	amd64	GNU Aspell
ii libaspell15:i386 checker runtime library	0.60.7~20110707-3build1	i386	GNU Aspell spell-
ii libasprintf-dev:amd64 Internationalization library development files	0.19.7-2ubuntu3	amd64	GNU
ii libasprintf0v5:amd64 fprintf and friends in C++	0.19.7-2ubuntu3	amd64	GNU library to use
ii libass5:amd64 subtitles rendering	0.13.1-1	amd64	library for SSA/ASS
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 lib6-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 lib cups2:amd64				
2.1.3-4	amd64	Common UNIX Printing System(tm) - Core library		
ii lib cups2:i386	2.1.3-4	i386	Common UNIX Printing	
System(tm) - Core library				
ii lib cups2-dev:amd64	2.1.3-4	amd64	Common UNIX	
Printing System(tm) - Development files CUPS library				
ii lib cups cgi1:amd64	2.1.3-4	amd64	Common UNIX Printing	
System(tm) - CGI library				
ii lib cups filters1:amd64	1.8.3-2ubuntu3.1	amd64	OpenPrinting CUPS	
Filters - Shared library				
ii lib cups image2:amd64	2.1.3-4	amd64	Common UNIX	
Printing System(tm) - Raster image library				
ii lib cups mime1:amd64				
2.1.3-4	amd64	Common UNIX Printing System(tm) - MIME		
library				
ii lib cups pppdc1:amd64	2.1.3-4	amd64	Common UNIX	
Printing System(tm) - PPD manipulation library				
ii lib curl3:amd64	7.47.0-1ubuntu2.2	amd64	easy-to-use client-	
side URL transfer library (OpenSSL flavour)				
ii lib curl3-gnutls:amd64	7.47.0-1ubuntu2.2	amd64	easy-to-use client-	
side URL transfer library (GnuTLS flavour)				
ii lib cv-dev:amd64	2.4.9.1+dfsg-1.5ubuntu1	amd64	Translation	
package for lib cv-dev				
ii lib cvaux-dev:amd64	2.4.9.1+dfsg-1.5ubuntu1	amd64	Translation	
package for lib cvaux-dev				
ii lib daemon0: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 daemon library for DFU support	0.7.0-0ubuntu4.3	amd64	Firmware update
ii libdigest-hmac-perl standard message integrity checks	1.03+dfsg-1	all	module for creating
ii libdjvulibre-text libdjvulibre	3.5.27.1-5	all	Linguistic support files for
ii libdjvulibre21:amd64 the DjVu image format	3.5.27.1-5	amd64	Runtime support for
ii libdmapsharing-3.0-2:amd64 server library - runtime	2.9.34-1	amd64	DMAP client and
ii libdns-export162 Shared Library	1:9.10.3.dfsg.P4-8ubuntu1.4	amd64	Exported DNS
ii libdns162:amd64 Library used by BIND	1:9.10.3.dfsg.P4-8ubuntu1.4	amd64	DNS Shared
ii libdom4j-java framework for Java	1.6.1+dfsg.3-2ubuntu1	all	flexible XML
ii libdotconf0:amd64 library - runtime files	1.3-0.2	amd64	Configuration file parser
ii libdouble-conversion1v5:amd64 convert IEEE floats to and from strings	2.0.1-3ubuntu2	amd64	routines to
ii libdoxia-core-java 1.1.4-3ubuntu1	all	all	Doxia content generation framework (core)
ii libdpkg-perl 1.18.4ubuntu1.1	all	all	Dpkg perl modules
ii libdrm-amdgpu1:amd64 interface to amdgpu-specific kernel DRM services -- runtime	2.4.67-1ubuntu0.16.04.2	amd64	Userspace
ii libdrm-amdgpu1:i386 interface to amdgpu-specific kernel DRM services -- runtime	2.4.67-1ubuntu0.16.04.2	i386	Userspace
ii libdrm-dev:amd64 interface to kernel DRM services -- development files	2.4.67-1ubuntu0.16.04.2	amd64	Userspace
ii libdrm-intel1:amd64 interface to intel-specific kernel DRM services -- runtime	2.4.67-1ubuntu0.16.04.2	amd64	Userspace
ii libdrm-intel1:i386 to intel-specific kernel DRM services -- runtime	2.4.67-1ubuntu0.16.04.2	i386	Userspace interface
ii libdrm-nouveau2:amd64 interface to nouveau-specific kernel DRM services -- runtime	2.4.67-1ubuntu0.16.04.2	amd64	Userspace
ii libdrm-nouveau2:i386 interface to nouveau-specific kernel DRM services -- runtime	2.4.67-1ubuntu0.16.04.2	i386	Userspace
ii libdrm-radeon1:amd64 interface to radeon-specific kernel DRM services -- runtime	2.4.67-1ubuntu0.16.04.2	amd64	Userspace
ii libdrm-radeon1:i386 interface to radeon-specific kernel DRM services -- runtime	2.4.67-1ubuntu0.16.04.2	i386	Userspace
ii libdrm2:amd64 interface to kernel DRM services -- runtime	2.4.67-1ubuntu0.16.04.2	amd64	Userspace
ii libdrm2:i386 to kernel DRM services -- runtime	2.4.67-1ubuntu0.16.04.2	i386	Userspace interface

ii libdv4:amd64 format digital video (runtime lib)	1.0.0-7	amd64	software library for DV
ii libdv4:i386 format digital video (runtime lib)	1.0.0-7	i386	software library for DV
ii libdvnav4:amd64	5.0.3-1	amd64	DVD navigation library
ii libdvread4:amd64 library for reading DVDs	5.0.3-1	amd64	
ii libdw1:amd64 access to the DWARF debug information	0.165-3ubuntu1	amd64	library that provides
ii libe-book-0.1-1:amd64 and converting various e-book formats	0.1.2-2ubuntu1	amd64	library for reading
ii libeasymock-java Mock Objects for given interfaces	3.3.1+ds-3	all	Java library to generate
ii libebackend-1.2-10:amd64 for evolution data servers	3.18.5-1ubuntu1	amd64	Utility library
ii libebook-1.2-16:amd64 evolution address books	3.18.5-1ubuntu1	amd64	Client library for
ii libebook-contacts-1.2-2:amd64 amd64 Client library for evolution contacts books	3.18.5-1ubuntu1		
ii libecal-1.2-19:amd64 evolution calendars	3.18.5-1ubuntu1	amd64	Client library for
ii libeclipse-aether-java artifact repositories	1.0.2-1	all	Library to handle Java
ii libecryptfs1 filesystem (library)	1:1.1-0ubuntu1	amd64	ecryptfs cryptographic
ii libedata-book-1.2-25:amd64 for evolution address books	3.18.5-1ubuntu1	amd64	Backend library
ii libedata-cal-1.2-28:amd64 for evolution calendars	3.18.5-1ubuntu1	amd64	Backend library
ii libedataserver-1.2-21:amd64 amd64 Utility library for evolution data servers	3.18.5-1ubuntu1		
ii libedataserverui-1.2-1:amd64 for evolution data servers	3.18.5-1ubuntu1	amd64	Utility library
ii libedit2:amd64 history libraries	3.1-20150325-1ubuntu2	amd64	BSD editline and
ii libedit2:i386 history libraries	3.1-20150325-1ubuntu2	i386	BSD editline and
ii libefivar0:amd64 variables	0.23-2	amd64	Library to manage UEFI
ii libegl1-mesa:amd64 implementation of the EGL API -- runtime	11.2.0-1ubuntu2.2	amd64	free
ii libegl1-mesa:i386 free implementation of the EGL API -- runtime	11.2.0-1ubuntu2.2	i386	
ii libelf1:amd64 write ELF files	0.165-3ubuntu1	amd64	library to read and
ii libelf1:i386 ELF files	0.165-3ubuntu1	i386	library to read and write
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/convertng 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 libfwupd0: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 libgcrpt11-dev	1.5.4-3+really1.6.5-2ubuntu0.2	all	transitional
libgcrpt11-dev package			
ii libgcrpt20:amd64	1.6.5-2ubuntu0.2		
amd64	LGPL Crypto library - runtime library		
ii libgcrpt20:i386	1.6.5-2ubuntu0.2	i386	LGPL Crypto library -
runtime library			
ii libgcrpt20-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 libgddata-common	0.17.4-1	all	Library for accessing
GData webservices - common data files			
ii libgddata22: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 library (GLU)	9.0.0-2.1	amd64	Mesa OpenGL utility
ii libgme0:amd64 for video game music files - shared library	0.6.0-3ubuntu0.16.04.1	amd64	Playback library
ii libgmime-2.6-0:amd64 parser and creator library - runtime	2.6.20-1	amd64	MIME message
ii libgmp-dev:amd64 arithmetic library developers tools	2:6.1.0+dfsg-2	amd64	Multiprecision
ii libgmp10:amd64 arithmetic library	2:6.1.0+dfsg-2	amd64	Multiprecision
ii libgmp10:i386 arithmetic library	2:6.1.0+dfsg-2	i386	Multiprecision
ii libgmpxx4ldbl:amd64 arithmetic library (C++ bindings)	2:6.1.0+dfsg-2	amd64	Multiprecision
ii libgnome-bluetooth13:amd64 Bluetooth tools - support library	3.18.2-1ubuntu2	amd64	GNOME
ii libgnome-desktop-3-12:amd64 for loading .desktop files - runtime files	3.18.2-1ubuntu1	amd64	Utility library
ii libgnome-keyring-common services library - data files	3.12.0-1build1	all	GNOME keyring
ii libgnome-keyring0:amd64 services library	3.12.0-1build1	amd64	GNOME keyring
ii libgnome-menu-3-0:amd64 implementation of the freedesktop menu specification	3.13.3-6ubuntu3.1	amd64	GNOME
ii libgnomekbd-common manage keyboard configuration - common files	3.6.0-1ubuntu2	all	GNOME library to
ii libgnomekbd8:amd64 manage keyboard configuration - shared library	3.6.0-1ubuntu2	amd64	GNOME library to
ii libgnutls-openssl27:amd64 library - OpenSSL wrapper	3.4.10-4ubuntu1.2	amd64	GNU TLS
ii libgnutls30:amd64 main runtime library	3.4.10-4ubuntu1.2	amd64	GNU TLS library -
ii libgnutls30:i386 main runtime library	3.4.10-4ubuntu1.2	i386	GNU TLS library -
ii libgoa-1.0-0b:amd64 amd64 library for GNOME Online Accounts	3.18.3-1ubuntu2		
ii libgoa-1.0-common Online Accounts - common files	3.18.3-1ubuntu2	all	library for GNOME
ii libgom-1.0-0:amd64 GObjects to SQLite	0.3.1-1	amd64	Object mapper from
ii libgom-1.0-common independent files	0.3.1-1	all	libgom architecture-
ii libgomp1:amd64 (GOMP) support library	5.4.0-6ubuntu1~16.04.4	amd64	GCC OpenMP
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 libraries from the "base" set	1.8.2-1ubuntu0.2	amd64	GStreamer
ii libgstreamer-plugins-base1.0-0:i386 libraries from the "base" set	1.8.2-1ubuntu0.2	i386	GStreamer
ii libgstreamer-plugins-good1.0-0:amd64 development files for libraries from the "good" set	1.8.2-1ubuntu0.3	amd64	GStreamer
ii libgstreamer-plugins-good1.0-0:i386 development files for libraries from the "good" set	1.8.2-1ubuntu0.3	i386	GStreamer
ii libgstreamer1.0-0:amd64 libraries and elements	1.8.2-1~ubuntu1	amd64	Core GStreamer
ii libgstreamer1.0-0:i386 libraries and elements	1.8.2-1~ubuntu1	i386	Core GStreamer
ii libgtk-3-0:amd64 GTK+ graphical user interface library	3.18.9-1ubuntu3.1	amd64	
ii libgtk-3-bin graphical user interface library	3.18.9-1ubuntu3.1	amd64	programs for the GTK+
ii libgtk-3-common GTK+ graphical user interface library	3.18.9-1ubuntu3.1	all	common files for the
ii libgtk2.0-0:amd64 user interface library	2.24.30-1ubuntu1	amd64	GTK+ graphical
ii libgtk2.0-0:i386 interface library	2.24.30-1ubuntu1	i386	GTK+ graphical user
ii libgtk2.0-bin GTK+ graphical user interface library	2.24.30-1ubuntu1	amd64	programs for the
ii libgtk2.0-common all common files for the GTK+ graphical user interface library	2.24.30-1ubuntu1		
ii libgtk2.0-dev the GTK+ library	2.24.30-1ubuntu1	amd64	development files for
ii libgtkglext1:amd64 Extension to GTK+ (shared libraries)	1.2.0-3.2fakesync1ubuntu1	amd64	OpenGL
ii libgtkmm-3.0-1v5:amd64 GTK+ (shared libraries)	3.18.0-1	amd64	C++ wrappers for
ii libgtksourceview-3.0-1:amd64 the GTK+ syntax highlighting widget	3.18.2-1	amd64	shared libraries for
ii libgtksourceview-3.0-common GTK+ syntax highlighting widget	3.18.2-1	all	common files for the
ii libgtkspell3-3-0:amd64 amd64 spell-checking addon for GTK+'s TextView widget	3.0.7-2		
ii libgtop-2.0-10:amd64 monitoring library (shared)	2.32.0-1	amd64	gtop system
ii libgtop2-common library (common)	2.32.0-1	all	gtop system monitoring
ii libguava-java libraries for Java	19.0-1	all	Suite of Google common
ii libgucharmap-2-90-7:amd64 browser widget library (shared library)	1:3.18.2-1ubuntu1	amd64	Unicode
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
webservice -- core libraries			
ii libjfreechart-java			
1.0.13-8	all	Chart library for Java	
ii libjfreechart-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-custommarshallers4.0-cil	4.2.1.102+dfsg2-7ubuntu4	all	Mono	
CustomMarshallers 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 library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono I18N.CJK
ii libmono-i18n-mideast4.0-cil I18N.MidEast library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono
ii libmono-i18n-other4.0-cil I18N.Other library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono
ii libmono-i18n-rare4.0-cil library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono I18N.Rare
ii libmono-i18n-west4.0-cil I18N.West library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono
ii libmono-i18n4.0-all all Mono I18N libraries metapackage (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4		
ii libmono-i18n4.0-cil library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono I18N base
ii libmono-ldap4.0-cil library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono LDAP
ii libmono-management4.0-cil Management library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono
ii libmono-messaging-rabbitmq4.0-cil Messaging RabbitMQ library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono
ii libmono-messaging4.0-cil Messaging library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono
ii libmono-microsoft-build-engine4.0-cil all Mono Microsoft.Build.Engine library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4		
ii libmono-microsoft-build-framework4.0-cil Microsoft.Build.Framework library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono
ii libmono-microsoft-build-tasks-v4.0-4.0-cil Microsoft.Build.Tasks.v4.0 library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono
ii libmono-microsoft-build-utilities-v4.0-4.0-cil Microsoft.Build.Utilities.v4.0 library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono
ii libmono-microsoft-build4.0-cil Microsoft.Build library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono
ii libmono-microsoft-csharp4.0-cil Microsoft.CSharp library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono
ii libmono-microsoft-visualc10.0-cil all Mono Microsoft.VisualStudio library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4		
ii libmono-microsoft-web-infrastructure1.0-cil Microsoft.Web.Infrastructure library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono
ii libmono-oracle4.0-cil library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono Oracle
ii libmono-parallel4.0-cil library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono.Parallel
ii libmono-peapi4.0a-cil library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono PEAPI
ii libmono-posix4.0-cil library (for CLI 4.0)	4.2.1.102+dfsg2-7ubuntu4	all	Mono.Posix

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.Compression.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-numeric4.0-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-durableinstantancing4.0-cil	4.2.1.102+dfsg2-7ubuntu4	all	Mono	System.Runtime.DurableInstantancing 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 library (Boehm GC)	4.2.1.102+dfsg2-7ubuntu4	amd64	Mono JIT
ii libmonoboehm-2.0-dev (Boehm GC)	4.2.1.102+dfsg2-7ubuntu4	amd64	Mono JIT library - Development files
ii libmount1:amd64 library	2.27.1-6ubuntu3.2	amd64	device mounting
ii libmp3lame0:amd64 library	3.99.5+repack1-9build1	amd64	MP3 encoding
ii libmpc3:amd64 complex floating-point library	1.0.3-1	amd64	multiple precision
ii libmpdec2:amd64 floating point arithmetic (runtime library)	2.4.2-1	amd64	library for decimal
ii libmpeg2-4:amd64 video decoder library	0.5.1-7	amd64	MPEG1 and MPEG2
ii libmpeg2encpp-2.1-0 toolset (library)	1:2.1.0+debian-4	amd64	MJPEG capture/editing/replay and MPEG encoding
ii libmpfr4:amd64 floating-point computation	3.1.4-1	amd64	multiple precision
ii libmpg123-0:amd64 audio decoder (shared library)	1.22.4-1	amd64	MPEG layer 1/2/3
ii libmplex2-2.1-0 capture/editing/replay and MPEG encoding toolset (library)	1:2.1.0+debian-4	amd64	MJPEG
ii libmpx0:amd64 protection extensions (runtime)	5.4.0-6ubuntu1~16.04.4	amd64	Intel memory
ii libmspub-0.1-1:amd64 the mspub file structure	0.1.2-2ubuntu1	amd64	library for parsing
ii libmtdev1:amd64 Translation Library - shared library	1.1.5-1ubuntu2	amd64	Multitouch Protocol
ii libmtp-common Protocol (MTP) common files	1.1.10-2ubuntu1	all	Media Transfer
ii libmtp-runtime Protocol (MTP) runtime tools	1.1.10-2ubuntu1	amd64	Media Transfer
ii libmtp9:amd64 Protocol (MTP) library	1.1.10-2ubuntu1	amd64	Media Transfer
ii libmwaw-0.3-3:amd64 some old Mac text documents	0.3.7-1ubuntu2	amd64	import library for
ii libmysqlclient20:i386 client library	5.7.17-0ubuntu0.16.04.1	i386	MySQL database
ii libmythes-1.2-0:amd64 library	2:1.2.4-1ubuntu3	amd64	simple thesaurus
ii libnatpmp1:amd64 compliant implementation of NAT-PMP	20110808-4	amd64	portable and fully
ii libnautilus-extension1a:amd64 nautilus components - runtime version	1:3.18.4.is.3.14.3-0ubuntu5	amd64	libraries for

ii libnb-org-openide-util-java NetBeans Platform	8.1+dfsg1-2	all	Utility classes from the
ii libnb-org-openide-util-lookup-java classes from the NetBeans Platform	8.1+dfsg1-2	all	Utility lookup
ii libncurses5:amd64 for terminal handling	6.0+20160213-1ubuntu1	amd64	shared libraries
ii libncurses5:i386 terminal handling	6.0+20160213-1ubuntu1	i386	shared libraries for
ii libncurses5-dev:amd64 libraries for ncurses	6.0+20160213-1ubuntu1	amd64	developer's
ii libncursesw5:amd64 libraries for terminal handling (wide character support)	6.0+20160213-1ubuntu1	amd64	shared
ii libncursesw5:i386 for terminal handling (wide character support)	6.0+20160213-1ubuntu1	i386	shared libraries
ii libndp0:amd64 Neighbor Discovery Protocol	1.4-2ubuntu0.16.04.1	amd64	Library for
ii libneon27-gnutls:amd64 WebDAV client library (GnuTLS enabled)	0.30.1-3build1	amd64	HTTP and
ii libnet-dbus-perl DBus bindings	1.1.0-3build1	amd64	Perl extension for the
ii libnet-dns-perl from a Perl script	0.81-2build1	amd64	Perform DNS queries
ii libnet-domain-tld-perl Top-level Domains (TLDs)	1.73-1	all	list of currently available
ii libnet-http-perl HTTP connection client	6.09-1	all	module providing low-level
ii libnet-ip-perl IPv4/IPv6 addresses	1.26-1	all	Perl extension for manipulating
ii libnet-libidn-perl bindings for GNU Libidn	0.12.ds-2build2	amd64	Perl
ii libnet-smtp-ssl-perl support to Net::SMTP	1.03-1	all	Perl module providing SSL
ii libnet-ssleay-perl Sockets Layer (SSL)	1.72-1build1	amd64	Perl module for Secure
ii libnetfilter-contrack3:amd64 contrack library	1.0.5-1	amd64	Netfilter netlink-
ii libnetpbm10 tools shared libraries	2:10.0-15.3	amd64	Graphics conversion
ii libnettle6:amd64 cryptographic library (symmetric and one-way cryptos)	3.2-1ubuntu0.16.04.1	amd64	low level
ii libnettle6:i386 level cryptographic library (symmetric and one-way cryptos)	3.2-1ubuntu0.16.04.1	i386	low
ii libnewt0.52:amd64 Windowing Toolkit - text mode windowing with slang	0.52.18-1ubuntu2	amd64	Not Erik's
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 libnpt0: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
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 libpcsc-lite1: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 common regular expressions	2016020301-1	all	module with
ii libreoffice-avmedia-backend-gstreamer backend for LibreOffice	1:5.1.4-0ubuntu1	amd64	GStreamer
ii libreoffice-base-core suite -- shared library	1:5.1.4-0ubuntu1	amd64	office productivity
ii libreoffice-calc suite -- spreadsheet	1:5.1.4-0ubuntu1	amd64	office productivity
ii libreoffice-common 1:5.1.4-0ubuntu1	all	office productivity suite -- arch-independent files	
ii libreoffice-core suite -- arch-dependent files	1:5.1.4-0ubuntu1	amd64	office productivity
ii libreoffice-draw suite -- drawing	1:5.1.4-0ubuntu1	amd64	office productivity
ii libreoffice-gnome suite -- GNOME integration	1:5.1.4-0ubuntu1	amd64	office productivity
ii libreoffice-gtk suite -- GTK+ integration	1:5.1.4-0ubuntu1	amd64	office productivity
ii libreoffice-help-en-gb suite -- English_british help	1:5.1.4-0ubuntu1	all	office productivity
ii libreoffice-help-en-us 1:5.1.4-0ubuntu1	all	office productivity suite -- English_american help	
ii libreoffice-help-it - Italian help	1:5.1.4-0ubuntu1	all	office productivity suite -
ii libreoffice-impress suite -- presentation	1:5.1.4-0ubuntu1	amd64	office productivity
ii libreoffice-l10n-en-gb suite -- English_british language package	1:5.1.4-0ubuntu1	all	office productivity
ii libreoffice-l10n-en-za suite -- English_southafrican language package	1:5.1.4-0ubuntu1	all	office productivity
ii libreoffice-l10n-it - Italian language package	1:5.1.4-0ubuntu1	all	office productivity suite -
ii libreoffice-math suite -- equation editor	1:5.1.4-0ubuntu1	amd64	office productivity
ii libreoffice-ogltrans extension for slide transitions using OpenGL	1:5.1.4-0ubuntu1	amd64	LibreOffice Impress
ii libreoffice-pdfimport component for LibreOffice	1:5.1.4-0ubuntu1	amd64	PDF Import
ii libreoffice-style-breeze suite -- Breeze symbol style	1:5.1.4-0ubuntu1	all	office productivity
ii libreoffice-style-galaxy suite -- Galaxy (Default) symbol style	1:5.1.4-0ubuntu1	all	office productivity
ii libreoffice-writer office productivity suite -- word processor	1:5.1.4-0ubuntu1	amd64	
ii librest-0.7-0:amd64 library	0.7.93-1	amd64	REST service access
ii libvenge-0.0-0:amd64	0.0.4-4ubuntu1	amd64	Base Library for

writing document interface filters				
ii librhino-java Engine	1.7R4-3	all	Libraries for rhino Java Script	
ii librhythmbox-core9:amd64 for the rhythmbox music player	3.3-1ubuntu7		amd64	support library
ii libroken18-heimdal:amd64 Kerberos - roken support library	1.7~git20150920+dfsg-4ubuntu1		amd64	Heimdal
ii librsvg2-2:amd64 renderer library for SVG files (runtime)	2.40.13-3		amd64	SAX-based
ii librsvg2-common:amd64 renderer library for SVG files (extra runtime)	2.40.13-3		amd64	SAX-based
ii librsync1:amd64 algorithm library	0.9.7-10		amd64	rsync remote-delta
ii librtmp1:amd64 RTMP streams (shared library)	2.4+20151223.gitfa8646d-1build1		amd64	toolkit for
ii libruby2.3:amd64 run Ruby 2.3	2.3.1-2~16.04		amd64	Libraries necessary to
ii libsamplerate0:amd64 conversion library	0.1.8-8		amd64	Audio sample rate
ii libsamplerate0:i386 rate conversion library	0.1.8-8	i386		Audio sample
ii libsane:amd64 scanners	1.0.26-git20160712-xenial0		amd64	API library for
ii libsane-common scanners -- documentation and support files	1.0.26-git20160712-xenial0		amd64	API library for
ii libsane-hpaio:amd64 for multi-function peripherals	3.16.3+repack0-1		amd64	HP SANE backend
ii libsasldb2:amd64 authentication abstraction library	2.1.26.dfsg1-14build1		amd64	Cyrus SASL -
ii libsasldb2-modules:amd64 pluggable authentication modules	2.1.26.dfsg1-14build1		amd64	Cyrus SASL -
ii libsasldb2-modules-db:amd64 SASL - pluggable authentication modules (DB)	2.1.26.dfsg1-14build1		amd64	Cyrus
ii libsbcl1:amd64 - runtime	1.3-1		amd64	Sub Band CODEC library
ii libschroedinger-1.0-0:amd64 encoding/decoding of Dirac video streams	1.0.11-2.1build1		amd64	library for
ii libsd1.2debian:amd64 DirectMedia Layer	1.2.15+dfsg1-3		amd64	Simple
ii libseccomp2:amd64 to Linux seccomp filter	2.2.3-3ubuntu3		amd64	high level interface
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 shared libraries	2.4-3build2		amd64	SELinux runtime
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		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 creating user interfaces fast and easy	20090826-2	all	Java layout manager for
ii libtag1v5:amd64 library	1.9.1-2.4ubuntu1	amd64	audio meta-data
ii libtag1v5:i386 i386 audio meta-data library	1.9.1-2.4ubuntu1		
ii libtag1v5-vanilla:amd64 library - vanilla flavour	1.9.1-2.4ubuntu1	amd64	audio meta-data
ii libtag1v5-vanilla:i386 library - vanilla flavour	1.9.1-2.4ubuntu1	i386	audio meta-data
ii libtalloc2:amd64 memory allocator	2.1.5-2	amd64	hierarchical pool based
ii libtasn1-6:amd64 structures (runtime)	4.7-3ubuntu0.16.04.1	amd64	Manage ASN.1
ii libtasn1-6:i386 structures (runtime)	4.7-3ubuntu0.16.04.1	i386	Manage ASN.1
ii libtbb2:amd64 library for C++ - runtime files	4.4~20151115-0ubuntu3	amd64	parallelism
ii libtcl8.6:amd64 Language) v8.6 - run-time library files	8.6.5+dfsg-2	amd64	Tcl (the Tool Command
ii libtdb1:amd64 library	1.3.8-2	amd64	Trivial Database - shared
ii libtelepathy-glib0:amd64 - GLib library	0.24.1-1.1	amd64	Telepathy framework
ii libtevent0:amd64 loop library - shared library	0.9.28-0ubuntu0.16.04.1	amd64	talloc-based event
ii libtexlua52:amd64 5.2, modified for use with LuaTeX	2015.20160222.37495-1	amd64	TeX Live: Lua
ii libtexluajit2:amd64 LuaJIT, modified for use with LuaJITTeX	2015.20160222.37495-1	amd64	TeX Live:
ii libtext-charwidth-perl characters on the terminal	0.04-7build5	amd64	get display widths of
ii libtext-iconv-perl character sets in Perl	1.7-5build4	amd64	converts between
ii libtext-levenshtein-perl Levenshtein edit distance	0.13-1	all	implementation of the
ii libtext-wrapi18n-perl of Text::Wrap	0.06-7.1	all	internationalized substitute
ii libthai-data support library	0.1.24-2	all	Data files for Thai language
ii libthai0:amd64 Thai language support library	0.1.24-2	amd64	
ii libthai0:i386	0.1.24-2	i386	Thai language support library
ii libtheora0:amd64 Compression Codec	1.1.1+dfsg.1-8	amd64	Theora Video

ii libtheora0:i386 Compression Codec	1.1.1+dfsg.1-8	i386	Theora Video
ii libtie-ixhash-perl associative arrays	1.23-2	all	Perl module to order
ii libtiff5:amd64 (TIFF) library	4.0.6-1	amd64	Tag Image File Format
ii libtiff5:i386 library	4.0.6-1	i386	Tag Image File Format (TIFF)
ii libtiff5-dev:amd64 development files	4.0.6-1	amd64	Tag Image File Format library (TIFF),
ii libtiffxx5:amd64 (TIFF) library -- C++ interface	4.0.6-1	amd64	Tag Image File Format
ii libtimedate-perl manipulate date/time information	2.3000-2	all	collection of modules to
ii libtimezonemap-data widget - data files	0.4.5	all	GTK+3 timezone map
ii libtimezonemap1:amd64 widget	0.4.5	amd64	GTK+3 timezone map
ii libtinfo-dev:amd64 library for the low-level terminfo library	6.0+20160213-1ubuntu1	amd64	developer's
ii libtinfo5:amd64 terminfo library for terminal handling	6.0+20160213-1ubuntu1	amd64	shared low-level
ii libtinfo5:i386 terminfo library for terminal handling	6.0+20160213-1ubuntu1	i386	shared low-level
ii libtk8.6:amd64 v8.6 - run-time files	8.6.5-1	amd64	Tk toolkit for Tcl and X11
ii libtotem-plparser-common Parser library - common files	3.10.6-1ubuntu1	all	Totem Playlist
ii libtotem-plparser18:amd64 Parser library - runtime files	3.10.6-1ubuntu1	amd64	Totem Playlist
ii libtotem0:amd64 for the Totem media player	3.18.1-1ubuntu4	amd64	Main library
ii libtracker-sparql-1.0-0:amd64 database, indexer and search tool - library	1.6.2-0ubuntu1.1	amd64	metadata
ii libtsan0:amd64 a Valgrind-based detector of data races (runtime)	5.4.0-6ubuntu1~16.04.4	amd64	ThreadSanitizer --
ii libtwolame0:amd64 encoding library	0.3.13-1.2	amd64	MPEG Audio Layer 2
ii libtxc-dxtn-s2tc0:amd64 compression library for Mesa	0~git20131104-1.1	amd64	Texture
ii libtxc-dxtn-s2tc0:i386 compression library for Mesa	0~git20131104-1.1	i386	Texture
ii libubsan0:amd64 UBSan -- undefined behaviour sanitizer (runtime)	5.4.0-6ubuntu1~16.04.4	amd64	
ii libubuntugestures5:amd64 gestures library for Ubuntu UI Toolkit	1.3.1918+16.04.20160404-0ubuntu1	amd64	Ubuntu

ii libubuntutoolkit5:amd64 toolkit common library for Ubuntu UI Toolkit	1.3.1918+16.04.20160404-0ubuntu1	amd64	Ubuntu
ii libudev1:amd64 library	229-4ubuntu16	amd64	libudev shared
ii libudev1:i386	229-4ubuntu16	i386	libudev shared library
ii libudisks2-0:amd64 library to access udisks2	2.1.7-1ubuntu1	amd64	GObject based
ii libunistring0:amd64 library for C	0.9.3-5.2ubuntu1	amd64	Unicode string
ii libunity-action-qt1:amd64 Action Qt API	1.1.0+14.04.20140304-0ubuntu2~gcc5.1	amd64	Unity
ii libunity-control-center1 configure the GNOME desktop	15.04.0+16.04.20160705-0ubuntu1	amd64	utilities to
ii libunity-core-6.0-9:amd64 library for the Unity interface	7.4.0+16.04.20160906-0ubuntu1	amd64	core
ii libunity-gtk2-parser0:amd64 GtkMenuShell to GMenuModel parser	0.0.0+15.04.20150118-0ubuntu2	amd64	
ii libunity-gtk3-parser0:amd64 GtkMenuShell to GMenuModel parser	0.0.0+15.04.20150118-0ubuntu2	amd64	
ii libunity-misc4 functions for Unity - shared library	4.0.5+14.04.20140115-0ubuntu1	amd64	Miscellaneous
ii libunity-protocol-private0:amd64 library	7.1.4+16.04.20160701-0ubuntu1	amd64	binding to get places into the launcher - private
ii libunity-scopes-json-def-desktop get places into the launcher - desktop def file	7.1.4+16.04.20160701-0ubuntu1	all	binding to
ii libunity-settings-daemon1:amd64 Helper library for accessing settings	15.04.1+16.04.20160701-0ubuntu1	amd64	
ii libunity-webapps0:amd64 Apps integration with the Unity desktop	2.5.0~+16.04.20160201-0ubuntu1	amd64	Web
ii libunity9:amd64 places into the launcher - shared library	7.1.4+16.04.20160701-0ubuntu1	amd64	binding to get
ii libunwind8 call-chain of a program - runtime	1.1-4.1	amd64	library to determine the
ii libupower-glib3:amd64 power management - shared library	0.99.4-2ubuntu0.3	amd64	abstraction for
ii liburi-perl URI strings	1.71-1	all	module to manipulate and access
ii liburl-dispatcher1:amd64 sending requests to the url dispatcher	0.1+16.04.20151110-0ubuntu2	amd64	library for
ii libusb-0.1-4:amd64 programming library	2:0.1.12-28	amd64	userspace USB
ii libusb-1.0-0:amd64 programming library	2:1.0.20-1	amd64	userspace USB
ii libusbmuxd4:amd64 daemon for iPhone and iPod	1.0.10-2ubuntu0.1	amd64	USB multiplexor

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)
0.18-1			
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
1.9.0-1			
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
1.11.1-1ubuntu1			
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 library (development files)	1:1.1.14-1	amd64	X cursor management	
ii libxcursor1:amd64 library	1:1.1.14-1	amd64	X cursor management	
ii libxcursor1:i386 library	1:1.1.14-1	i386	X cursor management	
ii libxdamage-dev:amd64 extension library (development headers)	1:1.1.4-2	amd64	X11 damaged region	
ii libxdamage1:amd64 extension library	1:1.1.4-2	amd64	X11 damaged region	
ii libxdamage1:i386 extension library	1:1.1.4-2	i386	X11 damaged region	
ii libxdmcp-dev:amd64 library (development headers)	1:1.1.2-1.1	amd64	X11 authorisation	
ii libxdmcp6:amd64 library	1:1.1.2-1.1	amd64	X11 Display Manager Control Protocol	
ii libxdmcp6:i386 Control Protocol library	1:1.1.2-1.1	i386	X11 Display Manager	
ii libxerces2-java Java with DOM level 3 support	2.11.0-7	all	Validating XML parser for	
ii libxext-dev:amd64 extensions library (development headers)	2:1.3.3-1	amd64	X11 miscellaneous	
ii libxext6:amd64 extension library	2:1.3.3-1	amd64	X11 miscellaneous	
ii libxext6:i386 library	2:1.3.3-1	i386	X11 miscellaneous extension	
ii libxfixes-dev:amd64 'fixes' extension library (development headers)	1:5.0.1-2	amd64	X11 miscellaneous	
ii libxfixes3:amd64 'fixes' extension library	1:5.0.1-2	amd64	X11 miscellaneous	
ii libxfixes3:i386 extension library	1:5.0.1-2	i386	X11 miscellaneous 'fixes'	
ii libxfont1:amd64 library	1:1.5.1-1	amd64	X11 font rasterisation	
ii libxft-dev library for X (development files)	2.3.2-1	amd64	FreeType-based font drawing	
ii libxft2:amd64 font drawing library for X	2.3.2-1	amd64	FreeType-based	
ii libxi-dev (development headers)	2:1.7.6-1	amd64	X11 Input extension library	
ii libxi6:amd64 library	2:1.7.6-1	amd64	X11 Input extension	
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	
library - runtime 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	
extension library				
ii libxss1:amd64	1:1.2.2-1	amd64	X11 Screen Saver	
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	
library				
ii libxtables11:amd64	1.6.0-2ubuntu3	amd64	netfilter xtables	
extension 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		Open source MPEG-4 video codec (library)	
amd64				
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 libzip-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 performance debugger	1:3.8-2ubuntu4	amd64	Next generation, high-
ii llvm-3.8 toolchain technologies	1:3.8-2ubuntu4	amd64	Modular compiler and
ii llvm-3.8-dev toolchain technologies, libraries and headers	1:3.8-2ubuntu4	amd64	Modular compiler and
ii llvm-3.8-runtime toolchain technologies, IR interpreter	1:3.8-2ubuntu4	amd64	Modular compiler and
ii lmodern OpenType fonts based on Computer Modern	2.004.5-1	all	scalable PostScript and
ii locales Language (locale) data [support]	2.23-0ubuntu5	all	GNU C Library: National
ii login	1:4.2-3.1ubuntu5	amd64	system login tools
ii logrotate	3.8.7-2ubuntu2	amd64	Log rotation utility
ii lp-solve linear programming problems	5.5.0.13-7build2	amd64	Solve (mixed integer)
ii lsb-base script functionality	9.20160110ubuntu0.2	all	Linux Standard Base init
ii lsb-release utility	9.20160110ubuntu0.2	all	Linux Standard Base version reporting
ii lshw hardware configuration	02.17-1.1ubuntu3.2	amd64	information about
ii lsof	4.89+dfsg-0.1	amd64	Utility to list open files
ii ltrace calls in dynamically linked programs	0.7.3-5.1ubuntu4	amd64	Tracks runtime library
ii m4	1.4.17-5	amd64	macro processing language
ii make compilation	4.1-6	amd64	utility for directing
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 GNU/Linux system	4.04-2	all	Manual pages about using a
ii manpages-dev GNU/Linux for development	4.04-2	all	Manual pages about using
ii mathpiper System	0.81f+svn4469+dfsg3-3	all	Java Computer Algebra
ii maven management and comprehension tool	3.3.9-3	all	Java software project
ii mawk	1.3.3-17ubuntu2	amd64	a pattern scanning and text processing language
ii media-player-info files	22-2	all	Media player identification
ii memtest86+ memory tester	5.01-3ubuntu2	amd64	thorough real-mode
ii mesa-common-dev:amd64	11.2.0-1ubuntu2.2	amd64	Developer

documentation for Mesa				
ii mesa-udpau-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 to ensure multiarch compatibility	2.23-0ubuntu5	amd64	Transitional package
ii mysql-common database common files, e.g. /etc/mysql/my.cnf	5.7.17-0ubuntu0.16.04.1	all	MySQL
ii mythes-en-au for OpenOffice.org	2.1-5.4	all	Australian English Thesaurus
ii mythes-en-us Thesaurus for LibreOffice	1:5.1.0-1ubuntu2.2	all	English (USA)
ii mythes-it OpenOffice.org 2	2.0.7.gh.deb1-4.1	all	Italian Thesaurus for
ii nano inspired by Pico	2.5.3-2ubuntu1	amd64	small, friendly text editor
ii nautilus graphical shell for GNOME	1:3.18.4.is.3.14.3-0ubuntu5	amd64	file manager and
ii nautilus-data data files for nautilus	1:3.18.4.is.3.14.3-0ubuntu5	all	
ii nautilus-sendto and Pidgin into the Nautilus file manager	3.8.2-1ubuntu1	amd64	integrates Evolution
ii nautilus-share share folder using Samba	0.7.3-2ubuntu1	amd64	Nautilus extension to
ii ncurses-base definitions	6.0+20160213-1ubuntu1	all	basic terminal type
ii ncurses-bin programs and man pages	6.0+20160213-1ubuntu1	amd64	terminal-related
ii net-tools toolkit	1.60-26ubuntu1	amd64	NET-3 networking
ii netbase ii	5.3	all	Basic TCP/IP networking system
netcat-openbsd knife	1.105-7ubuntu1	amd64	TCP/IP swiss army
ii netpbm between image formats	2:10.0-15.3	amd64	Graphics conversion tools
ii network-manager management framework (daemon and userspace tools)	1.2.2-0ubuntu0.16.04.3	amd64	network
ii network-manager-gnome management framework (GNOME frontend)	1.2.0-0ubuntu0.16.04.4	amd64	network
ii network-manager-pptp management framework (PPTP plugin core)	1.1.93-1ubuntu1	amd64	network
ii network-manager-pptp-gnome management framework (PPTP plugin GNOME GUI)	1.1.93-1ubuntu1	amd64	network
ii node-abbrev set of strings - Node.js module	1.0.5-2	all	Get unique abbreviations for a
ii node-ansi for Node.js	0.3.0-2	all	Advanced ANSI formatting tool
ii node-ansi-color-table ansi output - Node.js module	1.0.0-1	all	Color and format tables for

ii node-archy module for Node.js	0.0.2-1	all	Pretty-print nested hierarchies
ii node-async common patterns for asynchronous Javascript	0.8.0-1	all	higher-order functions and
ii node-block-stream all Stream of fixed-size blocks, with zero-padding when necessary	0.0.7-1		
ii node-combined-stream another - module for Node.js	0.0.5-1	all	Append streams one after
ii node-cookie-jar clients - module for Node.js	0.3.1-1	all	Cookie handling for HTTP
ii node-delayed-stream later handling - module for Node.js	0.0.5-1	all	Buffer stream events for
ii node-forever-agent keep-alive requests - module for Node.js	0.5.1-1	all	HTTP agent supporting
ii node-form-data streams module for Node.js	0.1.0-1	all	Create multipart/form-data
ii node-fstream tools for Node.js	0.1.24-1	all	Advanced filesystem streaming
ii node-fstream-ignore configurable by .ignore module for Node.js	0.0.6-2	all	Directory reader
ii node-github-url-from-git url to an http url - Node.js module	1.1.1-1	all	Convert github git or gist
ii node-glob	4.0.5-1	all	glob functionality for Node.js
ii node-graceful-fs improving the Node.js fs module	3.0.2-1	all	drop-in replacement
ii node-gyp addon build tool for Node.js	3.0.3-2ubuntu1	all	Native
ii node-inherits Node.js environment	2.0.1-3	all	Exposes inherits function from
ii node-ini for Node.js	1.1.0-1	all	ini format parser and serializer
ii node-json-stringify-safe circular references module for Node.js	5.0.0-1	all	JSON.stringify with
ii node-lockfile module for Node.js	0.4.1-1	all	Asynchronous file lock
ii node-lru-cache object for Node.js	2.3.1-1	all	least-recently-used cache
ii node-mime library for mime-type mapping for Node.js	1.3.4-1	all	
ii node-minimatch into RegExp objects for Node.js	1.0.0-1	all	Convert glob expressions
ii node-mkdirp - Node.js module	0.5.0-1	all	Recursively create directories
ii node-mute-stream can be muted module for Node.js	0.0.4-1	all	Pass-through stream that
ii node-node-uuid RFC4122 UUIDs - Node module	1.4.0-1	all	simple, fast generation of

ii node-nopt for Node.js	3.0.1-1	all	Command-line option parser
ii node-normalize-package-data	0.2.2-1		
all Normalizes package metadata - Node.js module			
ii node-npmlog and colored output for Node.js	0.0.4-1	all	Logger with custom levels
ii node-once this module for Node.js	1.1.1-1	all	Run a function only once with
ii node-osenv module for Node.js	0.1.0-1	all	Environment settings lookup
ii node-qs Node.js	2.2.4-1	all	Parse, stringify query strings for
ii node-read module for Node.js	1.0.5-1	all	Read user input from stdin
ii node-read-package-json	1.2.4-1	all	Read package.json for npm module for Node.js
ii node-request client module for Node.js	2.26.1-1	all	simplified HTTP request
ii node-retry operations module for Node.js	0.6.0-1	all	Retry strategies for failed
ii node-rimraf module for Node.js	2.2.8-1	all	Deep deletion (like rm -rf)
ii node-semver Node.js	2.1.0-2	all	Semantic Versioning for
ii node-sha hashes - module for Node.js	1.2.3-1	all	Check and get file or stream
ii node-sigmund	1.0.0-1	all	Quick and dirty signatures for Objects module for Node.js
ii node-slide flow control module for Node.js	1.1.4-1	all	Simple chain and asyncMap
ii node-tar archives module for Node.js	1.0.3-2	all	read and write portable tar
ii node-tunnel-agent module for Node.js	0.3.1-1	all	HTTP proxy tunneling agent
ii node-underscore programming helper library - NodeJS	1.7.0~dfsg-1ubuntu1	all	JavaScript's functional
ii node-which 'which' module for Node.js	1.0.5-2	all	Cross-platform
ii nodejs javascript	4.2.6~dfsg-1ubuntu4.1	amd64	evented I/O for V8
ii nodejs-dev javascript (development files)	4.2.6~dfsg-1ubuntu4.1	amd64	evented I/O for V8
ii nodejs-legacy javascript (legacy symlink)	4.2.6~dfsg-1ubuntu4.1	all	evented I/O for V8
ii notify-osd displays passive pop-up notifications	0.9.35+16.04.20160415-0ubuntu1	amd64	daemon that
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 database (supported version)	9.6+178.pgdg16.04+1	all	object-relational SQL
ii postgresql-9.5 SQL database, version 9.5 server	9.5.5-1.pgdg16.04+1	amd64	object-relational
ii postgresql-9.6 SQL database, version 9.6 server	9.6.1-2.pgdg16.04+1	amd64	object-relational
ii postgresql-client-9.5 for PostgreSQL 9.5	9.5.5-1.pgdg16.04+1	amd64	front-end programs
ii postgresql-client-9.6 for PostgreSQL 9.6	9.6.1-2.pgdg16.04+1	amd64	front-end programs
ii postgresql-client-common multiple PostgreSQL client versions	178.pgdg16.04+1	all	manager for
ii postgresql-common database-cluster manager	178.pgdg16.04+1	all	PostgreSQL
ii postgresql-contrib for PostgreSQL (supported version)	9.6+178.pgdg16.04+1	all	additional facilities
ii postgresql-contrib-9.5 facilities for PostgreSQL	9.5.5-1.pgdg16.04+1	amd64	additional
ii postgresql-contrib-9.6 facilities for PostgreSQL	9.6.1-2.pgdg16.04+1	amd64	additional
ii powermgmt-base configs for power management	1.31+nmu1	all	Common utils and
ii ppp Protocol (PPP) - daemon	2.4.7-1+2ubuntu1	amd64	Point-to-Point
ii pppconfig configuring ppp	2.3.22	all	Text menu based utility for
ii pppoeconf connections	1.21ubuntu1	all	configures PPPoE/ADSL
ii pptp-linux Protocol (PPTP) Client	1.8.0-1	amd64	Point-to-Point Tunneling
ii preview-latex-style from LaTeX documents as graphics	11.88-1.1ubuntu1	all	extraction of elements
ii printer-driver-brlaser (some) Brother laser printers	3-5~ubuntu1	amd64	printer driver for
ii printer-driver-c2esp driver for Kodak ESP AiO color inkjet Series	27-2	amd64	printer
ii printer-driver-foo2zjs for ZjStream-based printers	20151024dfsg0-1ubuntu1	amd64	printer driver
ii printer-driver-foo2zjs-common for ZjStream-based printers - common files	20151024dfsg0-1ubuntu1	all	printer driver
ii printer-driver-gutenprint CUPS	5.2.11-1	amd64	printer drivers for
ii printer-driver-hpcups and Imaging - CUPS Raster driver (hpcups)	3.16.3+repack0-1	amd64	HP Linux Printing
ii printer-driver-min12xxw KonicaMinolta PagePro 1[234]xxW	0.0.9-9	amd64	printer driver for
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 modules used by PlainBox providers	0.22-1	all	collection of Python
ii python3-commandnotfound for command-not-found.	0.3ubuntu16.04.2	all	Python 3 bindings
ii python3-cryptography exposing cryptographic recipes and primitives (Python 3)	1.2.3-1ubuntu0.1	amd64	Python library
ii python3-cups CUPS	1.9.73-0ubuntu2	amd64	Python3 bindings for
ii python3-cupshelpers CUPS	1.5.7+20160212-0ubuntu2	all	Python modules for printer configuration with
ii python3-dbus messaging system (Python 3 interface)	1.2.0-3	amd64	simple interprocess
ii python3-debian work with Debian-related data formats	0.1.27ubuntu2	all	Python 3 modules to
ii python3-defer asynchronous programming (Python 3)	1.0.6-2build1	all	Small framework for
ii python3-distupgrade	1:16.04.20	all	manage release upgrades
ii python3-feedparser Python 3	5.1.3-3build1	all	Universal Feed Parser for
ii python3-gdbm:amd64	3.5.1-1	amd64	GNU dbm database support for Python 3.x
ii python3-gi gobject-introspection libraries	3.20.0-0ubuntu1	amd64	Python 3 bindings for
ii python3-gi-cairo bindings for the GObject library	3.20.0-0ubuntu1	amd64	Python 3 Cairo
ii python3-guacamole command line applications (Python 3)	0.9.2-1	all	framework for creating
ii python3-html5lib based on the WHATWG HTML5 specification (Python 3)	0.999-4	all	HTML parser/tokenizer
ii python3-httplib2 HTTP client library written for Python3	0.9.1+dfsg-1	all	comprehensive
ii python3-idna 5891) handling (Python 3)	2.0-3	all	Python IDNA2008 (RFC
ii python3-jinja2 stand-alone template engine	2.8-1	all	small but fast and easy to use
ii python3-jwt JSON Web Token	1.3.0-1	all	Python 3 implementation of
ii python3-louis	2.6.4-2	all	Python bindings for liblouis
ii python3-lxml libxml2 and libxslt libraries	3.5.0-1build1	amd64	pythonic binding for the
ii python3-mako all fast and lightweight templating for the Python 3 platform	1.0.3+ds1-1ubuntu1		
ii python3-markupsafe HTML/XHTML/XML string library for Python 3	0.23-2build2	amd64	
ii python3-minimal Python language (default python3 version)	3.5.1-3	amd64	minimal subset of the
ii python3-oauthlib	1.0.3-1	all	generic, spec-compliant

implementation of OAuth for Python3				
ii python3-padme class for Python 3	1.1.1-2	all	mostly transparent proxy	
ii python3-pexpect automating interactive applications	4.0.1-1	all	Python 3 module for	
ii python3-pil:amd64 3.1.2-0ubuntu1	amd64	Python Imaging Library (Python3)		
ii python3-pkg-resources Resource Access using pkg_resources	20.7.0-1	all	Package Discovery and	
ii python3-plainbox hardware testing (python3 module)	0.25-1	all	toolkit for software and	
ii python3-problem-report handle problem reports	2.20.1-0ubuntu2.5	all	Python 3 library to	
ii python3-ptyprocess pseudo terminal from Python 3	0.5-1	all	Run a subprocess in a	
ii python3-pyasn1 (Python 3 module)	0.1.9-1	all	ASN.1 library for Python	
ii python3-pyatspi 2.18.0+dfsg-3	all	Assistive Technology Service Provider		
Interface - Python3 bindings				
ii python3-pycurl libcurl (Python 3)	7.43.0-1ubuntu1	amd64	Python bindings to	
ii python3-pyparsing module, Python3 package	2.0.3+dfsg1-1ubuntu0.1	all	Python parsing	
ii python3-renderpm:amd64 render interface	3.3.0-1	amd64	python low level	
ii python3-reportlab PDF documents using Python3	3.3.0-1	all	ReportLab library to create	
ii python3-reportlab-accel:amd64 accelerator for the ReportLab Toolkit	3.3.0-1	amd64	C coded extension	
ii python3-requests library for Python3, built for human beings	2.9.1-3	all	elegant and simple HTTP	
ii python3-six library (Python 3 interface)	1.10.0-3	all	Python 2 and 3 compatibility	
ii python3-software-properties that you install software from	0.96.20.5	all	manage the repositories	
ii python3-speechd Speech Dispatcher	0.8.3-1ubuntu3	all	Python interface to	
ii python3-systemd systemd	231-2build1	amd64	Python 3 bindings for	
ii python3-uno Python-UNO bridge	1:5.1.4-0ubuntu1	amd64		
ii python3-update-manager update-manager	1:16.04.5	all	python 3.x module for	
ii python3-urllib3 thread-safe connection pooling for Python3	1.13.1-2ubuntu0.16.04.1	all	HTTP library with	
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-ls: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 Control Application)	11.0.57095	i386	TeamViewer (Remote
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 OpenType fonts based on URW Fonts	20150923-1	all	scalable PostScript and
ii texlive selection of the TeX Live packages	2015.20160320-1	all	TeX Live: A decent
ii texlive-base programs and files	2015.20160320-1	all	TeX Live: Essential
ii texlive-binaries Live	2015.20160222.37495-1	amd64	Binaries for TeX
ii texlive-extra-utils programs	2015.20160320-1	all	TeX Live: TeX auxiliary
ii texlive-font-utils	2015.20160320-1	all	TeX Live: Graphics and font utilities
ii texlive-fonts-recommended Recommended fonts	2015.20160320-1	all	TeX Live:
ii texlive-fonts-recommended-doc Documentation files for texlive-fonts-recommended	2015.20160320-1	all	TeX Live:
ii texlive-generic-recommended Generic recommended packages	2015.20160320-1	all	TeX Live:
ii texlive-lang-english English	2015.20160223-1	all	TeX Live: US and UK
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 Documentation files for texlive-latex-base	2015.20160320-1	all	TeX Live:
ii texlive-latex-extra additional packages	2015.20160320-1	all	TeX Live: LaTeX
ii texlive-latex-extra-doc Documentation files for texlive-latex-extra	2015.20160320-1	all	TeX Live:
ii texlive-latex-recommended recommended packages	2015.20160320-1	all	TeX Live: LaTeX
ii texlive-latex-recommended-doc Documentation files for texlive-latex-recommended	2015.20160320-1	all	TeX Live:
ii texlive-pictures 2015.20160320-1	all	TeX Live: Graphics, pictures, diagrams	
ii texlive-pictures-doc Documentation files for texlive-pictures	2015.20160320-1	all	TeX Live:
ii texlive-pstricks	2015.20160320-1	all	TeX Live: PSTricks
ii texlive-pstricks-doc Documentation files for texlive-pstricks	2015.20160320-1	all	TeX Live:
ii texlive-science computer sciences	2015.20160320-1	all	TeX Live: Natural and

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-blit2.5	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 input driver metapackage	1:7.7+1ubuntu3	amd64	X.Org X server --
ii xserver-xorg-input-evdev evdev input driver	1:2.10.1-1ubuntu2	amd64	X.Org X server --
ii xserver-xorg-input-synaptics TouchPad driver for X.Org server	1.8.2-1ubuntu3	amd64	Synaptics
ii xserver-xorg-input-vmmouse X server -- VMMouse input driver to use with VMWare	1:13.1.0-1ubuntu2	amd64	X.Org
ii xserver-xorg-input-wacom -- Wacom input driver	1:0.32.0-0ubuntu3	amd64	X.Org X server
ii xserver-xorg-video-all output driver metapackage	1:7.7+1ubuntu3	amd64	X.Org X server --
ii xserver-xorg-video-amdgpu AMDGPU display driver	1.1.0-1	amd64	X.Org X server --
ii xserver-xorg-video-ati AMD/ATI display driver wrapper	1:7.7.0-1	amd64	X.Org X server --
ii xserver-xorg-video-fbdev fbdev display driver	1:0.4.4-1build5	amd64	X.Org X server --
ii xserver-xorg-video-intel X.Org X server -- Intel i8xx, i9xx display driver	2:2.99.917+git20160325-1ubuntu1.2	amd64	
ii xserver-xorg-video-nouveau - Nouveau display driver	1:1.0.12-1build2	amd64	X.Org X server -
ii xserver-xorg-video-qxl QXL display driver	0.1.4-3ubuntu3	amd64	X.Org X server --
ii xserver-xorg-video-radeon AMD/ATI Radeon display driver	1:7.7.0-1	amd64	X.Org X server --
ii xserver-xorg-video-vesa VESA display driver	1:2.3.4-1build2	amd64	X.Org X server --
ii xserver-xorg-video-vmware -- VMware display driver	1:13.1.0-2ubuntu3	amd64	X.Org X server
ii xterm emulator	322-1ubuntu1	amd64	X terminal
ii xtrans-dev (development files)	1.3.5-1	all	X transport library
ii xul-ext-ubufox Firefox	3.2-0ubuntu1	all	Ubuntu modifications for
ii xz-utils compression utilities	5.1.1alpha+20120614-2ubuntu2	amd64	XZ-format
ii yelp	3.18.1-1ubuntu4	amd64	Help browser for GNOME
ii yelp-xsl help browser	3.18.1-1	all	XSL stylesheets for the yelp
ii zeitgeist-core framework - engine	0.9.16-0ubuntu4	amd64	event logging
ii zeitgeist-datahub 0.9.16-0ubuntu4	amd64		event logging framework - passive logging daemon
ii zenity boxes from shell scripts	3.18.1.1-1ubuntu2	amd64	Display graphical dialog
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):

* /295b9e165630428509cb78428a3228df-a33984527a42fe4c3a6bea86d6b9a4e91b9b88e7-
zip/295b9e165630428509cb78428a3228df-a33984527a42fe4c3a6bea86d6b9a4e91b9b88e7/packages.list

1.216 gpgv 2.2.19-3ubuntu2.2

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```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.217 libgcc-s1 10.5.0-1ubuntu1~20.04

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

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1.218 sysvinit-utils 2.96-2.1ubuntu1

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```
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```

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1.220 libcom-err 1.45.5-2ubuntu1.1

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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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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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```
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```

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```
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```

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repository from the development branch, please contact me
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package are flexible, if you give me enough lead time.

Theodore Ts'o

23-June-2007

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```
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part of
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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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

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1.221 logsave 1.45.5-2ubuntu1.1

1.221.1 Available under license :

This package was added to the e2fsprogs debian source package by
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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

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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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```

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```
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```

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Theodore Ts'o

23-June-2007

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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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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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[applies only to hppa*-*-pro* targets]

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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-dev	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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Written by Tobias Burnus <burnus@net-b.de>

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libquadmath/math:

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coshq.c, erfq.c, jnq.c, lgammaq.c, powq.c, roundq.c:

Changes for 128-bit __float128 are

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ldexpq.c:

* Conversion to long double by Ulrich Drepper,

* Cygnus Support, drepper@cygnus.com.

cosq_kernel.c, expq.c, sincos_table.c, sincosq.c, sincosq_kernel.c,
sinq_kernel.c, truncq.c:

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isinfq.c:

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log10q.c:

Cephes Math Library Release 2.2: January, 1991

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Adapted for glibc November, 2001

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D:
gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:

- d/phobos/*

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Version 3, 29 June 2007

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1.223 libncurses 6.2-0ubuntu2.1

1.223.1 Available under license :

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile:txtmode fc=72
-- \$Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp \$
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This package is used for testing builds of ncurses.

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1.224 liblzma 5.2.4-1ubuntu1.1

1.224.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

Comment:

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From: Lasse Collin <lasse.collin@tukaani.org>

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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Files: INSTALL NEWS PACKAGERS

windows/README-Windows.txt

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Files: src/liblzma/check/crc32_table_?e.h

src/liblzma/check/crc64_table_?e.h

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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

Autoconf 2.52g

License: config-h

configure.ac:

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```

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```
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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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under certain conditions; type `show c' for details.
```

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=====

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1.225 lsb-base 11.1.0ubuntu2

1.225.1 Available under license :

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Upstream-Name: LSB implementation package

Files: *

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Files: init-functions.d/50-ubuntu-logging

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Files: init-functions

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1.226 libext2fs2 1.45.5-2ubuntu1.1

1.226.1 Available under license :

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

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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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```

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

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on 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
- + Copyright (C) Paul 'Rusty' Russell 2000

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Gadi Oxman, August 1995

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

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```
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```

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

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```
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`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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Theodore Ts'o
23-June-2007

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Version 2, June 1991

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

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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:

```
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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.

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```
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`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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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

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1.227 libdebconfclient0 0.251ubuntu1

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

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Julian Seward, jseward@bzip.org
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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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

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1.229 libss 1.45.5-2ubuntu1.1

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1.230 libglibdata 2.64.6-1~ubuntu20.04.6

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This package was debianized by Akira TAGOH <tagoh@debian.org> on
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It was downloaded from <<https://download.gnome.org/sources/glib/>>.

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1.232 gorilla 1.5.1

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1.233 xxhash 2.1.2

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1.234 mergo 0.3.12

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import: ../../../../fossene/db/schema/thing.yml

fields:

site: string

author: root

1.235 gopkg.in-inf 0.9.1

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1.236 gofuzz 1.1.0

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1.237 go-autorest 0.11.18

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1.238 protobuf 1.28.1

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1.239 google-uuid 1.3.0

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1.240 goprotobuf 1.5.2

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1.241 structured-merge-diff 4.1.2

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1.242 errors 0.9.1

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1.243 perks 1.0.1

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1.244 jsonpatch 2.2.0

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1.246 github.com/google/uuid 1.3.0

1.246.1 Available under license :

Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

wallclockbuilder

dansouza

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