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### A. HISTORY OF THE SOFTWARE

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

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

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

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

Release from	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes

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From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <dlitz@dlitz.net>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)

Received: (vmmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)

Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])

by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088

for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)

Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk

[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS  
15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;  
Thu, 28 Aug 2008 01:45:02 +0100  
To: crypt@bis.doc.gov,  
enc@nsa.gov,  
web\_site@bis.doc.gov,  
pycrypto@lists.dlitz.net,  
PYTHON-CRYPTO@NIC.SURFNET.NL,  
dlitz@dlitz.net  
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net  
designates 64.5.53.201 as permitted sender) identity=mailfrom;  
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;  
helo=goedel.dlitz.net; mechanism=-all; envelope-from=dlitz@dlitz.net;  
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by  
m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id  
taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100  
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])  
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1  
for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)  
Received: by rivest.dlitz.net (Postfix, from userid 1000)  
id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)  
Received: by rivest.dlitz.net (tmlda-sendmail, from uid 1000);  
Wed, 27 Aug 2008 20:42:54 -0400  
Date: Wed, 27 Aug 2008 20:42:54 -0400  
Cc: post@stamper.itconsult.co.uk  
Subject: PyCrypto TSU NOTIFICATION  
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
X-Delivery-Agent: TMDA/1.1.9 (Jura)  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
X-DNSBL: 0  
Status: O  
Content-Length: 2182  
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

```
#####  
#  
# This is a proof of posting certificate from  
# stamper.itconsult.co.uk certifying that a user  
# claiming to be:-  
# dlitz@dlitz.net  
# requested that this message be sent to:-  
# crypt@bis.doc.gov  
# enc@nsa.gov  
# web_site@bis.doc.gov  
# pycrypto@lists.dlitz.net  
# PYTHON-CRYPTO@NIC.SURFNET.NL  
# dlitz@dlitz.net  
#  
# This certificate was issued at 00:45 (GMT)  
# on Thursday 28 August 2008 with reference 0520978  
#  
# CAUTION: while the message may well be from the sender  
# indicated in the "From:" header, the sender  
# has NOT been authenticated by this service  
#  
# For information about the Stamper service see  
# http://www.itconsult.co.uk/stamper.htm  
#  
#####
```

SUBMISSION TYPE: TSU

SUBMITTED BY: Dwayne C. Litzenberger

SUBMITTED FOR: Dwayne C. Litzenberger

POINT OF CONTACT: Dwayne C. Litzenberger

PHONE and/or FAX: +1-613-693-1296

MANUFACTURER: n/a

PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")

ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- - -

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----

Version: 2.6.3i

Charset: noconv

Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr  
d+q0E7eE8VtnvviUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t  
UNjJ/kv8QLz/eq2fi/HNjyrwnqFnUI0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq  
sxbzCOPjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQlOhJQ6o  
XYhY+HbRjsD741/GSpOt9IIN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/  
W/pqSSiPkwmblhPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==  
=3oIX

-----END PGP SIGNATURE-----

From dlitz@dlitz.net Sun Aug 2 21:48:25 2009

Date: Sun, 2 Aug 2009 21:48:25 -0400

From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

To: Paul Swartz <paulswartz@gmail.com>

Subject: PyCrypto license clarification

Message-ID: <20090803014825.GA1326@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do

not have to make source available or contribute your changes back  
(though that would be nice).

--amk

(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
- Dwayne

--

Dwayne C. Litzemberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <paulswartz@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)

Received: (vmmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... \_spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in



'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159  
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])  
by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066  
for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)  
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3  
for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)  
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;  
d=gmail.com; s=gamma;  
h=domainkey-signature:mime-version:received:in-reply-to:references  
:from:date:message-id:subject:to:content-type  
:content-transfer-encoding;  
bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;  
b=gyTqkRhKIHadFKIZCBWsRbnMNVdQ1PWlJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac  
Vn55qllqTdom4e9zIUUE6MwZo9kqi/Qw0L/SLib0DIQeNqo/eHYqPmuVswltaYwNAyMJ  
Y9++76rPGzqYdALsfvsmwv7Q3/bEmjVTr0tQE=  
DomainKey-Signature: a=rsa-sha1; c=noaws;  
d=gmail.com; s=gamma;  
h=mime-version:in-reply-to:references:from:date:message-id:subject:to  
:content-type:content-transfer-encoding;  
b=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyyig3EfT6Nv6  
Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NwIeEWJnG3xcliRQu/mXPfP8AzPI3CefL  
1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=  
MIME-Version: 1.0  
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,  
03 Aug 2009 09:14:03 -0700 (PDT)  
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>  
References: <20090803014825.GA1326@rivest.dlitz.net>  
From: Paul Swartz <paulswartz@gmail.com>  
Date: Mon, 3 Aug 2009 12:13:43 -0400  
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
Content-Type: text/plain; charset=UTF-8  
Content-Transfer-Encoding: quoted-printable  
Status: RO  
X-Status: A  
Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:  
te:

> Hi Paul,

>

> I am the new maintainer of the Python Cryptography Toolkit, and I am  
> working on a new release at <http://www.pycrypto.org/>.

That's great!



preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzengerber<dlitz@dlitz.net> wrote:

>> Hi Paul,

>>

>> I am the new maintainer of the Python Cryptography Toolkit, and I am

>> working on a new release at <http://www.pycrypto.org/>.

>

>That's great!

>

>> I understand that you have made contributions to PyCrypto, under nickname

>> "z3p" and/or other names. May I, on your behalf, dedicate to the public

>> domain all your contributions to PyCrypto, with the following notice?

>>

>> =====

>> The contents of this file are dedicated to the public domain. To the

>> extent that dedication to the public domain is not available, everyone

>> is granted a worldwide, perpetual, royalty-free, non-exclusive license

>> to exercise all rights associated with the contents of this file for

>> any purpose whatsoever. No rights are reserved.

>> =====

>

>Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--

Dwayne C. Litzengerber <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Sat Feb 28 21:45:09 2009

Date: Sat, 28 Feb 2009 21:45:09 -0500

From: "Dwayne C. Litzengerber" <dlitz@dlitz.net>

To: Barry A Warsaw <barry@python.org>

Subject: PyCrypto license clarification

Message-ID: <20090301024509.GA13195@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,

- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar 2 11:29:39 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <barry@python.org>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B

for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A

for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)

Received: (vmmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230

Received: from mail.wooz.org (216-15-33-230.c3-0.slv-ubr2.lnh-slv.md.static.cable.rcn.com [216.15.33.230])

by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073

for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)

Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])

by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F

for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)

Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>

From: Barry Warsaw <barry@python.org>

To: Dwayne C. Litzenger <dlitz@dlitz.net>

In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>

Content-Type: text/plain; charset=US-ASCII; format=flowed; delp=yes

Content-Transfer-Encoding: quoted-printable

Mime-Version: 1.0 (Apple Message framework v930.3)

Subject: Re: PyCrypto license clarification

Date: Mon, 2 Mar 2009 11:29:34 -0500

References: <20090301024509.GA13195@rivest.dlitz.net>

X-Pgp-Agent: GPGMail d55 (v55, Leopard)

X-Mailer: Apple Mail (2.930.3)

Status: RO

Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=

> working on a new release at <http://www.pycrypto.org/>.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20

> on your behalf, dedicate to the public domain all your contributions =20=

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,

Barry

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk  
evkJnSJQAcVHIZnVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9llet7PaD9VSYgn3ra5  
gElwI2DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjbwDRA3wItOrH7  
SK4w9VBjtfY=3D

=3DQduY

-----END PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <[wiml@hnhh.org](mailto:wiml@hnhh.org)>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenberger" <[dlitz@dlitz.net](mailto:dlitz@dlitz.net)>

Cc: Wim Lewis <[wiml@hnhh.org](mailto:wiml@hnhh.org)>

Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hnhh.org>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On November 23, 2008, you wrote:

>Hi Wim,

>

>I am the new maintainer of the Python Cryptography Toolkit, and I am

>working on a new release at <http://www.pycrypto.org/>.

>

>I understand that you have made contributions to PyCrypto. May I, on

>your behalf, dedicate to the public domain all your contributions to

>PyCrypto, with the following notice?

>

> =====

> The contents of this file are dedicated to the public domain. To the

- > extent that dedication to the public domain is not available, everyone
- > is granted a worldwide, perpetual, royalty-free, non-exclusive license
- > to exercise all rights associated with the contents of this file for
- > any purpose whatsoever. No rights are reserved.

> =====

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128 implementation, which already has a public-domain notice at the top of the file. But I am happy to have that, any any other code of mine that might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B  
FektbDOzkxgc5580MGGeX/MVn8aw+1BHg0YD85gsntlDzkcQtb+BR/xAvJ5zKyA  
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKoBx+/5+t1lJtBcZ  
wrPEa9Oui9s=  
=zSY9

-----END PGP SIGNATURE-----

From dlitz@dlitz.net Sun Nov 23 00:17:22 2008

Date: Sun, 23 Nov 2008 00:17:22 -0500

From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

To: "A. M. Kuchling" <amk@amk.ca>

Subject: PyCrypto license clarification

Message-ID: <20081123051722.GA29253@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: multipart/signed; micalg=pgp-sha1;  
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"

Content-Disposition: inline

X-Primary-Address: dlitz@dlitz.net

X-Homepage: <http://www.dlitz.net/>

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 3461

Lines: 78

--YiEDa0DAkWCtVeE4





=3D=  
 =3D=  
 =3D

Regards,  
- Dwayne

--=20

Dwayne C. Litzenberger &lt;dlitz@dlitz.net&gt;

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCTVeE4

Content-Type: application/pgp-signature; name="signature.asc"

Content-Description: Digital signature

Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEAReCAAYFAkko52IACgkQHbG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ

yloAn33a3ZjkteyJaTbzEqImOEw8JGpf

$$= \text{aBEW}$$

-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeF4--

From amk@amk.ca Sun Nov 23 07:51:59 2008

X-Maildir-Dup-Checked: Yes

Return-Path: &lt;amk@amk.ca&gt;

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id D632D10111

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (vmmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)

Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])

by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105

for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000

Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])

(envelope-sender <amk@amk.ca>  
by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP  
for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000  
Date: Sun, 23 Nov 2008 07:51:34 -0500  
From: "A.M. Kuchling" <amk@amk.ca>  
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
Subject: Re: PyCrypto license clarification  
Message-ID: <20081123125134.GA21239@amk.local>  
Reply-To: amk@amk.ca  
References: <20081123051722.GA29253@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline  
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>  
User-Agent: Mutt/1.5.13 (2006-08-11)  
Status: RO  
Content-Length: 537  
Lines: 15

> People often ask me what license PyCrypto is covered by, if it's  
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.  
> The text in the current LICENSE file (quoted below) is not entirely clear  
> on the point of whether distributing modified versions is allowed. (It  
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable  
> contributions to PyCrypto, with the following notice?

You may.

--amk  
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009  
Date: Sat, 28 Feb 2009 23:24:14 -0500  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
To: Jeethu Rao <jeethurao@gmail.com>  
Subject: PyCrypto license clarification  
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <jeethurao@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)

Received: (vmmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... \_spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249

Received: from rv-out-0708.google.com (unknown [209.85.198.249])

by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7

for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)

Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26

for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

:date:message-id:subject:from:to:content-type;

bh=YWy9U32WCU/ksRqukHwaOZyJQBUs4Yvt5mI20U6mI/g=;

b=oMjI22IIXYiJKge2zNjW3rRiUi9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY  
B5E6VQuGVEyzBbNscyVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas  
L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=

DomainKey-Signature: a=rsa-sha1; c=nofws;

d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:date:message-id:subject:from:to

:content-type;

b=Ym7CStuDEfJKay1AJyWZkZmJA1lnTcwCG6akBHAXLld8ht6PFcmIsffzZG8hJCIVJ8  
vljqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrS24zikHfpSSd5GFogzXaLVvGVH8p  
bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=

MIME-Version: 1.0

Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;

Sun, 08 Mar 2009 14:27:54 -0700 (PDT)

In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>

References: <20090301042414.GA15122@rivest.dlitz.net>

Date: Mon, 9 Mar 2009 02:57:54 +0530

Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>

Subject: Re: PyCrypto license clarification

From: Jeethu Rao <jeethurao@gmail.com>

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054  
Status: RO  
Content-Length: 7668

--000e0cd209d0e5a3d40464a23054  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often,  
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,  
>  
> I am the new maintainer of the Python Cryptography Toolkit, and I am  
> working on a new release at <http://www.pycrypto.org/>.  
>  
> People often ask me what license PyCrypto is covered by, if it's  
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The  
> text in the current LICENSE file (quoted below) is not entirely clear on the  
> point of whether distributing modified versions is allowed. (It says  
> "distribute and use", but not "modify".)  
>  
> =====  
> Distribute and use freely; there are no restrictions on further  
> dissemination and usage except those imposed by the laws of your  
> country of residence. This software is provided "as is" without  
> warranty of fitness for use or suitability for any purpose, express  
> or implied. Use at your own risk or not at all.  
> =====  
>  
> Incorporating the code into commercial products is permitted; you do  
> not have to make source available or contribute your changes back  
> (though that would be nice).  
>  
> --amk (www.amk.ca)  
>  
> For the next PyCrypto release, I would like to take steps to move toward a  
> clearer licensing regime. I am asking as many copyright holders as I can  
> find if I can release PyCrypto under something clearer and more standard.

> Below, I have quoted a public domain dedication that was recommended in  
> \_Intellectual Property and Open Source: A Practical Guide to Protecting  
> Code\_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey  
> Pointer, and Wim Lewis, and they have all approved the following text for  
> their contributions.  
>  
> I understand that you have made contributions to PyCrypto. May I, on your  
> behalf, dedicate to the public domain all your contributions to PyCrypto,  
> with the following notice?  
>  
> =====  
> The contents of this file are dedicated to the public domain. To the  
> extent that dedication to the public domain is not available, everyone  
> is granted a worldwide, perpetual, royalty-free, non-exclusive license  
> to exercise all rights associated with the contents of this file for  
> any purpose whatsoever. No rights are reserved.  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> --  
> Dwayne C. Litzenger <dlitz@dlitz.net>  
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>

--  
Jeethu Rao

--000e0cd209d0e5a3d40464a23054  
Content-Type: text/html; charset=ISO-8859-1  
Content-Transfer-Encoding: quoted-printable

Hi Dwayne,<div>My contribution to pycrypto are very very minimal (The sha256  
module, IIRC).</div><div>I'd be fine with the public domain license for  
or PyCrypto.</div><div><br></div><div>Jeethu Rao</div><div>PS: Apologies for  
the delay in my response.</div>  
<div>I don't really check this email address all that often,</div><div>=  
please direct any further correspondence to <a href="mailto:jeethu@jeethu=  
rao.com">jeethu@jeethurao.com</a><br><div class="gmail\_quote">On=  
Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <span dir="ltr"><=  
<a href="mailto:dlitz@dlitz.net">dlitz@dlitz.net</a></span> wrote:<br>  
<blockquote class="gmail\_quote" style="margin:0 0 0 .8ex;border-left:1px=  
solid;padding-left:1ex;">Hi Jeethu,<br>  
<br>

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.  
<br>

<br>

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").<br>

<br>

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country of residence. This software is provided "as is" without

warranty of fitness for use or suitability for any purpose, express

or implied. Use at your own risk or not at all.<br>

Incorporating the code into commercial products is permitted; you do

not have to make source available or contribute your changes back

(though that would be nice).<br>

<br>

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"Intellectual Property and Open Source: A Practical Guide to Protecting Code",  
by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer,  
and Wim Lewis, and they have all approved the following text for their  
contributions.<br>

<br>

<br>

<br>

<br>

<br>

--amk  
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =  
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0(<http://www.amk.ca>  
"\_blank">www.amk.ca</a>)<br>

<br>

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find if I can release PyCrypto under something clearer and more standard.  
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<br>

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dissemination and usage except those imposed by the laws of your  
country of residence. This software is provided "as is" without

=3D<br>

The contents of this file are dedicated to the public domain. =A0To the<br>

extent that dedication to the public domain is not available, everyone<br>

is granted a worldwide, perpetual, royalty-free, non-exclusive license<br>

to exercise all rights associated with the contents of this file for<br>

any purpose whatsoever. =A0No rights are reserved.<br>

=3D=

=3D=

=3D<br>

<br>

Regards,<br>

- Dwayne<br><font color=3D"#888888">

<br>

-- <br>

Dwayne C. Litzenger <<a href=3D"mailto:dlitz@dlitz.net" target=3D"\_bl=

ank">dlitz@dlitz.net</a>><br>

=A0 =A0 =A0Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A04A24 928C EC1=

3 39C2 5CF7<br>

</font></blockquote></div><br><br clear=3D"all"><br>-- <br>Jeethu Rao<br>

</div></div>

--000e0cd209d0e5a3d40464a23054--

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

#### Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

- (a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or
- (b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or
- (c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified



it.

- (d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=== EOF ===

From dlitz@dlitz.net Mon May 4 22:49:14 2009  
Date: Mon, 4 May 2009 22:49:14 -0400  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
To: Joris Bontje <joris@bontje.nl>  
Subject: PyCrypto license clarification  
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

=====

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=====

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=====

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=====

Regards,  
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May 5 03:08:32 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <joris@bontje.nl>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id 2315B40583  
for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)  
Received: (vmmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;  
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97  
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])  
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C  
for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30 -0600 (CST)  
Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000  
Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])  
(envelope-sender <joris@bontje.nl>)  
by 10.170.1.96 (qmail-ldap-1.03) with SMTP  
for <>; 5 May 2009 07:08:25 -0000  
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)  
id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)  
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl  
[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;  
Tue, 05 May 2009 09:08:25 +0200  
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
Date: Tue, 05 May 2009 09:08:25 +0200  
From: joris@bontje.nl  
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
Subject: Re: PyCrypto license clarification  
References: <20090505024914.GA9219@rivest.dlitz.net>  
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset=ISO-8859-1;  
format="flowed"  
Content-Disposition: inline  
Content-Transfer-Encoding: 7bit  
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)  
Status: RO  
X-Status: A  
Content-Length: 3488

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

=====

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=====

Regards,  
Joris

Citeren "Dwayne C. Litzenger" <dlitz@dlitz.net>:

> Hi Joris,  
>  
> I am the new maintainer of the Python Cryptography Toolkit, and I am  
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> on the point of whether distributing modified versions is allowed. (It  
> says "distribute and use", but not "modify".)  
>  
> =====  
> Distribute and use freely; there are no restrictions on further  
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> country of residence. This software is provided "as is" without  
> warranty of fitness for use or suitability for any purpose, express  
> or implied. Use at your own risk or not at all.  
> =====  
>  
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> to exercise all rights associated with the contents of this file for  
> any purpose whatsoever. No rights are reserved.  
> =====  
>  
> Regards,  
> - Dwayne  
>  
> --  
> Dwayne C. Litzenger <dlitz@dlitz.net>  
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May 5 17:53:47 2009  
Date: Tue, 5 May 2009 17:53:47 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: joris@bontje.nl  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>  
References: <20090505024914.GA9219@rivest.dlitz.net>  
<20090505090825.gsqlips7hg08wwwok@www.webmail.vuurwerk.nl>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
In-Reply-To: <20090505090825.gsqlips7hg08wwwok@www.webmail.vuurwerk.nl>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

> Hi Dwayne,  
>  
> Thanks for taking over the PyCrypto library and putting in the required  
> effort to keep this going.  
> I was very excited to read that it is now one of the installed libraries  
> for Google AppsEngine!  
>  
> You have my full permission to dedicate all my contributions to PyCrypto to  
> the public domain with your suggested notice:  
> =====  
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> extent that dedication to the public domain is not available, everyone  
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> Joris  
>  
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>> --  
>> Dwayne C. Litzenger <dlitz@dlitz.net>  
>> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>  
>  
--  
Dwayne C. Litzenger <dlitz@dlitz.net>  
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45  
From dlitz@dlitz.net Sat Apr 18 09:14:20 2009  
Date: Sat, 18 Apr 2009 09:14:20 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: Mark Moraes <moraes@computer.org>  
Subject: PyCrypto license clarification  
Message-ID: <20090418131419.GA14494@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2635

Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

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```
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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,  
- Dwayne



--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <markmoraes@yahoo.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)

Received: (vmmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198

Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])

by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE

for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)

Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;

bh=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-

Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;

b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZlhlkLQdkQk0qLz5f4g8dT6bOME3s  
EY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB  
2aU=

DomainKey-Signature:a=rsa-sha1; q=dns; c=noaws;

s=s1024; d=yahoo.com;

h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;

b=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCXeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj7  
63caOAl08Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j  
eo=;

Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>

X-YMail-OSG:

FrK8aWMVM1mFJtLpMGBUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY  
4vZSnfTT8wnCkzZNZ\_g6k.XUc3ipo\_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVyp50clsUFS  
Hzf7Zbpa8P1Yoe\_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X  
onq8h\_TmzX9g84Bin9g\_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv\_bj\_Ghxx--

Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT

X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1

Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)

From: M Moraes <markmoraes@yahoo.com>

Reply-To: moraes@computer.org

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Status: RO  
X-Status: A  
Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,  
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>  
> Subject: PyCrypto license clarification  
> To: "Mark Moraes" <moraes@computer.org>  
> Date: Saturday, April 18, 2009, 9:14 AM  
> Hi Mark,  
>  
> I am the new maintainer of the Python Cryptography Toolkit,  
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>     --amk

>

>

>     (www.amk.ca)

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> =====

>

> Regards,

> - Dwayne

>

> -- Dwayne C. Litzenberger <dlitz@dlitz.net>

> Key-signing key - 19E1

> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009

Date: Mon, 20 Apr 2009 20:01:37 -0400

From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

To: moraes@computer.org

Subject: Re: PyCrypto license clarification

Message-ID: <20090421000137.GA29012@rivest.dlitz.net>

References: <551071.34569.qm@web32405.mail.mud.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>

X-Primary-Address: dlitz@dlitz.net

X-Homepage: <http://www.dlitz.net/>

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);

preference=unprotected

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);

preference=signencrypt

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 3677

Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

>

>Hi Dwayne.

>

>Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

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>>
>> -- Dwayne C. Litzenberger <dlitz@dlitz.net>
>> Key-signing key - 19E1
>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>>
>
--

```

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

Date: Mon, 16 Feb 2009 12:58:00 -0800

From: Robey Pointer <robey@lag.net>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)

Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenger wrote:

> For the next PyCrypto release, I would like to take steps to move  
> toward a clearer licensing regime. I am asking as many copyright  
> holders as I can find if I can release PyCrypto under something  
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>

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>

>

> =

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> the

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> everyone

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> license

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> for

> any purpose whatsoever. No rights are reserved.

>

> =

> =====

>

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ  
SH8AoLJgaq1Ili7/ZYDc+/Cd8VO0xLbr  
=Mv6g

-----END PGP SIGNATURE-----

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

~~~~~

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see [LEGAL/copy/LICENSE.orig](#)).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)
2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To



the extent that dedication to the public domain is not available,  
everyone is granted a worldwide, perpetual, royalty-free,  
non-exclusive license to exercise all rights associated with the  
contents of this file for any purpose whatsoever.  
No rights are reserved.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND  
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS  
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN  
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN  
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE  
SOFTWARE.

Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and  
are therefore Copyright (c) 2001, 2002, 2003 Python Software  
Foundation (All Rights Reserved). They are licensed by the PSF  
under the terms of the Python 2.2 license. (See the file  
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## 1.2 zipp 3.4.0 r0

### 1.2.1 Available under license :

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## 1.3 remote-lib-genmc 2.2.0

### 1.3.1 Available under license :

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

```
/*
*-----
* octeon_pci_dmap.c
* Provide APIs for read/write into Cavium Octeon memory by an
* external host
*
* March 2011, Vineet Sahijwani
* Based on octeon-remote-pci.c provided in Cavium SDK
*
* Copyright (c) 2011-2012, 2014, 2016-2017, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1267363789_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon_pci_dmap.c
```

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

license: 'Cavium Commercial & Cisco Proprietary'

Found in path(s):

```
* /opt/cola/permits/1267363789_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/pkg-info.yaml
```

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

```
/*
* This file contains Octeon CN6300 APIs prototype.
*
* March 2011, Nidhi Shah (nidshah@cisco.com)
*
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved.
*
*/
```

Found in path(s):

\* /opt/cola/permits/1267363789\_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon\_remote\_dyno\_api.h

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

/\*

\*-----

\* octeon\_gige.h

\* This file contains prototypes/definitions used by front panel driver

\* for programming the Cavium and MARvell PHY.

\*

\* March 2012, ovld-sw-io-infra-dev@cisco.com

\*

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\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1267363789\_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon\_gige.h

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

# Copyright (c) 2021 by Cisco Systems, Inc.

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include \$( \$(Nx)BUILD\_DIR)/Makefile-crankshaft.binos

Found in path(s):

\* /opt/cola/permits/1267363789\_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/Makefile-aut.binos

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

/\*

\*-----

\* octeon\_ldr\_api.c

\* This file contains the Cisco APIs for LDR of ffp client.

\*

\* It is based on oct-remote-boot.c provided by Cavium.

\* May 2011, Nidhi Shah (nidshah@cisco.com)

\*

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\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1267363789\_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-

genmc/octeon\_ldr\_api.c

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

/\*

\* This file contains Octeon CN6300 APIs prototype.

\*

\* March 2011, Nidhi Shah (nidshah@cisco.com)

\*

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\*

\*/

Found in path(s):

\* /opt/cola/permits/1267363789\_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon\_ldr\_api.h

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

#

# Makefile for Octeon Remote API library

#

# July 2010, Max Lou (mlou@cisco.com)

# March 2011, Nidhi Shah (nidshah@cisco.com)

# Based on drivers/kernel/octSDK/host/remote-lib-mcp/Makefile.binos

#

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#

# NOTE:

# (1) octeon-remote-mips-bin.c : This file has been generated from

# mips-octeon\_debug\_handler.S using following steps:

# (1.1) mips-octeon\_remote\_debug\_handler.o <---

# mips64-octeon-linux-gnu-gcc -W -Wall -o mips-octeon\_remote\_debug\_handler.o -c mips-octeon\_debug\_handler.S

# (1.2) mips-octeon\_remote\_debug\_handler.bin <---

# mips64-octeon-linux-gnu-objcopy -j .text -O binary mips-octeon\_remote\_debug\_handler.o

# (1.3) From generated bin file manually create octeon-remote-mips-bin.c (using hexdump)

#

# (2) octeon-remote-mips-bin.c defines variables which are used by ../remote-lib/octeon-remote-debug-handler.c for exception handling.

#

# (3) List of cavium provided files changed by MCP: ../../bootloader/u-boot/lib\_mips/lib\_octeon\_shared.c ,  
../remote-lib/octeon-remote-debug-handler.c

include make-env.mk

include variables.mk

\$(Nx)GEN\_CFG\_DIR := \$(\$(Nx)BUILD\_DIR)/\$(PFX\_COMP\_BUILD)\$(Tx)

```
$(Nx)GEN_CFG_SENTINEL := $($(Nx)GEN_CFG_DIR)/.config_sentinel
```

```
define $(Nx)config_TEMPLATE
```

```
.PHONY: $(Px)all$(Plx)
```

```
$(Px)all$(Plx): $($(Nx)GEN_CFG_SENTINEL)
```

```
$($(Nx)GEN_CFG_SENTINEL): \
```

```
    | $(call mkdir_prereq,$($(Nx)GEN_CFG_DIR))
```

```
$(LN) -nsf ../../../bootloader/u-boot/include/configs $$(@D)/configs
```

```
$(TOUCH) $$@
```

```
endif
```

```
$(eval $(call $(Nx)config_TEMPLATE))
```

```
$(Nx)ARCHIVE_SENTINEL := $($(Nx)GEN_CFG_SENTINEL)
```

```
$(Nx)LIB_NAME := octeon-remote-genmc
```

```
# With ARM we need this make file to get the include paths, but don't need any C files compiled
```

```
ifneq ($(filter $(ARM32_ALL_TARGETS),$(TARGET)),)
```

```
$(Nx)LIB_SRC_DIR := ..
```

```
$(Nx)LIB_C_SRC :=
```

```
else
```

```
$(Nx)LIB_SRC_DIR := .
```

```
$(Nx)LIB_C_SRC := \
```

```
    octeon-remote-mips-bin.c \
```

```
    octeon_remote_dyno_api.c \
```

```
    octeon_pci_dmap.c \
```

```
    octeon_ldr_api.c \
```

```
    octeon_gige.c \
```

```
    ../remote-lib/octeon-remote.c \
```

```
    ../remote-lib/octeon-remote-map.c \
```

```
    ../remote-lib/octeon-remote-console.c \
```

```
    ../remote-lib/octeon-remote-cvmx.c \
```

```
    ../remote-lib/octeon-remote-debug-handler.c \
```

```
    ../remote-lib/octeon-remote-gdbremote.c \
```

```
    ../remote-lib/octeon-remote-pci.c \
```

```
    ../remote-lib/octeon-remote-linux.c \
```

```
    ../../executive/cvmx-bootmem.c \
```

```
    ../../executive/cvmx-l2c.c \
```

```
    ../../executive/cvmx-csr-db-support.c \
```

```
    ../../executive/cvmx-csr-db.c \
```

```
    ../../executive/cvmx-clock.c \
```

```
    ../../executive/cvmx-twsi.c \
```

```
    ../../executive/cvmx-warn.c \
```

```
    ../../bootloader/nand-boot/crc32.c \
```

```
    ../../bootloader/u-boot/arch/mips/cpu/octeon/lib_octeon_shared.c \
```

```
endif
```

```
$(Nx)LIB_H_SRC := octeon_pci_lib_api.h octeon_ldr_api.h octeon_gige.h
```

```
$(Nx)OPTFLAGS += \  
-O2 \  
-g \  
--param large-function-growth=100000 \  
--param max-inline-insns-single=1600 \  
--param inline-unit-growth=300 \  
  
ifneq ($(filter $(ARM64_ALL_TARGETS),$(TARGET)),)  
$(Nx)LIB_WARNINGS_REMOVE := \  
-Wmissing-declarations \  
-Wmissing-format-attribute \  
-Wmissing-prototypes \  
-Wnested-externs \  
-Wshadow \  
-Wsign-compare \  
-Wstrict-prototypes \  
-Wswitch-default \  
-Wunused-parameter \  
-Wwrite-strings \  
-Wcast-qual \  
-Wcast-align \  
  
else  
$(Nx)LIB_WARNINGS_REMOVE := \  
-Wmissing-declarations \  
-Wmissing-format-attribute \  
-Wmissing-prototypes \  
-Wnested-externs \  
-Wshadow \  
-Wsign-compare \  
-Wstrict-prototypes \  
-Wswitch-default \  
-Wunused-parameter \  
-Wwrite-strings \  
  
endif  
  
ifeq ($(CLANG_BUILD),1)  
ifneq ($(filter $(ARM64_ALL_TARGETS),$(TARGET)),)  
$(Nx)OPTFLAGS += \  
-Wno-cast-qual \  
-Wno-parentheses-equality \  
-Wno-tautological-compare \  
-Wno-bitfield-constant-conversion \  
-Wno-error=asm-operand-widths \  

```

```

else
$(Nx)OPTFLAGS += \
-Wno-cast-qual \
-Wno-parentheses-equality \
-Wno-tautological-compare \
-Wno-bitfield-constant-conversion \

endif
endif

ifeq ($(filter $(ARM32_ALL_TARGETS),$(TARGET)),)
$(Nx)SYS_LIB_DEPENDENCIES := -lpthread

$(Nx)LIB_DEPENDENCIES := -lbtrace -lbins
endif

$(Nx)LIB_DEFINES := \
-D_GNU_SOURCE \
-DUSE_RUNTIME_MODEL_CHECKS=1 \
-DCVMX_BUILD_FOR_LINUX_HOST=1 \
-D__BYTE_ORDER=__LITTLE_ENDIAN \

$(Nx)LIB_INCLUDES := \
-I$($(Nx)GEN_CFG_DIR) \
-I$($(Nx)BUILD_DIR)/../remote-lib \
-I$($(Nx)BUILD_DIR)/../executive \
-I$($(Nx)BUILD_DIR)/../bootloader/u-boot/arch/mips/include/asm/arch-octeon \

$(Nx)LIB_UNDER_ORCHESTRATOR := 1

include lib_rules.mk

Found in path(s):
* /opt/cola/permits/1267363789_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/Makefile-
crankshaft.binos
No license file was found, but licenses were detected in source scan.

/*
*-----
* octeon_lock_test.c
* Command line utility to unit the octeon-remote-genmc
* semaphores handlers.
*
* This program is NOT intended to be built as part of system image,
* it exists solely to document test methodology for semaphore locks
* used by octeon-remote-genmc
*
* May 2017, Robbie King

```

\*  
\* Copyright (c) 2017 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1267363789\_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon\_lock\_test.c

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

/\*  
\*-----  
\* octeon\_pci\_dmap\_priv.h  
\*  
\* April 2011, Vineet Sahijwani  
\*  
\* Copyright (c) 2011-2012, 2017 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1267363789\_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon\_pci\_dmap\_priv.h

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

/\*  
\*-----  
\* octeon\_gige.c  
\* This file contains routines that are used by the front panel Gige  
\* driver running in the control plane. Miscellaneous routines to program  
\* the Cavium CN66 and SMI based access to Marvell PHY  
\*  
\* March 2012, ovld-sw-io-infra-dev@cisco.com  
\*  
\* Copyright (c) 2012-2014, 2017-2018 by Cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1267363789\_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon\_gige.c

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

/\*  
\*-----  
\* octeon\_pci\_lib\_api.h



```

* APIs for Cavium Octeon PCIe DMAP and LDR
*
* May 2011, Vineet Sahijwani
*
* Copyright (c) 2011-2012, 2016-2017 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1267363789_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-
genmc/octeon_pci_lib_api.h
No license file was found, but licenses were detected in source scan.

```

```

/*
* This file contains Octeon CN6300 initialization APIs.
*
* March 2011, Nidhi Shah (nidshah@cisco.com)
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved.
*
*/

```

Found in path(s):

```

* /opt/cola/permits/1267363789_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-
genmc/octeon_remote_dyno_api.c

```

# 1.4 glibc 2.32 r0

## 1.4.1 Available under license :

```

@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

```

```

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

```

```

@display
Copyright @copyright{ } 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

```

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

```

@end display

```

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@enumerate 0

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@enumerate a

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@end enumerate

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## 1.7 dbus-common 1.12.8

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## 1.10 zstd 1.4.5 r0

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## 1.14 shadow-utils 4.6

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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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## 1.16 libvirt 6.3.0 r0

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## 1.18 libunistring 0.9.10 r0

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

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## 1.19 libsemanage 2.9

### 1.19.1 Available under license :

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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Ty Coon, President of Vice

That's all there is to it!

## 1.20 basesystem 11

### 1.20.1 Available under license :

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

```
%global distroname %(source /etc/os-release; echo ${REDHAT_SUPPORT_PRODUCT})
```

Summary: The skeleton package which defines a simple %{distroname} system

Name: basesystem

Version: 11

Release: 5%{?dist}

License: Public Domain

Group: System Environment/Base

Requires(pre): setup filesystem

BuildArch: noarch

%description

Basesystem defines the components of a basic %{distroname} system  
(for example, the package installation order to use during bootstrapping).  
Basesystem should be in every installation of a system, and it  
should never be removed.

%prep

%build

%install

%clean

%files

%defattr(-,root,root,-)

%changelog

\* Tue May 07 2019 CentOS Sources <bugs@centos.org> - 11-5.el8.centos

- adjust description

- adjust summary

\* Wed Feb 07 2018 Fedora Release Engineering <releng@fedoraproject.org> - 11-5

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- fix FTBFS typo (#715640), add disttag
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- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_15\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild)
- \* Fri Jul 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-3  
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_12\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild)
- \* Mon Feb 23 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-2  
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_11\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild)
- \* Mon Oct 20 2008 Phil Knirsch <pknirsch@redhat.com> 10.0-1  
- Bump version and rebuild for Fedora 10 (#451289)
- \* Fri Mar 02 2007 Phil Knirsch <pknirsch@redhat.com> - 8.1-1  
- Cleanup per package review (#225608)

- \* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.0-5.1.1  
- rebuild
- \* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>  
- rebuilt
- \* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com>  
- rebuilt
- \* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>  
- rebuilt
- \* Wed Jan 22 2003 Tim Powers <timp@redhat.com>  
- rebuild
- \* Wed Aug 21 2002 Bill Nottingham <notting@redhat.com>  
- bump rev
- \* Fri Jun 21 2002 Tim Powers <timp@redhat.com>  
- automated rebuild
- \* Thu May 23 2002 Tim Powers <timp@redhat.com>  
- automated rebuild
- \* Wed Jan 09 2002 Tim Powers <timp@redhat.com>  
- automated rebuild
- \* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>  
- automatic rebuild
- \* Tue Jun 6 2000 Bill Nottingham <notting@redhat.com>  
- rebuild. Wheee.
- \* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>  
- auto rebuild in the new build environment (release 4)
- \* Tue Mar 16 1999 Cristian Gafton <gafton@redhat.com>  
- don't require rpm (breaks dependency chain)
- \* Tue Mar 16 1999 Erik Troan <ewt@redhat.com>  
- require rpm
- \* Wed Dec 30 1998 Cristian Gafton <gafton@redhat.com>  
- build for 6.0
- \* Tue Aug 11 1998 Jeff Johnson <jbj@redhat.com>  
- build root

\* Mon Apr 27 1998 Prospector System <bugs@redhat.com>

- translations modified for de, fr, tr

\* Tue Sep 23 1997 Erik Troan <ewt@redhat.com>

- made a noarch package

Found in path(s):

\* /opt/cola/permits/1267355348\_1644279866.18/0/basesystem-11-5.el8.src.rpm-cosi-expand-archive-kpkKcrr3/basesystem.spec

## 1.21 oauthlib 3.1.0 r0

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## 1.22 iputils 20180629

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

This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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## 1.27 nmap 7.80 r0

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On all platforms, Nmap is normally linked with:

- o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.  
<http://www.tcpdump.org/>
- o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP\_MODIFICATIONS.



<http://code.google.com/p/libdnet/>

- o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcr subdirectory.

<http://www.pcre.org/>

- o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the `--without-liblua` configuration directive.

<http://www.lua.org/>

- o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the `--without-openssl` configuration directive.

<http://www.openssl.org/>

- o LIBLINEAR. Used for IPv6 OS classification.

<http://www.csie.ntu.edu.tw/~cjlin/liblinear/>

- o libsvn. The Subversion library, used by the updater program `nmap-update`. <http://subversion.apache.org/>

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On Windows only, Nmap uses:

- o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory `mswin32/winpcap`.

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Zenmap and Ndiff require:

- o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either `py2exe` or `py2app`.

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<http://www.cairographics.org/>

- o libgailutil: Accessibility support for GTK+.

- o libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.

<http://www.libpng.org/> <http://www.ijg.org/> <http://www.libtiff.org/>

- o zlib and bzip2: compression libraries.

- <http://www.zlib.org/> <http://www.bzip.org/>
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## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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

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

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:



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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so

that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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

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

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

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

(For example, a function in a library to compute square roots has

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

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

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

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

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

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

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

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

medium customarily used for software interchange.

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by

this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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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.

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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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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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## 1.34 pyudev 0.22.0 r0

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## 1.35 cryptsetup-libs 2.3.3

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## 1.42 pcsc-lite 1.9.0 r0

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```
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```

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## 1.43 itsdangerous 1.1.0 r0

### 1.43.1 Available under license :

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```
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/itsdangerous/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = \"(.*)\"", f.read()).group(1)

setup(
    name="itsdangerous",
    version=version,
```

```

url="https://palletsprojects.com/p/itsdangerous/",
project_urls={
    "Documentation": "https://itsdangerous.palletsprojects.com/",
    "Code": "https://github.com/pallets/itsdangerous",
    "Issue tracker": "https://github.com/pallets/itsdangerous/issues",
},
license="BSD",
author="Armin Ronacher",
author_email="armin.ronacher@active-4.com",
maintainer="Pallets Team",
maintainer_email="contact@palletsprojects.com",
description="Various helpers to pass data to untrusted environments and back.",
long_description=readme,
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*",
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 2.7",
    "Programming Language :: Python :: 3",
    "Programming Language :: Python :: 3.4",
    "Programming Language :: Python :: 3.5",
    "Programming Language :: Python :: 3.6",
    "Programming Language :: Python :: 3.7",
],
)

```

Found in path(s):

\* /opt/cola/permits/1294740012\_1648246441.67/0/itsdangerous-1-1-0-tar-gz/itsdangerous-1.1.0/setup.py

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----

The initial implementation of itsdangerous was inspired by Django's signing module.

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.. rst-class:: hide-header

itsdangerous

=====

.. image:: \_static/itsdangerous-logo.png  
:align: center

:target: <https://palletsprojects.com/p/itsdangerous/>

Sometimes you just want to send some data to untrusted environments. But how to do this safely? The trick involves signing. Given a key only you know, you can cryptographically sign your data and hand it over to someone else. When you get the data back you can easily ensure that nobody tampered with it.

Granted, the receiver can decode the contents and look into the package, but they can not modify the contents unless they also have your secret key. So if you keep the key secret and complex, you will be fine.

Internally itsdangerous uses HMAC and SHA-512 for signing by default. The initial implementation was inspired by `Django's signing module` <<https://docs.djangoproject.com/en/dev/topics/signing/>>`. It also supports JSON Web Signatures (JWS). The library is BSD licensed.

## Installing

-----

Install and update using `pip`:

.. code-block:: text

```
pip install -U itsdangerous
```

.. \_pip: <https://pip.pypa.io/en/stable/quickstart/>

## Example Use Cases

-----

- You can serialize and sign a user ID in a URL and email it to them to unsubscribe from a newsletter. This way you don't need to generate one-time tokens and store them in the database. Same thing with any kind of activation link for accounts and similar things.
- Signed objects can be stored in cookies or other untrusted sources which means you don't need to have sessions stored on the server, which reduces the number of necessary database queries.
- Signed information can safely do a roundtrip between server and client in general which makes them useful for passing server-side state to a client and then back.

## Table of Contents

-----



.. toctree::

signer  
serializer  
exceptions  
timed  
url\_safe  
jws  
encoding  
license  
changes

Found in path(s):

\* /opt/cola/permits/1294740012\_1648246441.67/0/itsdangerous-1-1-0-tar-gz/itsdangerous-1.1.0/docs/index.rst

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Metadata-Version: 1.2

Name: itsdangerous

Version: 1.1.0

Summary: Various helpers to pass data to untrusted environments and back.

Home-page: <https://palletsprojects.com/p/itsdangerous/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets Team

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD

Project-URL: Documentation, <https://itsdangerous.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/itsdangerous>

Project-URL: Issue tracker, <https://github.com/pallets/itsdangerous/issues>

Description: itsdangerous

=====

... so better sign this

Various helpers to pass data to untrusted environments and to get it back safe and sound. Data is cryptographically signed to ensure that a token has not been tampered with.

It's possible to customize how data is serialized. Data is compressed as needed. A timestamp can be added and verified automatically while loading a token.

## Installing

-----

Install and update using `pip`:

.. code-block:: text

```
pip install -U itsdangerous
```

.. \_pip: <https://pip.pypa.io/en/stable/quickstart/>

## A Simple Example

-----

Here's how you could generate a token for transmitting a user's id and name between web requests.

.. code-block:: python

```
from itsdangerous import URLSafeSerializer
auth_s = URLSafeSerializer("secret key", "auth")
token = auth_s.dumps({"id": 5, "name": "itsdangerous"})

print(token)
# eyJpZCI6NSwibmFtZSI6ImI0c2RhbmRlcmlcyJ9.6YP6T0BaO67XP--9UzTrmurXSmg

data = auth_s.loads(token)
print(data["name"])
# itsdangerous
```

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-----

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-----

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- \* Code: <https://github.com/pallets/itsdangerous>
- \* Issue tracker: <https://github.com/pallets/itsdangerous/issues>
- \* Test status: <https://travis-ci.org/pallets/itsdangerous>
- \* Test coverage: <https://codecov.io/gh/pallets/itsdangerous>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*

Found in path(s):

- \* /opt/cola/permits/1294740012\_1648246441.67/0/itsdangerous-1-1-0-tar-gz/itsdangerous-1.1.0/PKG-INFO
- \* /opt/cola/permits/1294740012\_1648246441.67/0/itsdangerous-1-1-0-tar-gz/itsdangerous-1.1.0/src/itsdangerous.egg-info/PKG-INFO

## 1.44 tftp-hpa 5.2 r0

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## 1.45 glibc-common 2.28

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization

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

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# 1.52 coreutils-common 8.30

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```
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```
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Upstream-Contact: Sebastian Pipping <[sebastian@pipping.org](mailto:sebastian@pipping.org)>

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## 1.59 libcap-ng 0.7.11 r0

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Version 2.1, February 1999

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

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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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## 1.65 ncurses 6.2 r0

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DRuntime: Runtime Library for the D Programming Language

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Version 3, 29 June 2007

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|               |                                |
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| mach_override | lib/interception/mach_override |
|---------------|--------------------------------|

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## 1.71 jinja2 2.11.2 r0

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```
import io
```

```
import re
```

```
from setuptools import find_packages
```

```
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
```

```
    readme = f.read()
```

```
with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
```

```
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)
```

```
setup(
```

```
    name="Jinja2",
```

```
    version=version,
```

```
    url="https://palletsprojects.com/p/jinja/",
```

```
    project_urls={
```

```
        "Documentation": "https://jinja.palletsprojects.com/",
```

```
        "Code": "https://github.com/pallets/jinja",
```

```
        "Issue tracker": "https://github.com/pallets/jinja/issues",
```

```
    },
```

```
    license="BSD-3-Clause",
```

```
    author="Armin Ronacher",
```

```
    author_email="armin.ronacher@active-4.com",
```

```
    maintainer="Pallets",
```

```
    maintainer_email="contact@palletsprojects.com",
```

```
    description="A very fast and expressive template engine.",
```

```
    long_description=readme,
```

```
    classifiers=[
```

```
        "Development Status :: 5 - Production/Stable",
```

```
        "Environment :: Web Environment",
```

```
        "Intended Audience :: Developers",
```

```
        "License :: OSI Approved :: BSD License",
```

```
        "Operating System :: OS Independent",
```

```
        "Programming Language :: Python",
```

```
        "Programming Language :: Python :: 2",
```

```
        "Programming Language :: Python :: 2.7",
```

```
        "Programming Language :: Python :: 3",
```

```
        "Programming Language :: Python :: 3.5",
```

```
        "Programming Language :: Python :: 3.6",
```

```
        "Programming Language :: Python :: 3.7",
```

```
        "Programming Language :: Python :: 3.8",
```

```
        "Programming Language :: Python :: Implementation :: CPython",
```

```

"Programming Language :: Python :: Implementation :: PyPy",
"Topic :: Internet :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext.babel_extract[i18n]"]},
)

```

Found in path(s):

\* /opt/cola/permits/1294739281\_1648246282.05/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py

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Metadata-Version: 2.1

Name: Jinja2

Version: 2.11.2

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Documentation, <https://jinja.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/jinja>

Project-URL: Issue tracker, <https://github.com/pallets/jinja/issues>

Description: Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.

- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

## Installing

-----

Install and update using `pip`:

.. code-block:: text

```
$ pip install -U Jinja2
```

.. \_pip: <https://pip.pypa.io/en/stable/quickstart/>

## In A Nutshell

-----

.. code-block:: jinja

```
{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
{% for user in users %}
<li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}
```

## Links

-----

- Website: <https://palletsprojects.com/p/jinja/>
- Documentation: <https://jinja.palletsprojects.com/>
- Releases: <https://pypi.org/project/Jinja2/>
- Code: <https://github.com/pallets/jinja>
- Issue tracker: <https://github.com/pallets/jinja/issues>
- Test status: [https://dev.azure.com/pallets/jinja/\\_build](https://dev.azure.com/pallets/jinja/_build)

- Official chat: <https://discord.gg/t6rrQZH>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

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Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

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Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Text Processing :: Markup :: HTML

Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*, !=3.4.\*

Description-Content-Type: text/x-rst

Provides-Extra: i18n

Found in path(s):

\* /opt/cola/permits/1294739281\_1648246282.05/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKG-INFO

\* /opt/cola/permits/1294739281\_1648246282.05/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO

## 1.72 websocket-client 0.57.0 r0

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## 1.77 networkx 2.5 r0

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Aric Hagberg <hagberg@lanl.gov>

Dan Schult <dschult@colgate.edu>

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| 1.MIT                     | 10/23/2019       | 02/10/2020       | lib/librte_eal/windows/include/dirent.h |
| 2.BSD-2-Clause            | 10/23/2019       | 12/18/2019       | lib/librte_eal/windows/include/getopt.h |
| 3.ISC AND<br>BSD-2-Clause | 10/23/2019       | 12/18/2019       | lib/librte_eal/windows/getopt.c         |
| 4.GPL-2.0                 | 09/25/2019       | 12/18/2019       | buildtools/pmdinfogen/pmdinfogen.*      |

## 1.80 log-rotate 3.17.0 r0

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```
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```

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```
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```

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

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# 1.81 curl 7.72.0 r0

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=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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# 1.82 idna 2.10 r0

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\* /opt/cola/permits/1308206678\_1649992634.3/0/kjd-idna-v2-10-0-ge5c11db-tar-gz/kjd-idna-b8defb9/LICENSE.rst

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"""

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

"""

```
import io, sys
from setuptools import setup
```



```

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Programming Language :: Python :: 3.7',
            'Programming Language :: Python :: 3.8',
            'Programming Language :: Python :: Implementation :: CPython',
            'Programming Language :: Python :: Implementation :: PyPy',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
    }

    setup(**arguments)

if __name__ == '__main__':

```

main()

Found in path(s):

\* /opt/cola/permits/1308206678\_1649992634.3/0/kjd-idna-v2-10-0-ge5c11db-tar-gz/kjd-idna-b8defb9/setup.py

## 1.83 yum 4.4.2

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## 1.84 libmodulemd 2.9.4

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## 1.85 octeon\_utils 3.1.2

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## ANNEX 1 TO OCTEON SDK LICENSE AGREEMENT

### OCTEON SDK LICENSE TYPES

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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Kirill Klenov  
Kirill Malovitsa  
Kyrylo Perevozchikov  
Kyungmin Lee  
Lars P. Sndergaard  
Liu Hua  
Louis-Philippe Huberdeau  
Loc Lajeanne  
Lu Gong  
Lubomir Gelo  
Ludovic Gasc  
Luis Pedrosa  
Lukasz Marcin Dobrzanski  
Makc Belousow  
Manuel Miranda  
Marat Sharafutdinov  
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Martin Melka

Martin Richard  
Mathias Frjdmann  
Mathieu Dugr  
Matthieu Hauglustaine  
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Michael Ihnatenko  
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# 1.87 python-setuptools 49.6.0 r0

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## 1.91 dtc 1.6.0 r0

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David Gibson <david@gibson.dropbear.id.au>

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2 November 2007

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

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

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

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

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

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if

necessary. Here is a sample; alter the names:

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

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

LGPL

LGPL

LGPL

This is the Debian GNU/Linux prepackaged version of kmod.

It has been packaged by Marco d'Itri <md@linux.it>.

Original sources were obtained from:

<http://www.kernel.org/pub/linux/utils/kernel/kmod/>

Copyright (C) 2011 ProFUSION embedded systems.

The kmod tools are licensed under the GNU GPL version 2 or newer.

libkmod is licensed under the GNU LGPL version 2.1 or newer.

On Debian systems the complete text of the licenses can be found in  
/usr/share/common-licenses/GPL-2 and /usr/share/common-licenses/LGPL-2.1 .

## 1.94 procps 3.3.16 r0

### 1.94.1 Available under license :

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Version 2, June 1991

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Preamble

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

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Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

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2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- 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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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 Program.

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- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- 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.>  
Copyright (C) <year> <name of author>

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You should have received a copy of the GNU General Public License along  
with this program; if not, write to the Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

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

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

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

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

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

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consider it more useful to permit linking proprietary applications with the  
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of this license document, but changing it is not allowed.

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

## Preamble

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free

software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

(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.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so

that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.



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

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

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

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# 1.99 python3-libdnf 0.55.0

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# 1.100 pathlib 2.3.5 r0

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\* /opt/cola/permits/1294739539\_1648246950.6/0/pathlib2-2-3-5-1-tar-gz/pathlib2-2.3.5/tests/test\_pathlib2.py

\* /opt/cola/permits/1294739539\_1648246950.6/0/pathlib2-2-3-5-1-tar-gz/pathlib2-2.3.5/pathlib2/\_\_init\_\_.py

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Metadata-Version: 1.1

Name: pathlib2

Version: 2.3.5

Summary: Object-oriented filesystem paths

Home-page: <https://github.com/mcmattroffaes/pathlib2>

Author: Matthias C. M. Troffaes

Author-email: [matthias.troffaes@gmail.com](mailto:matthias.troffaes@gmail.com)

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Description: The `old` `pathlib` <<https://bitbucket.org/pitrou/pathlib>>`\_` module on bitbucket is in bugfix-only mode.  
The goal of `pathlib2` is to provide a backport of  
`standard` `pathlib` <<http://docs.python.org/dev/library/pathlib.html>>`\_` module which tracks the standard library module,  
so all the newest features of the standard `pathlib` can be  
used also on older Python versions.

#### Download

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Standalone releases are available on PyPI:

<http://pypi.python.org/pypi/pathlib2/>

#### Development

-----

The main development takes place in the Python standard library: see  
the `Python developer's guide` <<http://docs.python.org/devguide/>>`\_`.  
In particular, new features should be submitted to the  
`Python bug tracker` <<http://bugs.python.org/>>`\_`.

Issues that occur in this backport, but that do not occur not in the  
standard Python `pathlib` module can be submitted on  
the `pathlib2 bug tracker` <<https://github.com/mcmattroffaes/pathlib2/issues>>`\_`.

#### Documentation

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Refer to the  
`standard` `pathlib` <<http://docs.python.org/dev/library/pathlib.html>>`\_`  
documentation.

#### Known Issues

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For historic reasons, pathlib2 still uses bytes to represent file paths internally. Unfortunately, on Windows with Python 2.7, the file system encoder (`mcbs`) has only poor support for non-ascii characters, and can silently replace non-ascii characters without warning. For example, `u".encode(sys.getfilesystemencoding())` results in `????` which is obviously completely useless.

Therefore, on Windows with Python 2.7, until this problem is fixed upstream, unfortunately you cannot rely on pathlib2 to support the full unicode range for filenames. See [issue #56 <https://github.com/mcmtrroffaes/pathlib2/issues/56>](https://github.com/mcmtrroffaes/pathlib2/issues/56) for more details.

.. |travis| image:: <https://travis-ci.org/mcmtrroffaes/pathlib2.png?branch=develop>  
:target: <https://travis-ci.org/mcmtrroffaes/pathlib2>  
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:target: <https://ci.appveyor.com/project/mcmtrroffaes/pathlib2>  
:alt: appveyor

.. |codecov| image:: <https://codecov.io/gh/mcmtrroffaes/pathlib2/branch/develop/graph/badge.svg>  
:target: <https://codecov.io/gh/mcmtrroffaes/pathlib2>  
:alt: codecov

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: MIT License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

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# 1.101 findutils 4.7.0 r0

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## 1.103 log-rotate 3.14.0

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Upstream-Contact: Yann Collet <Cyan4973@github.com>

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## 1.113 systemtap 4.3 r0

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Protocol Buffers for Go with Gadgets

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

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

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## 1.128 libsmi 0.5.0 r0

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.

Version: 1.1.2

Entered-date: 23MAR97

Description: C-functions for parsing command line options, both  
traditional one-character options, and GNU'ish  
--long-options.

Keywords: programming, library, lib, commandline, options

Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)

Primary-site: <http://www.ifi.uio.no/~sverrehu/pub-unix/>

Alternate-site: [sunsite.unc.edu /pub/Linux/libs  
shhopt-1.1.2.tar.gz](http://sunsite.unc.edu/pub/Linux/libs/shhopt-1.1.2.tar.gz)

Platforms: Requires ANSI C-compiler.

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## 1.129 libmount 2.32.1

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|                  |                           |
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#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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libacl/\*.c

libacl/\*.h

libmisc/\*.c

tools/do\_set.\*

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# 1.135 pycparser 2.20 r0

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pycparser -- A C parser in Python

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# 1.136 libusb 1.0.23 r0

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# 1.137 cJSON 1.7.13 r0

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=====

Original Author:

- [Dave Gamble](https://github.com/DaveGamble)

Current Maintainer:

- [Max Bruckner](https://github.com/FSMaxB)

- [Alan Wang](https://github.com/Alanscut)

Contributors:

- \* [Ajay Bhargav](https://github.com/ajaybhargav)
- \* [Alper Akcan](https://github.com/alperakcan)
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.\" .Sh ENVIRONMENT
.\" .Sh EXAMPLES
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.\" (command return values (to shell) and
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.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
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.\" .Sh HISTORY
.\" .Sh BUGS
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/aaaa\_28.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/x25\_19.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/rdataslab.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/ratelimiter.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/tsig.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/lfsr.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/nsap\_22.c  
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/callbacks.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/rbt.h  
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isccc/base64.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isccc/symtab.c
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isccc/include/isccc/events.h
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```

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/isc/alist.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/isc/include/isc/symtype.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/isc/include/isc/alist.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/isc/include/isc/sexpr.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/isc/lib.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/isc/include/isc/util.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/isc/include/isc/base64.h

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/sockaddr.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/lex.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/result.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/gen.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/rdata.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/socket.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/time.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/name.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rcode.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/task.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/types.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/result.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/name.h

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 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/iscconf/include/iscconf/grammar.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/ds.c

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 .\"  
 .\" \$Id: lwres\_getrrsetbyname.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$  
 .\"

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.\" \$Id: lwres\_gai\_strerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getservent.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getprotoent.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/openbsd/include/sys/bitypes.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/dns\_sv.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/lcl\_p.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_net\_ntop.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/pathnames.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_neta.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/hpux9/include/sys/bitypes.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/nul\_ng.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/unixware20/include/sys/bitypes.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/bsdos/include/sys/bitypes.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getnetgrent.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/irs\_p.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/hesiod\_p.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/hesiod.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/nis\_ng.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/cygwin/include/sys/bitypes.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/nis\_pr.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/gen\_nw.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/aix4/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/mpe/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/next/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/bitncmp.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/gen\_pw.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/nameser/ns\_parse.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/qnx/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/irs.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_net\_pton.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/sunos/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/nis\_p.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/gen\_pr.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_pton.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/aix32/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/nameser/ns\_netint.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/irix/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/unixware212/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/dns\_pw.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/util.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/freebsd/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/hpux/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/irs\_data.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/nis\_ho.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/nameser/ns\_name.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/gen\_ng.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/irs\_data.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/gen\_p.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/ultrix/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/lynxos/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/nis\_sv.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getnetent.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/nis\_pw.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/sco42/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/netbsd/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/gen\_sv.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/hesiod.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/bsdos2/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/nis\_nw.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/dns\_pr.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/nameser/ns\_ttl.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getpwent.c  
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/assertions.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/heap.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/mem.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/heap.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/list.h

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/\*

\* Get the response to 'request' by filling in 'message'.

\*

\* 'options' is passed to dns\_message\_parse(). See dns\_message\_parse()

\* for more details.

\*

\* Requires:

\*

\* 'request' is a valid request for which the caller has received the

\* completion event.

\*

\* The result code of the completion event was ISC\_R\_SUCCESS.

\*

\* Returns:

\*

\* ISC\_R\_SUCCESS

\*

\* Any result that dns\_message\_parse() can return.

\*/

Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/request.h

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.\" $Id: lwres.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/mf\_4.c

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/ns\_2.h

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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/rdatatype.h
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/event.c
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/minfo\_14.h
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/win32/version.c
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```

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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_lnaof.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_network.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_ntoa.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_netof.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_makeaddr.c

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/isc/heap.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/heap.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/isc/list.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/cygwin/include/ansi\_realloc.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/isc/memcluster.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/assertions.c

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<!-- \$Id: lwres\_gethostent.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_gethostent</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_gethostbyname</refname>

<refname>lwres\_gethostbyname2</refname>

<refname>lwres\_gethostbyaddr</refname>

<refname>lwres\_gethostent</refname>

<refname>lwres\_sethostent</refname>

<refname>lwres\_endhostent</refname>

<refname>lwres\_gethostbyname\_r</refname>

<refname>lwres\_gethostbyaddr\_r</refname>

<refname>lwres\_gethostent\_r</refname>

<refname>lwres\_sethostent\_r</refname>

<refname>lwres\_endhostent\_r</refname>

<refpurpose>lightweight resolver get network host entry</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

struct hostent \*

<function>lwres\_gethostbyname</function></funcdef>

<paramdef>const char \*name</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

struct hostent \*

<function>lwres\_gethostbyname2</function></funcdef>

<paramdef>const char \*name</paramdef>

<paramdef>int af</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

struct hostent \*

```

<function>lwres_gethostbyaddr</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr_r</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *

```

```

<function>lwres_gethostent_r</function></funcdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent_r</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent_r</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>
<para>
These functions provide hostname-to-address and
address-to-hostname lookups by means of the lightweight resolver.
They are similar to the standard
<citerefentry>
<refentrytitle>gethostent</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
functions provided by most operating systems.
They use a
<type>struct hostent</type>
which is usually defined in
<filename>&lt;namedb.h&gt;</filename>.

<programlisting>
struct hostent {
    char    *h_name;      /* official name of host */
    char    **h_aliases; /* alias list */
    int     h_addrtype;   /* host address type */
    int     h_length;     /* length of address */
    char    **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
</programlisting>
</para>

```

<para>

The members of this structure are:

<variablelist>

<varlistentry><term><constant>h\_name</constant></term>

<listitem>

<para>

The official (canonical) name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addrtype</constant></term>

<listitem>

<para>

The type of address being returned &mdash;

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addr\_list</constant></term>

<listitem>

<para>

A <type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

For backward compatibility with very old software,

<constant>h\_addr</constant>

is the first address in

<constant>h\_addr\_list.</constant>

</para>

<para>

<function>lwres\_gethostent(</function>,

`<function>lwres_sethostent()`,  
`<function>lwres_endhostent()`,  
`<function>lwres_gethostent_r()`,  
`<function>lwres_sethostent_r()`  
 and  
`<function>lwres_endhostent_r()`  
 provide iteration over the known host entries on systems that  
 provide such functionality through facilities like  
`<filename>/etc/hosts</filename>`  
 or NIS. The lightweight resolver does not currently implement  
 these functions; it only provides them as stub functions that always  
 return failure.  
`</para>`

`<para>`  
`<function>lwres_gethostbyname()` and  
`<function>lwres_gethostbyname2()` look up the hostname  
`<parameter>name</parameter>`.  
`<function>lwres_gethostbyname()` always looks for an IPv4  
 address while `<function>lwres_gethostbyname2()` looks for an  
 address of protocol family `<parameter>af</parameter>`: either  
`<type>PF_INET</type>` or `<type>PF_INET6</type>` &mdash; IPv4 or IPV6  
 addresses respectively. Successful calls of the functions return a  
`<type>struct hostent</type>` for the name that was looked up.  
`<type>NULL</type>` is returned if the lookups by  
`<function>lwres_gethostbyname()` or  
`<function>lwres_gethostbyname2()` fail.  
`</para>`

`<para>`  
 Reverse lookups of addresses are performed by  
`<function>lwres_gethostbyaddr()`.  
`<parameter>addr</parameter>` is an address of length  
`<parameter>len</parameter>` bytes and protocol family  
`<parameter>type</parameter>` &mdash; `<type>PF_INET</type>` or  
`<type>PF_INET6</type>`.  
`<function>lwres_gethostbyname_r()` is a thread-safe function  
 for forward lookups. If an error occurs, an error code is returned in  
`<parameter>*error</parameter>`.  
`<parameter>resbuf</parameter>` is a pointer to a `<type>struct  
 hostent</type>` which is initialised by a successful call to  
`<function>lwres_gethostbyname_r()`.  
`<parameter>buf</parameter>` is a buffer of length  
`<parameter>len</parameter>` bytes which is used to store the  
`<constant>h_name</constant>`, `<constant>h_aliases</constant>`, and  
`<constant>h_addr_list</constant>` elements of the `<type>struct  
 hostent</type>` returned in `<parameter>resbuf</parameter>`.  
 Successful calls to `<function>lwres_gethostbyname_r()`

return <parameter>resbuf</parameter>,  
which is a pointer to the <type>struct hostent</type> it created.  
</para>

<para>  
<function>lwres\_gethostbyaddr\_r()</function> is a thread-safe function  
that performs a reverse lookup of address <parameter>addr</parameter>  
which is <parameter>len</parameter> bytes long and is of protocol  
family <parameter>type</parameter> &mdash; <type>PF\_INET</type> or  
<type>PF\_INET6</type>. If an error occurs, the error code is returned  
in <parameter>\*error</parameter>. The other function parameters are  
identical to those in <function>lwres\_gethostbyname\_r()</function>.  
<parameter>resbuf</parameter> is a pointer to a <type>struct  
hostent</type> which is initialised by a successful call to  
<function>lwres\_gethostbyaddr\_r()</function>.  
<parameter>buf</parameter> is a buffer of length  
<parameter>len</parameter> bytes which is used to store the  
<constant>h\_name</constant>, <constant>h\_aliases</constant>, and  
<constant>h\_addr\_list</constant> elements of the <type>struct  
hostent</type> returned in <parameter>resbuf</parameter>. Successful  
calls to <function>lwres\_gethostbyaddr\_r()</function> return  
<parameter>resbuf</parameter>, which is a pointer to the  
<function>struct hostent()</function> it created.  
</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The functions

<function>lwres\_gethostbyname()</function>,  
<function>lwres\_gethostbyname2()</function>,  
<function>lwres\_gethostbyaddr()</function>,  
and

<function>lwres\_gethostent()</function>

return NULL to indicate an error. In this case the global variable

<type>lwres\_h\_errno</type>

will contain one of the following error codes defined in

<filename>&lt;lwres/netdb.h&gt;</filename>:

<variablelist>

<varlistentry><term><constant>HOST\_NOT\_FOUND</constant></term>

<listitem>

<para>

The host or address was not found.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>TRY\_AGAIN</constant></term>

<listitem>

<para>

A recoverable error occurred, e.g., a timeout.

Retrying the lookup may succeed.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO\_RECOVERY</constant></term>

<listitem>

<para>

A non-recoverable error occurred.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO\_DATA</constant></term>

<listitem>

<para>

The name exists, but has no address information associated with it (or vice versa in the case of a reverse lookup). The code NO\_ADDRESS is accepted as a synonym for NO\_DATA for backwards compatibility.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<citerefentry>

<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

translates these error codes to suitable error messages.

</para>

<para>

<function>lwres\_gethostent(</function>

and

<function>lwres\_gethostent\_r(</function>

always return

<type>NULL</type>.

</para>

<para>

Successful calls to <function>lwres\_gethostbyname\_r(</function> and

<function>lwres\_gethostbyaddr\_r(</function> return

<parameter>resbuf</parameter>, a pointer to the <type>struct

hostent</type> that was initialised by these functions. They return

<type>NULL</type> if the lookups fail or if <parameter>buf</parameter>



was too small to hold the list of addresses and names referenced by the `<constant>h_name</constant>`, `<constant>h_aliases</constant>`, and `<constant>h_addr_list</constant>` elements of the `<type>struct hostent</type>`. If `<parameter>buf</parameter>` was too small, both `<function>lwres_ghostbyname_r()</function>` and `<function>lwres_ghostbyaddr_r()</function>` set the global variable `<type>errno</type>` to `<errorcode>ERANGE</errorcode>`.

`</refsect1>`

`<refsect1>`

`<title>SEE ALSO</title>`

`<para>`

`<citerefentry>`

`<refentrytitle>gethostent</refentrytitle><manvolnum>3</manvolnum>`

`</citerefentry>`,

`<citerefentry>`

`<refentrytitle>lwres_getipnode</refentrytitle><manvolnum>3</manvolnum>`

`</citerefentry>`,

`<citerefentry>`

`<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3`

`</manvolnum>`

`</citerefentry>`

`</para>`

`</refsect1>`

`<refsect1>`

`<title>BUGS</title>`

`<para>`

`<function>lwres_ghostbyname()</function>`,

`<function>lwres_ghostbyname2()</function>`,

`<function>lwres_ghostbyaddr()</function>`

and

`<function>lwres_endhostent()</function>`

are not thread safe; they return pointers to static data and

provide error codes through a global variable.

Thread-safe versions for name and address lookup are provided by

`<function>lwres_ghostbyname_r()</function>`,

and

`<function>lwres_ghostbyaddr_r()</function>`

respectively.

`</para>`

`<para>`

The resolver daemon does not currently support any non-DNS

name services such as

`<filename>/etc/hosts</filename>`

or

<type>NIS</type>,

consequently the above functions don't, either.

</para>

</refsect1>

</refentry>

Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gethostent.docbook

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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/isc/eventlib.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/eventlib\_p.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/isc/misc.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/ev\_connects.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/ev\_files.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/ev\_timers.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/eventlib.c

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<!-- \$Id: lwres\_config.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_config</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_conf\_init</refname>

<refname>lwres\_conf\_clear</refname>

<refname>lwres\_conf\_parse</refname>

<refname>lwres\_conf\_print</refname>

```

<refname>lwres_conf_get</refname>
<refpurpose>lightweight resolver configuration</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
void
<function>lwres_conf_init</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_conf_clear</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *filename</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_print</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>FILE *fp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_conf_t *
<function>lwres_conf_get</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_conf_init()</function>
creates an empty
<type>lwres_conf_t</type>

```

structure for lightweight resolver context  
 <parameter>ctx</parameter>.

</para>

<para>

<function>lwres\_conf\_clear()</function>  
 frees up all the internal memory used by  
 that

<type>lwres\_conf\_t</type>  
 structure in resolver context  
 <parameter>ctx</parameter>.

</para>

<para>

<function>lwres\_conf\_parse()</function>  
 opens the file  
 <parameter>filename</parameter>  
 and parses it to initialise the resolver context  
 <parameter>ctx</parameter>'s  
 <type>lwres\_conf\_t</type>  
 structure.

</para>

<para>

<function>lwres\_conf\_print()</function>  
 prints the  
 <type>lwres\_conf\_t</type>  
 structure for resolver context  
 <parameter>ctx</parameter>  
 to the  
 <type>FILE</type>  
 <parameter>fp</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_conf\_parse()</function>  
 returns  
 <errorcode>LWRES\_R\_SUCCESS</errorcode>  
 if it successfully read and parsed  
 <parameter>filename</parameter>.

It returns  
 <errorcode>LWRES\_R\_FAILURE</errorcode>  
 if  
 <parameter>filename</parameter>  
 could not be opened or contained incorrect  
 resolver statements.

</para>

<para>

```

<function>lwres_conf_print()</function>
returns
<errorcode>LWRES_R_SUCCESS</errorcode>
unless an error occurred when converting the network addresses to a
numeric host address string.
If this happens, the function returns
<errorcode>LWRES_R_FAILURE</errorcode>.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>resolver</refentrytitle><manvolnum>5</manvolnum>
</citerefentry>.
</refsect1>
<refsect1>
<title>FILES</title>
<para>
<filename>/etc/resolv.conf</filename>
</para>
</refsect1>
</refentry>

```

Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_config.docbook

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 \*  
 \* @(#)cdefs.h 8.7 (Berkeley) 1/21/94  
 \*/

Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/aux3/include/sys/cdefs.h  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/qnx/include/sys/cdefs.h

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_data.c  
 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/resolv/res\_data.c

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*/

/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp $ */

#ifndef ISC_PLATFORM_H
#define ISC_PLATFORM_H 1

/*****
**** Platform-dependent defines.
****/

/**
*** Network.
***/

/*
* Define if this system needs the <netinet/in6.h> header file included
* for full IPv6 support (pretty much only UnixWare).
*/
@ISC_PLATFORM_NEEDNETINETIN6H@

/*
* Define if this system needs the <netinet6/in6.h> header file included
* to support in6_pkinfo (pretty much only BSD/OS).
*/
@ISC_PLATFORM_NEEDNETINET6IN6H@

/*
* If sockaddrs on this system have an sa_len field, ISC_PLATFORM_HAVESALEN
* will be defined.
*/
@ISC_PLATFORM_HAVESALEN@

```



```

/*
 * If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6
 * will be defined.
 */
@ISC_PLATFORM_HAVEIPV6@

/*
 * If this system is missing in6addr_any, ISC_PLATFORM_NEEDIN6ADDRANY will
 * be defined.
 */
@ISC_PLATFORM_NEEDIN6ADDRANY@

/*
 * If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDIN6ADDRLOOPBACK
 * will be defined.
 */
@ISC_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
 * If this system has in6_pktinfo, ISC_PLATFORM_HAVEIN6PKTINFO will be
 * defined.
 */
@ISC_PLATFORM_HAVEIN6PKTINFO@

/*
 * If this system has in_addr6, rather than in6_addr, ISC_PLATFORM_HAVEINADDR6
 * will be defined.
 */
@ISC_PLATFORM_HAVEINADDR6@

/*
 * If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.
 */
@ISC_PLATFORM_HAVESCOPEID@

/*
 * If this system needs inet_ntop(), ISC_PLATFORM_NEEDNTOP will be defined.
 */
@ISC_PLATFORM_NEEDNTOP@

/*
 * If this system needs inet_pton(), ISC_PLATFORM_NEEDPTON will be defined.
 */
@ISC_PLATFORM_NEEDPTON@

/*
 * If this system needs inet_aton(), ISC_PLATFORM_NEEDATON will be defined.
 */

```

@ISC\_PLATFORM\_NEEDATON@

/\*

\* If this system needs in\_port\_t, ISC\_PLATFORM\_NEEDPORTT will be defined.

\*/

@ISC\_PLATFORM\_NEEDPORTT@

/\*

\* If the system needs strsep(), ISC\_PLATFORM\_NEEDSTRSEP will be defined.

\*/

@ISC\_PLATFORM\_NEEDSTRSEP@

/\*

\* If the system needs strlcpy(), ISC\_PLATFORM\_NEEDSTRLCPY will be defined.

\*/

@ISC\_PLATFORM\_NEEDSTRLCPY@

/\*

\* If the system needs strlcat(), ISC\_PLATFORM\_NEEDSTRLCAT will be defined.

\*/

@ISC\_PLATFORM\_NEEDSTRLCAT@

/\*

\* Define either ISC\_PLATFORM\_BSD44MSGHDR or ISC\_PLATFORM\_BSD43MSGHDR.

\*/

@ISC\_PLATFORM\_MSGHDRFLAVOR@

/\*

\* Define if PTHREAD\_ONCE\_INIT should be surrounded by braces to

\* prevent compiler warnings (such as with gcc on Solaris 2.8).

\*/

@ISC\_PLATFORM\_BRACEPTHREADONCEINIT@

/\*

\* Define on some UnixWare systems to fix erroneous definitions of various

\* IN6\_IS\_ADDR\_\* macros.

\*/

@ISC\_PLATFORM\_FIXIN6ISADDR@

/\*\*

\*\*\* Printing.

\*\*\*

/\*

\* If this system needs vsnprintf() and snprintf(), ISC\_PLATFORM\_NEEDVSNPRINTF

\* will be defined.

\*/

@ISC\_PLATFORM\_NEEDVSNPRINTF@

```

/*
 * If this system need a modern sprintf() that returns (int) not (char*).
 */
@ISC_PLATFORM_NEEDSPRINTF@

/*
 * The printf format string modifier to use with isc_uint64_t values.
 */
@ISC_PLATFORM_QUADFORMAT@

/*
 * Defined if we are using threads.
 */
@ISC_PLATFORM_USETHREADS@

/*
 * Defined if unistd.h does not cause fd_set to be declared.
 */
@ISC_PLATFORM_NEEDSYSSELECTH@

/*
 * Type used for resource limits.
 */
@ISC_PLATFORM_RLIMITTYPE@

/*
 * Define if your compiler supports "long long int".
 */
@ISC_PLATFORM_HAVELONGLONG@

/*
 * Define if the system has struct lifconf which is a extended struct ifconf
 * for IPv6.
 */
@ISC_PLATFORM_HAVELIFCONF@

/*
 * Define if the system has struct if_laddrconf which is a extended struct
 * ifconf for IPv6.
 */
@ISC_PLATFORM_HAVEIF_LADDRCONF@

/*
 * Define if the system has struct if_laddrreq.
 */
@ISC_PLATFORM_HAVEIF_LADDRREQ@

```

```

/*
 * Used to control how extern data is linked; needed for Win32 platforms.
 */
@ISC_PLATFORM_USEDECLSPEC@

/*
 * Define if the system supports if_nametoindex.
 */
@ISC_PLATFORM_HAVEIFNAMETOINDEX@

/*
 * Define if this system needs strtoul.
 */
@ISC_PLATFORM_NEEDSTRTOUL@

/*
 * Define if this system needs memmove.
 */
@ISC_PLATFORM_NEEDMEMMOVE@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#define LIBBIND9_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#ifdef LIBISC_EXPORTS
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCC_EXPORTS
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBBIND9_EXPORTS

```

```
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif /* ISC_PLATFORM_USEDECLSPEC */
```

```
/*
```

```
* Tell emacs to use C mode for this file.
```

```
*
```

```
* Local Variables:
```

```
* mode: c
```

```
* End:
```

```
*/
```

```
#endif /* ISC_PLATFORM_H */
```

Found in path(s):

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/platform.h.in
```

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```

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```
.\"
```

```
.\" The following six UNCOMMENTED lines are required.
```

```
.\"Os OPERATING_SYSTEM [version/release]
```

```
.\"Dt DOCUMENT_TITLE [section number] [volume]
```

```
.\" The following requests should be uncommented and
```

```
.\" used where appropriate. This next request is
```

```
.\" for sections 2 and 3 function return values only.
```

```
.\" This next request is for sections 1, 6, 7 & 8 only
```

```
.\" .Sh ENVIRONMENT
```

```
.\" .Sh EXAMPLES
```

```
.\" This next request is for sections 1, 6, 7 & 8 only
```

```
.\" (command return values (to shell) and
```

```
.\"  fprintf/stderr type diagnostics)
.\" .Sh DIAGNOSTICS
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS
```

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```
-->
```

```
<!-- $Id: lwres_gabn.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->
```

```
<refentry>
```

```
<refentryinfo>
```

```
<date>Jun 30, 2000</date>
```

```
</refentryinfo>
```

```
<refmeta>
```

```
<refentrytitle>lwres_gabn</refentrytitle>
```

```
<manvolnum>3</manvolnum>
```

```
<refmiscinfo>BIND9</refmiscinfo>
```

```
</refmeta>
```

```
<refnamediv>
```

```
<refname>lwres_gabnrequest_render</refname>
```

```
<refname>lwres_gabnresponse_render</refname>
```

```
<refname>lwres_gabnrequest_parse</refname>
```

```
<refname>lwres_gabnresponse_parse</refname>
```

```

<refname>lwres_gabnresponse_free</refname>
<refname>lwres_gabnrequest_free</refname>
<refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnresponse_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_gabnresponse_free</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>

```

```

<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_gabnrequest_free</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>
<refsect1>
<title>DESCRIPTION</title>
<para>
These are low-level routines for creating and parsing
lightweight resolver name-to-address lookup request and
response messages.
</para><para>
There are four main functions for the getaddrbyname opcode.
One render function converts a getaddrbyname request structure &mdash;
<type>lwres_gabnrequest_t</type> &mdash;
to the lightweight resolver's canonical format.
It is complemented by a parse function that converts a packet in this
canonical format to a getaddrbyname request structure.
Another render function converts the getaddrbyname response structure &mdash;
<type>lwres_gabnresponse_t</type> &mdash;
to the canonical format.
This is complemented by a parse function which converts a packet in
canonical format to a getaddrbyname response structure.
</para>
<para>
These structures are defined in
<filename>&lt;lwres/lwres.h&gt;</filename>.
They are shown below.
<programlisting>
#define LWRES_OPCODE_GETADDRSBYNAME    0x00010001U

typedef struct lwres_addr lwres_addr_t;
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;

typedef struct {
    lwres_uint32_t  flags;
    lwres_uint32_t  addrtypes;
    lwres_uint16_t  namelen;
    char            *name;
} lwres_gabnrequest_t;

typedef struct {

```



```

    lwres_uint32_t    flags;
    lwres_uint16_t    naliases;
    lwres_uint16_t    naddrs;
    char              *realname;
    char              **aliases;
    lwres_uint16_t    realnamelen;
    lwres_uint16_t    *aliaslen;
    lwres_addrlist_t  addrs;
    void              *base;
    size_t            baselen;
} lwres_gabnresponse_t;

```

</programlisting>

</para>

<para>

<function>lwres\_gabnrequest\_render()</function>

uses resolver context

<parameter>ctx</parameter>

to convert getaddrbyname request structure

<parameter>req</parameter>

to canonical format.

The packet header structure

<parameter>pkt</parameter>

is initialised and transferred to

buffer

<parameter>b</parameter>.

The contents of

<parameter>\*req</parameter>

are then appended to the buffer in canonical format.

<function>lwres\_gabnresponse\_render()</function>

performs the same task, except it converts a getaddrbyname response structure

<type>lwres\_gabnresponse\_t</type>

to the lightweight resolver's canonical format.

</para>

<para>

<function>lwres\_gabnrequest\_parse()</function>

uses context

<parameter>ctx</parameter>

to convert the contents of packet

<parameter>pkt</parameter>

to a

<type>lwres\_gabnrequest\_t</type>

structure.

Buffer

<parameter>b</parameter>

provides space to be used for storing this structure.

When the function succeeds, the resulting

<type>lwres\_gabnrequest\_t</type>

is made available through

<parameter>\*structp</parameter>.

<function>lwres\_gabnresponse\_parse()</function>

offers the same semantics as

<function>lwres\_gabnrequest\_parse()</function>

except it yields a

<type>lwres\_gabnresponse\_t</type>

structure.

</para>

<para>

<function>lwres\_gabnresponse\_free()</function>

and

<function>lwres\_gabnrequest\_free()</function>

release the memory in resolver context

<parameter>ctx</parameter>

that was allocated to the

<type>lwres\_gabnresponse\_t</type>

or

<type>lwres\_gabnrequest\_t</type>

structures referenced via

<parameter>structp</parameter>.

Any memory associated with ancillary buffers and strings for those structures is also discarded.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The getaddrbyname opcode functions

<function>lwres\_gabnrequest\_render()</function>,

<function>lwres\_gabnresponse\_render()</function>

<function>lwres\_gabnrequest\_parse()</function>

and

<function>lwres\_gabnresponse\_parse()</function>

all return

<errorcode>LWRES\_R\_SUCCESS</errorcode>

on success.

They return

<errorcode>LWRES\_R\_NOMEMORY</errorcode>

if memory allocation fails.

<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>

is returned if the available space in the buffer

<parameter>b</parameter>

is too small to accommodate the packet header or the

<type>lwres\_gabnrequest\_t</type>

and

```

<type>lwres_gabnresponse_t</type>
structures.
<function>lwres_gabnrequest_parse()</function>
and
<function>lwres_gabnresponse_parse()</function>
will return
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>
if the buffer is not empty after decoding the received packet.
These functions will return
<errorcode>LWRES_R_FAILURE</errorcode>
if
<structfield>pktflags</structfield>
in the packet header structure
<type>lwres_lwpacket_t</type>
indicate that the packet is not a response to an earlier query.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_packet</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
</para>
</refsect1>
</refentry>

```

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.\" The following six UNCOMMENTED lines are required.  
.\"Os OPERATING\_SYSTEM [version/release]  
.\"Dt DOCUMENT\_TITLE [section number] [volume]  
.\" This next request is for sections 1, 6, 7 & 8 only  
.\" .Sh ENVIRONMENT  
.\" .Sh FILES  
.\" .Sh EXAMPLES  
.\" This next request is for sections 1, 6, 7 & 8 only  
.\" (command return values (to shell) and  
.\" fprintf/stderr type diagnostics)  
.\" .Sh DIAGNOSTICS  
.\" The next request is for sections 2 and 3 error  
.\" and signal handling only.  
.\" .Sh STANDARDS  
.\" .Sh HISTORY  
.\" .Sh BUGS

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.\" \$Id: lwres\_getnameinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$  
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 \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/resolv/res\_update.c  
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 * We're going to become the least open  
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 */
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sec/dst/opensslrsa\_link.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/byaddr.h  
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/entropy.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/hex.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/msgs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/getrrset.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/validator.c  
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.\"
.\" $Id: lwres_gethostent.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

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/\*

\* msg\_eventlib.c - Error messages for evlib  
\*  
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\*  
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/dbtable.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/ttl.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/ttl.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/ipv6.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/cache.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/gen-unix.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/dbiterator.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/once.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/mutexblock.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/include/dst/lib.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/unspec_103.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/lib.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/tcpmsg.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/naptr_35.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/app.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/any_255/tsig_250.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/px_26.h
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rcode.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/dir.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/rdatastructpre.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/serial.c
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/taskpool.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rootns.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/bufferlist.c

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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/lib.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/syslog.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/netdb.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/taskpool.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/keyflags.h
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/include/lwres/lwpacket.h
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/lang.h
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/base64.h
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/lib.c

- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/dir.c
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/lfsr.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/random.h
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/mutexblock.c
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/bitstring.h
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/dir.h
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/netdb.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/lib.h
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/key\_25.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/stdtime.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/tcpmsg.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/tests/include/tests/t\_api.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/resultclass.h

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/kx\_36.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/log.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/srv\_33.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdatalist.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/log.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/resolver.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/tkey\_249.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/print.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/nsec.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/print.h  
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/naptr\_35.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/db.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/keyvalues.h  
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/print\_p.h  
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Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gabn.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres.docbook  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.docbook  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gettrsetbyname.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_inetntop.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_inetntop.docbook  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gnba.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gnba.docbook  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gethostent.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_hstrerror.html

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_noop.docbook  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.docbook  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_hstrerror.docbook  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_buffer.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_getipnode.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_noop.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_packet.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_context.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_resutil.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_buffer.docbook  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_config.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_packet.docbook

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AC\_REVISION(\$Revision: 1.1 \$)

AC\_INIT(resolv/herror.c)

AC\_PREREQ(2.13)

AC\_CONFIG\_HEADER(config.h)

AC\_CANONICAL\_HOST

AC\_PROG\_MAKE\_SET

AC\_PROG\_RANLIB

AC\_PROG\_INSTALL

AC\_SUBST(STD\_CINCLUDES)

AC\_SUBST(STD\_CDEFINES)

AC\_SUBST(STD\_CWARNINGS)

AC\_SUBST(CCOPT)

```

AC_PATH_PROG(AR, ar)
ARFLAGS="cruv"
AC_SUBST(AR)
AC_SUBST(ARFLAGS)

# The POSIX ln(1) program. Non-POSIX systems may substitute
# "copy" or something.
LN=ln
AC_SUBST(LN)

case "$AR" in
  "")
    AC_MSG_ERROR([
ar program not found. Please fix your PATH to include the directory in
which ar resides, or set AR in the environment with the full path to ar.
])

    ;;
  esac

#
# Etags.
#
AC_PATH_PROGS(ETAGS, etags emacs-etags)

#
# Some systems, e.g. RH7, have the Exuberant Ctags etags instead of
# GNU emacs etags, and it requires the -L flag.
#
if test "X$ETAGS" != "X"; then
  AC_MSG_CHECKING(for Exuberant Ctags etags)
  if $ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then
    AC_MSG_RESULT(yes)
    ETAGS="$ETAGS -L"
  else
    AC_MSG_RESULT(no)
  fi
fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL, perl5 perl)
AC_SUBST(PERL)

#

```

```

# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
'${prefix}/include')
    includedir='${prefix}/bind/include'
    ;;
esac
case "$libdir" in
'${prefix}/lib')
    libdir='${prefix}/bind/lib'
    ;;
esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
case "$INSTALL" in
/*)
    ;;
*)
    #
    # Not all systems have dirname.
    #
    changequote({, })
    ac_dir="`echo $INSTALL | sed 's%/[^\/*]%%'`"
    changequote([, ])

    ac_prog="`echo $INSTALL | sed 's%.*%%'`"
    test "$ac_dir" = "$ac_prog" && ac_dir=.
    test -d "$ac_dir" && ac_dir="`cd \"$ac_dir\" && pwd`"
    INSTALL="$ac_dir/$ac_prog"
    ;;
esac

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found. The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets $CC to be something, let that override
# our change.
#
if test "X$CC" = "X" ; then

```

```

case "$host" in
*-dec-osf*)
    CC="cc"
    ;;
*-solaris*)
    # Use Sun's cc if it is available, but watch
    # out for /usr/ucb/cc; it will never be the right
    # compiler to use.
    #
    # If setting CC here fails, the AC_PROG_CC done
    # below might still find gcc.
IFS="{IFS= }"; ac_save_ifs="$IFS"; IFS=":"
for ac_dir in $PATH; do
    test -z "$ac_dir" && ac_dir=.
    case "$ac_dir" in
/usr/ucb)
        # exclude
        ;;
*)
        if test -f "$ac_dir/cc"; then
            CC="$ac_dir/cc"
            break
        fi
        ;;
    esac
done
IFS="$ac_save_ifs"
;;
*-hp-hpux*)
    CC="cc"
    ;;
mips-sgi-irix*)
    CC="cc"
    ;;
esac
fi

AC_PROG_CC

AC_HEADER_STDC

AC_CHECK_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/sockio.h sys/select.h sys/timers.h)

AC_C_CONST
AC_C_INLINE

```

```

AC_TYPE_SIZE_T
AC_HEADER_TIME
#
# check if we need to #include sys/select.h explicitly
#
case $ac_cv_header_unistd_h in
yes)
AC_MSG_CHECKING(if unistd.h defines fd_set)
AC_TRY_COMPILE([
#include <unistd.h>],
[fd_set read_set; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDSYSSELECTH="#undef ISC_PLATFORM_NEEDSYSSELECTH"
],
[AC_MSG_RESULT(no)
case ac_cv_header_sys_select_h in
yes)
ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
;;
no)
AC_MSG_ERROR([need either working unistd.h or sys/select.h])
;;
esac
])
;;
no)
case ac_cv_header_sys_select_h in
yes)
ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
;;
no)
AC_MSG_ERROR([need either unistd.h or sys/select.h])
;;
esac
;;
esac
AC_SUBST(ISC_PLATFORM_NEEDSYSSELECTH)

#
# Find the machine's endian flavor.
#
AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,[ --with-irs-gr Build ....],
want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
WANT_IRS_GR_OBJS="\${WANT_IRS_GR_OBJS}"

```

```

;;
*) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";;
esac
AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,[ --with-irs-pw Build ....],
want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
    WANT_IRS_PW_OBJS="\${WANT_IRS_PW_OBJS}";;
*) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;
esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,[ --with-irs-nis Build ....],
want_irs_nis="$withval", want_irs_nis="no")
case "$want_irs_nis" in
yes)
    WANT_IRS_NIS="#define WANT_IRS_NIS 1"
    WANT_IRS_NIS_OBJS="\${WANT_IRS_NIS_OBJS}"
    case "$want_irs_gr" in
    yes)
        WANT_IRS_NISGR_OBJS="\${WANT_IRS_NISGR_OBJS}";;
    *)
        WANT_IRS_NISGR_OBJS="";;
    esac
    case "$want_irs_pw" in
    yes)
        WANT_IRS_NISPW_OBJS="\${WANT_IRS_NISPW_OBJS}";;
    *)
        WANT_IRS_NISPW_OBJS="";;
    esac
;;
*)
    WANT_IRS_NIS="#undef WANT_IRS_NIS"
    WANT_IRS_NIS_OBJS=""
    WANT_IRS_NISGR_OBJS=""
    WANT_IRS_NISPW_OBJS="";;
esac
AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR_OBJS)
AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
#ifdef HAVE_DB_H
int have_db_h = 1;

```

```

#else
int have_db_h = 0;
#endif
main() { return(!have_db_h); }
],
WANT_IRS_DBPW_OBJS="\${WANT_IRS_DBPW_OBJS}"
,
WANT_IRS_DBPW_OBJS=""
,
WANT_IRS_DBPW_OBJS=""
)
AC_SUBST(WANT_IRS_DBPW_OBJS)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
[ --with-randomdev=PATH Specify path for random device],
use_randomdev="$withval", use_randomdev="unspec")

case "$use_randomdev" in
unspec)
case "$host" in
*-openbsd*)
devrandom=/dev/srandom
;;
*)
devrandom=/dev/random
;;
esac
AC_MSG_RESULT($devrandom)
AC_CHECK_FILE($devrandom,
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV,
"$devrandom"),)
;;
yes)
AC_MSG_ERROR([--with-randomdev must specify a path])
;;
*)
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
AC_MSG_RESULT(using "$use_randomdev")
;;
esac

#
# Begin pthreads checking.
#

```



```

# First, decide whether to use multithreading or not.
#
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
[ --disable-threads disable multithreading])
case "$enable_threads" in
yes|")
    AC_MSG_RESULT(yes)
    use_threads=true
    ;;
no)
    AC_MSG_RESULT(no)
    use_threads=false
    ;;
*)
    AC_MSG_ERROR([--enable-threads takes yes or no])
    ;;
esac

if $use_threads
then
    #
    # Search for / configure pthreads in a system-dependent fashion.
    #
    case "$host" in
        *-netbsd*)
            # NetBSD has multiple pthreads implementations. The
            # recommended one to use is "unproven-pthreads". The
            # older "mit-pthreads" may also work on some NetBSD
            # versions. The PTL2 thread library does not
            # currently work with bind9, but can be chosen with
            # the --with-ptl2 option for those who wish to
            # experiment with it.
            CC="gcc"
            AC_MSG_CHECKING(which NetBSD thread library to use)

            AC_ARG_WITH(ptl2,
[ --with-ptl2 on NetBSD, use the ptl2 thread library (experimental)],
                use_ptl2="$withval", use_ptl2="no")

            : ${LOCALBASE:=/usr/pkg}

            if test "X$use_ptl2" = "Xyes"
            then
                AC_MSG_RESULT(PTL2)
                AC_MSG_WARN(
[linking with PTL2 is highly experimental and not expected to work])
                CC=ptlgcc

```

```

else
if test ! -d $LOCALBASE/threads
then
AC_MSG_RESULT(none)
use_threads=false
fi

if $use_threads
then
AC_MSG_RESULT(mit-threads/unproven-threads)
pkg="$LOCALBASE/threads"
lib1="-L$pkg/lib -Wl,-R$pkg/lib"
lib2="-lthread -lm -lgcc -lthread"
LIBS="$lib1 $lib2 $LIBS"
CPPFLAGS="$CPPFLAGS -I$pkg/include"
STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
fi
fi
;;
*)
AC_CHECK_LIB(pthread, pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create_system,,
AC_CHECK_LIB(c_r, pthread_create,,
AC_CHECK_LIB(c, pthread_create,,
use_threads=false))))
;;
esac
fi

if $use_threads
then
#
# We'd like to use sigwait() too
#
AC_CHECK_LIB(c, sigwait,
AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, sigwait,
AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, _Psigwait,
AC_DEFINE(HAVE_SIGWAIT),))
)

AC_CHECK_FUNC(pthread_attr_getstacksize,
AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)

#
# Additional OS-specific issues related to pthreads and sigwait.

```

```

#
case "$host" in
#
# One more place to look for sigwait.
#
*-freebsd*)
    AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
    ;;
#
# BSDI 3.0 through 4.0.1 needs pthread_init() to be
# called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
*-bsdi3.*|*-bsdi4.0*)
    AC_DEFINE(NEED_PTHREAD_INIT)
    ;;
#
# LinuxThreads requires some changes to the way we
# deal with signals.
#
*-linux*)
    AC_DEFINE(HAVE_LINUXTHREADS)
    ;;
#
# Ensure the right sigwait() semantics on Solaris and make
# sure we call pthread_setconcurrency.
#
*-solaris*)
    AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
    AC_CHECK_FUNC(pthread_setconcurrency,
        AC_DEFINE(CALL_PTHREAD_SETCONCURRENCY))
    AC_DEFINE(POSIX_GETPWUID_R)
    AC_DEFINE(POSIX_GETPWNAM_R)
    AC_DEFINE(POSIX_GETGRGID_R)
    AC_DEFINE(POSIX_GETGRNAM_R)
    ;;
*hpux11*)
    AC_DEFINE(_PTHREADS_DRAFT4)
    ;;
#
# UnixWare does things its own way.
#
*-UnixWare*)
    AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)
    ;;
esac

#

```

```

# Look for sysconf to allow detection of the number of processors.
#
AC_CHECK_FUNC(sysconf, AC_DEFINE(HAVE_SYSCONF),)

if test "X$GCC" = "Xyes"; then
case "$host" in
*-freebsd*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
*-openbsd*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
;;
*-solaris*)
LIBS="$LIBS -lthread"
;;
*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
esac
else
case $host in
*-dec-osf*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
;;
*-solaris*)
CC="$CC -mt"
CCOPT="$CCOPT -mt"
;;
*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
*-UnixWare*)
CC="$CC -Kthread"
CCOPT="$CCOPT -Kthread"
;;
esac
fi
ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT_IRS_THREADSGR_OBJS="\${WANT_IRS_THREADSGR_OBJS}"
WANT_IRS_THREADSPW_OBJS="\${WANT_IRS_THREADSPW_OBJS}"
WANT_IRS_THREADS_OBJS="\${WANT_IRS_THREADS_OBJS}"
thread_dir=pthreads
else

```

```

ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT_IRS_THREADSGR_OBJS=""
WANT_IRS_THREADSPW_OBJS=""
WANT_IRS_THREADS_OBJS=""
thread_dir=nothreads
fi

AC_CHECK_FUNC(strlcat, AC_DEFINE(HAVE_STRLCAT))

AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(DO_PTHREADS)
AC_SUBST(WANT_IRS_THREADSGR_OBJS)
AC_SUBST(WANT_IRS_THREADSPW_OBJS)
AC_SUBST(WANT_IRS_THREADS_OBJS)

AC_CHECK_FUNC(if_nametoindex,
[USE_IFNAMESLINKID="#define USE_IFNAMESLINKID 1"],
[USE_IFNAMESLINKID="#undef USE_IFNAMESLINKID"])
AC_SUBST(USE_IFNAMESLINKID)

ISC_THREAD_DIR=$thread_dir
AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon,
[DAEMON_OBJS="" NEED_DAEMON="#undef NEED_DAEMON"]
,
[DAEMON_OBJS="\${DAEMON_OBJS}" NEED_DAEMON="#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJS)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep,
[STRSEP_OBJS="" NEED_STRSEP="#undef NEED_STRSEP"]
,
[STRSEP_OBJS="\${STRSEP_OBJS}" NEED_STRSEP="#define NEED_STRSEP 1"]
)
AC_SUBST(STRSEP_OBJS)
AC_SUBST(NEED_STRSEP)

AC_CHECK_FUNC(strerror, [NEED_STRERROR="#undef NEED_STRERROR"],
[NEED_STRERROR="#define NEED_STRERROR 1"])
AC_SUBST(NEED_STRERROR)

#
# flockfile is usually provided by pthreads, but we may want to use it
# even if compiled with --disable-threads.
#

```

```

AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)

#
# Indicate what the final decision was regarding threads.
#
AC_MSG_CHECKING(whether to build with threads)
if $use_threads; then
    AC_MSG_RESULT(yes)
else
    AC_MSG_RESULT(no)
fi

#
# End of pthreads stuff.
#

#
# Additional compiler settings.
#
MKDEPCC="$CC"
MKDEPCFLAGS="-M"
IRIX_DNSSEC_WARNINGS_HACK=""

if test "X$GCC" = "Xyes"; then
    STD_CWARNINGS="$STD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
else
    case $host in
        *-dec-osf*)
            CC="$CC -std"
            CCOPT="$CCOPT -std"
            MKDEPCC="$CC"
            ;;
        *-hp-hpux*)
            CC="$CC -Ae -z"
            # The version of the C compiler that constantly warns about
            # 'const' as well as alignment issues is unfortunately not
            # able to be discerned via the version of the operating
            # system, nor does cc have a version flag.
            case "`$CC +W 123 2>&1`" in
                *Unknown?option*)
                    STD_CWARNINGS="+w1"
                    ;;
                *)
                    # Turn off the pointlessly noisy warnings.
                    STD_CWARNINGS="+w1 +W 474,530"
                    ;;
            esac
            CCOPT="$CCOPT -Ae -z"

```

```

LIBS="-Wl,+vnocompatwarnings $LIBS"
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>&1 | awk """"BEGIN {colon=0; rec="";} { for (i = 0 ; i < NF; i++)
{ if (colon && a[$i]) continue; if ($i == "\\") continue; if (!colon) { rec = $i continue; } if ($i == ":") { rec = rec " : "
colon = 1 continue; } if (length(rec $i) > 76) { print rec " \\"; rec = "\\t" $i; a[$i] = 1; } else { rec = rec " " $i a[$i] = 1;
} } } END {print rec}"""" >>$TMP'
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>>$TMP'
;;
*-sgi-irix*)
STD_CWARNINGS="-fullwarn -woff 1209"
#
# Silence more than 250 instances of
# "prototyped function redeclared without prototype"
# and 11 instances of
# "variable ... was set but never used"
# from lib/dns/sec/openssl.
#
IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"
;;
*-solaris*)
MKDEPCFLAGS="-xM"
;;
*-UnixWare*)
CC="$CC -w"
;;
esac
fi

#
# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
#
case $host in
*linux*)
STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"
;;
esac

AC_SUBST(MKDEPCC)
AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

#
# NLS
#
AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS),)

#

```

```

# -lxnet buys us one big porting headache... standards, gotta love 'em.
#
# AC_CHECK_LIB(xnet, socket, ,
#   AC_CHECK_LIB(socket, socket)
#   AC_CHECK_LIB(nsl, inet_ntoa)
# )
#
# Use this for now, instead:
#
case "$host" in
  mips-sgi-irix*)
    ;;
  *)
    AC_CHECK_LIB(d4r, gethostbyname_r)
    AC_CHECK_LIB(socket, socket)
    AC_CHECK_LIB(nsl, inet_ntoa)
    ;;
esac

#
# Purify support
#
AC_MSG_CHECKING(whether to use purify)
AC_ARG_WITH(purify,
[ --with-purify[=PATH] use Rational purify],
use_purify="$withval", use_purify="no")

case "$use_purify" in
  no)
    ;;
  yes)
    AC_PATH_PROG(purify_path, purify, purify)
    ;;
  *)
    purify_path="$use_purify"
    ;;
esac

case "$use_purify" in
  no)
    AC_MSG_RESULT(no)
    PURIFY=""
    ;;
  *)
    if test -f $purify_path || test $purify_path = purify; then
      AC_MSG_RESULT($purify_path)
      PURIFYFLAGS=""echo $PURIFYOPTIONS`"
      PURIFY="$purify_path $PURIFYFLAGS"
    fi
  fi

```



```
else
    AC_MSG_ERROR([$purify_path not found.
```

Please choose the proper path with the following command:

```
    configure --with-purify=PATH
])
fi
;;
esac
```

```
AC_SUBST(PURIFY)
```

```
#
# GNU libtool support
#
AC_ARG_WITH(libtool,
    [ --with-libtool use GNU libtool (following indented options supported)],
    use_libtool="$withval", use_libtool="no")
```

```
case $use_libtool in
yes)
    AM_PROG_LIBTOOL
    O=lo
    A=la
    LIBTOOL_MKDEP_SED='s;\.o;\.lo;'
    LIBTOOL_MODE_COMPILE='--mode=compile'
    LIBTOOL_MODE_INSTALL='--mode=install'
    LIBTOOL_MODE_LINK='--mode=link'
    ;;
*)
    O=o
    A=a
    LIBTOOL=
    AC_SUBST(LIBTOOL)
    LIBTOOL_MKDEP_SED=
    LIBTOOL_MODE_COMPILE=
    LIBTOOL_MODE_INSTALL=
    LIBTOOL_MODE_LINK=
    ;;
esac
```

```
#
# File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a
```

```

AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

#
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#

#
# IPv6
#
AC_ARG_ENABLE(ipv6,
[ --enable-ipv6 use IPv6 [default=autodetect]])

case "$enable_ipv6" in
yes|"autodetect")
    AC_DEFINE(WANT_IPV6)
    ;;
no)
    ;;
esac

#
# We do the IPv6 compilation checking after libtool so that we can put
# the right suffix on the files.
#
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>],
[struct sockaddr_in6 sin6; return (0);],
[AC_MSG_RESULT(yes)
found_ipv6=yes],
[AC_MSG_RESULT(no)
found_ipv6=no])

#
# See whether IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)
AC_ARG_WITH(kame,

```

```
[ --with-kame[=PATH] use Kame IPv6 [default path /usr/local/v6]],
use_kame="$withval", use_kame="no")
```

```
case "$use_kame" in
no)
;;
yes)
kame_path=/usr/local/v6
;;
*)
kame_path="$use_kame"
;;
esac
```

```
case "$use_kame" in
no)
AC_MSG_RESULT(no)
;;
*)
if test -f $kame_path/lib/libinet6.a; then
AC_MSG_RESULT($kame_path/lib/libinet6.a)
LIBS="-L$kame_path/lib -linet6 $LIBS"
else
AC_MSG_ERROR([$kame_path/lib/libinet6.a not found.
```

Please choose the proper path with the following command:

```
configure --with-kame=PATH
])
fi
;;
esac
```

```
#
# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.
# Including it on Kame-using platforms is very bad, though, because
# Kame uses #error against direct inclusion. So include it on only
# the platform that is otherwise broken without it -- BSD/OS 4.0 through 4.1.
# This is done before the in6_pktinfo check because that's what
# netinet6/in6.h is needed for.
#
changequote({, })
case "$host" in
*-bsdi4.[01]*)
ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"
isc_netcinet6in6_hack="#include <netinet6/in6.h>"
;;
*)
```

```

ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
isc_netinet6in6_hack=""
;;
esac
changequote([, ])

#
# This is similar to the netinet6/in6.h issue.
#
case "$host" in
*-UnixWare*)
    ISC_PLATFORM_NEEDNETINET6H="#define ISC_PLATFORM_NEEDNETINET6H 1"
    ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
    isc_netinetin6_hack="#include <netinet/in6.h>"
    ;;
*)
    ISC_PLATFORM_NEEDNETINET6H="#undef ISC_PLATFORM_NEEDNETINET6H"
    ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
    isc_netinetin6_hack=""
    ;;
esac

#
# Now delve deeper into the suitability of the IPv6 support.
#
case "$found_ipv6" in
yes)
    HAS_INET6_STRUCTS="#define HAS_INET6_STRUCTS 1"

    AC_MSG_CHECKING(for in6_addr)
    AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_addr in6; return (0);],
[AC_MSG_RESULT(yes)
HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
isc_in_addr6_hack=""],
[AC_MSG_RESULT(no)
HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
isc_in_addr6_hack="#define in6_addr in_addr6"])

    AC_MSG_CHECKING(for in6addr_any)
    AC_TRY_LINK([
#include <sys/types.h>

```

```

#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
$isc_in_addr6_hack
],
[struct in6_addr in6; in6 = in6addr_any; return (0);],
[AC_MSG_RESULT(yes)
  NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"],
[AC_MSG_RESULT(no)
  NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1"])

AC_MSG_CHECKING(for sin6_scope_id in struct sockaddr_in6)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_in6 xyzy; xyzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
  result="#define HAVE_SIN6_SCOPE_ID 1"],
[AC_MSG_RESULT(no)
  result="#undef HAVE_SIN6_SCOPE_ID"])
HAVE_SIN6_SCOPE_ID="$result"

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_pktinfo xyzy; return (0);],
[AC_MSG_RESULT(yes)
  ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"],
[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
  ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"])

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack

```

```

],
[struct sockaddr_storage xyzzy; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SOCKADDR_STORAGE="#define HAVE_SOCKADDR_STORAGE 1"],
[AC_MSG_RESULT(no)
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"])
;;
no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"
;;
esac

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINETIN6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_IN_ADDR6)
AC_SUBST(NEED_IN6ADDR_ANY)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)
AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs to come after checking for a Kame add-on,
# which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_ntop(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"],

```

```

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_ntop.c"
ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"]
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_pton(0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON 1"]
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[struct in_addr in; inet_aton(0, &in); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1"]

AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)

#
# Look for a 4.4BSD-style sa_len member in struct sockaddr.
#
case "$host" in
*-dec-osf*)
# Turn on 4.4BSD style sa_len support.
AC_DEFINE(_SOCKADDR_LEN)
;;
esac

AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE([

```

```

#include <sys/types.h>
#include <sys/socket.h>],
[struct sockaddr sa; sa.sa_len = 0; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)

# HAVE_MINIMUM_IFREQ

case "$host" in
*-bsdi[2345]*) have_minimum_ifreq=yes;;
*-darwin*) have_minimum_ifreq=yes;;
*-freebsd*) have_minimum_ifreq=yes;;
*-lynxos*) have_minimum_ifreq=yes;;
*-netbsd*) have_minimum_ifreq=yes;;
*-next*) have_minimum_ifreq=yes;;
*-openbsd*) have_minimum_ifreq=yes;;
*-rhapsody*) have_minimum_ifreq=yes;;
esac

case "$have_minimum_ifreq" in
yes)
HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;
no)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
*)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
esac
AC_SUBST(HAVE_MINIMUM_IFREQ)

# PORT_DIR
PORT_DIR=port/unknown
SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"
case "$host" in
*aix3.2*) PORT_DIR="port/aix32";;
*aix4*) PORT_DIR="port/aix4";;
*aux3*) PORT_DIR="port/aux3";;
*-bsdi2*) PORT_DIR="port/bsdos2";;
*-bsdi*) PORT_DIR="port/bsdos";;
*-cygwin*) PORT_DIR="port/cygwin";;
*-darwin*) PORT_DIR="port/darwin";;
*-osf*) PORT_DIR="port/decunix";;
*-freebsd*) PORT_DIR="port/freebsd";;
*-hpux9*) PORT_DIR="port/hpux9";;

```



```

*-hpux10*) PORT_DIR="port/hpux10";;
*-hpux11*) PORT_DIR="port/hpux";;
*-irix*) PORT_DIR="port/irix";;
*-linux*) PORT_DIR="port/linux";;
*-lynxos*) PORT_DIR="port/lynxos";;
*-mpe*) PORT_DIR="port/mpe";;
*-netbsd*) PORT_DIR="port/netbsd";;
*-next*) PORT_DIR="port/next";;
*-openbsd*) PORT_DIR="port/openbsd";;
*-qnx*) PORT_DIR="port/qnx";;
*-rhapsody*) PORT_DIR="port/rhapsody";;
*-solaris2.[[01234]]*)
    BSD_COMP="#define BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
    PORT_DIR="port/solaris";;
*-solaris2.5*)
    BSD_COMP="#define BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    PORT_DIR="port/solaris";;
*-solaris2*) BSD_COMP="#define BSD_COMP 1"
    PORT_DIR="port/solaris";;
*-ultrix*) PORT_DIR="port/ultrix";;
*-sco-sysv*uw2.0*) PORT_DIR="port/unixware20";;
*-sco-sysv*uw2.1.2*) PORT_DIR="port/unixware212";;
*-sco-sysv*uw7*) PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

#
# Look for a 4.4BSD or 4.3BSD struct msghdr
#
AC_MSG_CHECKING(for struct msghdr flavor)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct msghdr msg; msg.msg_flags = 0; return (0);],
[AC_MSG_RESULT(4.4BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"],
[AC_MSG_RESULT(4.3BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"])
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

```

```

#
# Look for in_port_t.
#
AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <netinet/in.h>],
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
[AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDPORTT="#define ISC_PLATFORM_NEEDPORTT 1"])
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE([
#include <netdb.h>],
[struct addrinfo a; return (0);],
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = sethostent(0); return(0);],
[AC_MSG_RESULT(yes)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endhostent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"])
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)

AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = setnetent(0); return(0);],
[AC_MSG_RESULT(yes)

```

```

ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT")]
AC_SUBST(ISC_LWRES_SETNETENTINT)

AC_MSG_CHECKING(for int endnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endnetent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"])
AC_SUBST(ISC_LWRES_ENDNETENTINT)

AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE([
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);],
[return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"])
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE([
#include <netdb.h>],
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO"],
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"])
AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,
[ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"],
[ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"])
AC_CHECK_FUNC(getnameinfo,
[ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"],
[ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"])
AC_CHECK_FUNC(getaddrinfo,
[ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"]
AC_DEFINE(HAVE_GETADDRINFO)],
[ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)

```

```

AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
    [NEED_PSELECT="#undef NEED_PSELECT"],
    [NEED_PSELECT="#define NEED_PSELECT"])
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
    [NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
    [NEED_GETTIMEOFDAY="#define NEED_GETTIMEOFDAY 1"])
AC_SUBST(NEED_GETTIMEOFDAY)
AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
    [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [
#include <sys/param.h>
#include <sys/sysctl.h>
#include <sys/socket.h>
#ifdef NET_RT_IFLIST
found_rt_iflist
#endif
],
    [AC_MSG_RESULT(yes)
     AC_DEFINE(HAVE_IFLIST_SYSCTL)],
    [AC_MSG_RESULT(no)])

#
# Check for some other useful functions that are not ever-present.
#
AC_CHECK_FUNC(strsep,
    [ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],
    [ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,
    [ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
    [ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS print.$O"
     ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS print.c"
     ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1"])
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)

AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,

```

```

[USE_SYSEERROR_LIST="#undef USE_SYSEERROR_LIST"],
[USE_SYSEERROR_LIST="#define USE_SYSEERROR_LIST 1"])
AC_SUBST(USE_SYSEERROR_LIST)

#
# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(l)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "l"'],
[AC_MSG_RESULT(ll)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "ll"'],
[AC_MSG_RESULT(default ll)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "ll"'])
AC_SUBST(ISC_PLATFORM_QUADFORMAT)

#
# Security Stuff
#
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))

#
# for accept, recvfrom, getpeername etc.
#
AC_MSG_CHECKING(for socket length type)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, socklen_t *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T socklen_t"
AC_MSG_RESULT(socklen_t)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned int *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned int"
AC_MSG_RESULT(unsigned int)]
,
AC_TRY_COMPILE([
#include <sys/types.h>

```

```

#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned long *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned long"
AC_MSG_RESULT(unsigned long)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, long *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long)]
,
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T int"
AC_MSG_RESULT(int)
)))))
AC_SUBST(ISC_SOCKLEN_T)

AC_CHECK_FUNC(getgrouplist,
AC_TRY_COMPILE(
[#include <unistd.h>
int
getgrouplist(const char *name, int basegid, int *groups, int *ngroups) {
}
],
[return (0);],
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int
*ngroups"
,
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"
),
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
)
AC_SUBST(GETGROUPLIST_ARGS)

AC_CHECK_FUNC(setgroupent,,AC_DEFINE(NEED_SETGROUPENT))

AC_CHECK_FUNC(getnetbyaddr_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC

```

```

#define __USE_MISC
#include <netdb.h>
struct netent *
getnetbyaddr_r(long net, int type, struct netent *result, char *buffer,
int buflen) { }
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetbyaddr_r (unsigned long int, int, struct netent *,
char *, size_t, struct netent **, int *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errno"
NET_R_BAD="#define NET_R_BAD ERANGE"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS char *buf, size_t buflen"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC

```

```

#include <netdb.h>
extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"
],
AC_TRY_COMPILE(
#undef __USE_MISC
#define __USE_MISC
[#include <netdb.h>
int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
],
)
)
)
)
)
,
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
)

```



```

case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void setnetent_r(int);
],[return (0);],[
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
],
AC_TRY_COMPILE(
[
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int setnetent_r(int, struct netent_data *);
],[return (0);],[
NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
],
)
),
,
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
)
AC_SUBST(NET_R_ENT_ARGS)
AC_SUBST(NET_R_SET_RESULT)
AC_SUBST(NET_R_SET_RETURN)

```

```

AC_CHECK_FUNC(endnetent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endnetent_r (void);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) return (x)"
NET_R_END_RETURN="#define NET_R_END_RETURN int"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
)
)
)
)
,
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
)
AC_SUBST(NET_R_END_RESULT)
AC_SUBST(NET_R_END_RETURN)

AC_CHECK_FUNC(getgrnam_r,,AC_DEFINE(NEED_GETGRNAM_R))

```

```

AC_CHECK_FUNC(getgrgid_r,,AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrent_r,
AC_TRY_COMPILE(
[
#include <grp.h>
struct group *getgrent_r(struct group *grp, char *buffer,
    int buflen) { }
], [return (0);], [
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
],
)
,
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
AC_DEFINE(NEED_GETGRENTR_R)
)
AC_SUBST(GROUP_R_ARGS)
AC_SUBST(GROUP_R_BAD)
AC_SUBST(GROUP_R_OK)
AC_SUBST(GROUP_R_RETURN)

AC_CHECK_FUNC(endgrent_r,
,
GROUP_R_END_RESULT="#define GROUP_R_END_RESULT(x) /*empty*/"
GROUP_R_END_RETURN="#define GROUP_R_END_RETURN void"
GROUP_R_ENT_ARGS="#define GROUP_R_ENT_ARGS void"
AC_DEFINE(NEED_ENDGRENTR_R)
)
AC_SUBST(GROUP_R_END_RESULT)
AC_SUBST(GROUP_R_END_RETURN)
AC_SUBST(GROUP_R_ENT_ARGS)

AC_CHECK_FUNC(setgrent_r,
,
GROUP_R_SET_RESULT="#undef GROUP_R_SET_RESULT /*empty*/"
GROUP_R_SET_RETURN="#define GROUP_R_SET_RETURN void"
AC_DEFINE(NEED_SETGRENTR_R)
)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)

```

```

AC_CHECK_FUNC(gethostbyname_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct hostent *gethostbyname_r
(const char *name, struct hostent *hp, char *buf, int len, int *h_errnop) { }
],
[return (0);],
[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int gethostbyname_r(const char *name,
                    struct hostent *result,
                    struct hostent_data *hdptr);
],,
[
HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
HOST_R_BAD="#define HOST_R_BAD (-1)"
HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#define HOSTENT_DATA 1"
],
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int gethostbyname_r (const char *,
                          struct hostent *,
                          char *, size_t,
                          struct hostent **,

```

```

        int *);

],[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"
],
)))
,
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
)
AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int endhostent_r(struct hostent_data *buffer);
], ,
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
,
AC_TRY_COMPILE([

```

```

#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(struct hostent_data *ht_data);
],[[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(void);
],[[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
],
)
)
)
,
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
)
AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void sethostent_r(int flag, struct hostent_data *ht_data);],[[
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT /*empty*/"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT

```

```

#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int sethostent_r(int flag, struct hostent_data *ht_data);[],[],
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      sethostent_r (int);[],[],
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
)
)
)
,
HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"
)
AC_SUBST(HOST_R_SET_RESULT)
AC_SUBST(HOST_R_SET_RETURN)

```

```

AC_MSG_CHECKING(struct passwd element pw_class)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
],[struct passwd *pw; pw->pw_class = "";],
AC_MSG_RESULT(yes)
AC_DEFINE(HAS_PW_CLASS)
,
AC_MSG_RESULT(no)
)

```

```

AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
void
setpwent(void) { }
],
[return (0);],
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)

```

AC\_SUBST(SETPWENT\_VOID)

```
AC_TRY_COMPILE([
#include <sys/types.h>
#include <grp.h>
void
setgrent(void) {}
],
[return (0);],
SETGRENT_VOID="#define SETGRENT_VOID 1"
,
SETGRENT_VOID="#undef SETGRENT_VOID"
)
AC_SUBST(SETGRENT_VOID)
```

```
AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, int l) {}
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) {}
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
```



```

NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetgrent_r( char **, char **, char **, void **);
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS void **buf"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
NGR_R_PRIVATE="#define NGR_R_PRIVATE 1"
]
,
)
)
)
,
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
)
AC_SUBST(NGR_R_ARGS)
AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)
AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(endnetgrent_r,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) return (x)"
NGR_R_END_RETURN="#define NGR_R_END_RETURN int"
NGR_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"
,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"

```

```

NGR_R_END_RETURN="#define NGR_R_END_RETURN void"
NGR_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGRENT_R)
)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)

AC_CHECK_FUNC(setnetgrent_r,
[
case "$host" in
*bsdi*)
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
;;
*)
NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
;;
esac
]
,
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
)
AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(innetgr_r,,AC_DEFINE(NEED_INNETGR_R))

AC_CHECK_FUNC(getprotoent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct protoent *getprotoent_r(struct protoent *result,
    char *buffer, int buflen) { }
]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"

```

```

PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);

]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
PROTO_R_OK="#define PROTO_R_OK 0"
PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="#define PROTO_R_RETURN int"
]
,
)
)
,
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
)
AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)
AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)

AC_CHECK_FUNC(endprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT

```

```

#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endprotoent_r(void);
]
”
[
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS"
]
,
)
,
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/"
)
AC_SUBST(PROTO_R_END_RESULT)
AC_SUBST(PROTO_R_END_RETURN)
AC_SUBST(PROTO_R_ENT_ARGS)

AC_CHECK_FUNC(setprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      setprotoent_r __P((int));
],[],
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
,
)
,
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
)
AC_SUBST(PROTO_R_SET_RESULT)
AC_SUBST(PROTO_R_SET_RETURN)

AC_CHECK_FUNC(getpwent_r,
AC_TRY_COMPILE(
[
#include <sys/types.h>

```

```

#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) { }
]
,
[]
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
,
)
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
AC_DEFINE(NEED_GETPWENT_R)
)
AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)

AC_CHECK_FUNC(endpwent_r,
AC_TRY_COMPILE(
[
#include <pwd.h>
void endpwent_r(FILE **pwfp);
], ,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
,
)
,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#undef PASS_R_ENT_ARGS"
AC_DEFINE(NEED_ENDPWENT_R)
)

```

```

AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r,,AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))

```

```

AC_CHECK_FUNC(setpwent_r,
AC_TRY_COMPILE([
#include <pwd.h>
void setpwent_r(FILE **pwp);
], ,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
AC_TRY_COMPILE([
#include <pwd.h>
int setpwent_r(FILE **pwp);
], ,
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
)
)
,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /*empty*/"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"
AC_DEFINE(NEED_SETPWENT_R)
)
AC_SUBST(PASS_R_SET_RESULT)
AC_SUBST(PASS_R_SET_RETURN)

```

```

AC_CHECK_FUNC(getpwnam_r,,AC_DEFINE(NEED_GETPWNAM_R))
AC_CHECK_FUNC(getpwuid_r,,AC_DEFINE(NEED_GETPWUID_R))

```

```

AC_CHECK_FUNC(getservent_r,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct servent *
getservent_r(struct servent *result, char *buffer, int buflen) { }
],[return (0);],
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"

```

```

SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getservent_r (struct servent *, char *, size_t, struct servent **);
],[return (0);],
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
SERV_R_BAD="#define SERV_R_BAD ERANGE"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS char *buf, size_t buflen"
SERV_R_OK="#define SERV_R_OK (0)"
SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
SERV_R_RETURN="#define SERV_R_RETURN int"
]
,
)
)
,
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK spttr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)
AC_SUBST(SERV_R_RETURN)

AC_CHECK_FUNC(endservent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>

```

```

void endservent_r(void);
]
,
,
[
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
]
,
)
,
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
)
AC_SUBST(SERV_R_END_RESULT)
AC_SUBST(SERV_R_END_RETURN)
AC_SUBST(SERV_R_ENT_ARGS)

AC_CHECK_FUNC(setservent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      setservent_r(int);
]
,
[
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
]
,
)
,
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
)
AC_SUBST(SERV_R_SET_RESULT)
AC_SUBST(SERV_R_SET_RETURN)

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT

```



```

#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int innetgr(const char *netgroup, const char *host, const char *user, const char *domain);
]
”
[
INNETGR_ARGS="#undef INNETGR_ARGS"
]
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int innetgr(char *netgroup, char *host, char *user, char *domain);
]
”
[
INNETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"
]
,
))

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(const char *);
]
”
[
SETNETGRENT_ARGS="#undef SETNETGRENT_ARGS"
]
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC

```

```

#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(char *);
]
,,
[
SETNETGRENT_ARGS="#define SETNETGRENT_ARGS char *netgroup"
]
,
))
AC_SUBST(SETNETGRENT_ARGS)
AC_SUBST(INNETGR_ARGS)

#
# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?
#
AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
*-bsdi3.1*)
hack_shutup_sputaux=yes
;;
*-bsdi4.0*)
hack_shutup_sigwait=yes
hack_shutup_sputaux=yes
hack_shutup_in6addr_init_macros=yes
;;
*-bsdi4.1*)
hack_shutup_stdargcast=yes
;;
*-solaris2.8)
hack_shutup_pthreadonceinit=yes
hack_shutup_in6addr_init_macros=yes
;;
esac

case "$hack_shutup_pthreadonceinit" in
yes)
#
# Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.
#
ISC_PLATFORM_BRACEPTHREADONCEINIT="#define ISC_PLATFORM_BRACEPTHREADONCEINIT 1"
;;
esac

```

```

case "$hack_shutup_sigwait" in
yes)
#
# Shut up a -Wmissing-prototypes warning for sigwait().
#
AC_DEFINE(SHUTUP_SIGWAIT)
;;
esac

case "$hack_shutup_sputaux" in
yes)
#
# Shut up a -Wmissing-prototypes warning from <stdio.h>.
#
AC_DEFINE(SHUTUP_SPUTAUX)
;;
esac

case "$hack_shutup_stdargcast" in
yes)
#
# Shut up a -Wcast-qual warning from va_start().
#
AC_DEFINE(SHUTUP_STDARG_CAST)
;;
esac

case "$hack_shutup_in6addr_init_macros" in
yes)
AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
;;
esac

#
# Substitutions
#
AC_SUBST(BIND9_TOP_BUILDDIR)
BIND9_TOP_BUILDDIR=`pwd`

AC_SUBST_FILE(BIND9_INCLUDES)
BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)
BIND9_MAKE_RULES=$BIND9_TOP_BUILDDIR/make/rules

. $srcdir/../../version
BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELE

```

```
ASEVER}"
AC_SUBST(BIND9_VERSION)
```

```
AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api
```

```
AC_OUTPUT(
  make/rules
  make/mkdep
  make/includes
  Makefile
  bsd/Makefile
  dst/Makefile
  include/Makefile
  inet/Makefile
  irs/Makefile
  isc/Makefile
  nameser/Makefile
  port_after.h
  port_before.h
  resolv/Makefile
  port/Makefile
  ${PORT_DIR}/Makefile
  ${PORT_INCLUDE}/Makefile
)
```

```
# Tell Emacs to edit this file in shell mode.
# Local Variables:
# mode: sh
# End:
```

```
Found in path(s):
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/configure.in
No license file was found, but licenses were detected in source scan.
```

```
/*
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```

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\*/

Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getpwent\_r.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getprotoent\_r.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/ghostent\_r.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getnetgrent\_r.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getservent\_r.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getgrent\_r.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getnetent\_r.c

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/\*

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\*/

/\*

\* SHA-1 in C

\* By Steve Reid <steve@edmweb.com>

\* 100% Public Domain

\*

\* Test Vectors (from FIPS PUB 180-1)

\* "abc"

\* A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D

\* "abcdefghijklmnopqrstuvwxyz0123456789abcdefghijklmnopqrstuvwxyz0123456789"

\* 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1

\* A million repetitions of "a"

\* 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F

\*/

Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/sha1.c

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```

/*
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*/

```

Found in path(s):

```

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/netscope.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscconf/include/iscconf/namedconf.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/order.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/region.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/ds_43.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/dst_openssl.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/ds_43.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/ds.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/win32os.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/opcode.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/apl_42.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/order.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/apl_42.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/netscope.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/win32os.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/win32/lwconfig.c

```

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

```
<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
```

```
<!--
```

```

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```

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-->

<!-- \$Id: lwres\_getaddrinfo.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getaddrinfo</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getaddrinfo</refname>

<refname>lwres\_freeaddrinfo</refname>

<refpurpose>socket address structure to host and service name</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

int

<function>lwres\_getaddrinfo</function></funcdef>

<paramdef>const char \*hostname</paramdef>

<paramdef>const char \*servname</paramdef>

<paramdef>const struct addrinfo \*hints</paramdef>

<paramdef>struct addrinfo \*\*res</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres\_freeaddrinfo</function></funcdef>

<paramdef>struct addrinfo \*ai</paramdef>

</funcprototype>

</funcsynopsis>

<para>

If the operating system does not provide a

<type>struct addrinfo</type>,

the following structure is used:

```
<programlisting>
struct addrinfo {
    int      ai_flags;    /* AI_PASSIVE, AI_CANONNAME */
    int      ai_family;   /* PF_XXX */
    int      ai_socktype; /* SOCK_XXX */
    int      ai_protocol; /* 0 or IPPROTO_XXX for IPv4 and IPv6 */
    size_t   ai_addrlen;  /* length of ai_addr */
    char     *ai_canonname; /* canonical name for hostname */
    struct sockaddr *ai_addr; /* binary address */
    struct addrinfo *ai_next; /* next structure in linked list */
};
</programlisting>
```

</para>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_getaddrinfo()</function>

is used to get a list of IP addresses and port numbers for host

<parameter>hostname</parameter>

and service

<parameter>servname</parameter>.

The function is the lightweight resolver's implementation of

<function>getaddrinfo()</function>

as defined in RFC2133.

<parameter>hostname</parameter>

and

<parameter>servname</parameter>

are pointers to null-terminated

strings or

<type>NULL</type>.

<parameter>hostname</parameter>

is either a host name or a numeric host address string: a dotted decimal IPv4 address or an IPv6 address.

<parameter>servname</parameter>

is either a decimal port number or a service name as listed in

<filename>/etc/services</filename>.

</para>

<para>

<parameter>hints</parameter>

is an optional pointer to a



<type>struct addrinfo</type>.

This structure can be used to provide hints concerning the type of socket that the caller supports or wishes to use.

The caller can supply the following structure elements in

<parameter>\*hints</parameter>:

<variablelist>

<varlistentry><term><constant>ai\_family</constant></term>

<listitem>

<para>The protocol family that should be used.

When

<constant>ai\_family</constant>

is set to

<type>PF\_UNSPEC</type>,

it means the caller will accept any protocol family supported by the operating system.

</para></listitem></varlistentry>

<varlistentry><term><constant>ai\_socktype</constant></term>

<listitem>

<para>

denotes the type of socket &mdash;

<type>SOCK\_STREAM</type>,

<type>SOCK\_DGRAM</type>

or

<type>SOCK\_RAW</type>

&mdash; that is wanted.

When

<constant>ai\_socktype</constant>

is zero the caller will accept any socket type.

</para>

</listitem>

</varlistentry>

<varlistentry><term><constant>ai\_protocol</constant></term>

<listitem>

<para>

indicates which transport protocol is wanted: IPPROTO\_UDP or IPPROTO\_TCP.

If

<constant>ai\_protocol</constant>

is zero the caller will accept any protocol.

</para>

</listitem>

</varlistentry>

<varlistentry><term><constant>ai\_flags</constant></term>

<listitem>

<para>

Flag bits.

If the

<type>AI\_CANONNAME</type>  
 bit is set, a successful call to  
 <function>lwres\_getaddrinfo()</function>  
 will return a null-terminated string containing the canonical name  
 of the specified hostname in  
 <constant>ai\_canonname</constant>  
 of the first  
 <type>addrinfo</type>  
 structure returned.  
 Setting the  
 <type>AI\_PASSIVE</type>  
 bit indicates that the returned socket address structure is intended  
 for used in a call to  
 <citrefentry>  
 <refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>  
 </citrefentry>.

In this case, if the hostname argument is a  
 <type>NULL</type>  
 pointer, then the IP address portion of the socket  
 address structure will be set to  
 <type>INADDR\_ANY</type>  
 for an IPv4 address or  
 <type>IN6ADDR\_ANY\_INIT</type>  
 for an IPv6 address.

</para>

<para>

When

<constant>ai\_flags</constant>  
 does not set the  
 <type>AI\_PASSIVE</type>  
 bit, the returned socket address structure will be ready  
 for use in a call to  
 <citrefentry>  
 <refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>  
 </manvolnum>  
 </citrefentry>  
 for a connection-oriented protocol or  
 <citrefentry>  
 <refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>  
 </citrefentry>,

<citrefentry>  
 <refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>  
 </citrefentry>,

or

<citrefentry>

<refentrytitle>sendmsg</refentrytitle><manvolnum>2

</manvolnum>

</citerefentry>

if a connectionless protocol was chosen.

The IP address portion of the socket address structure will be set to the loopback address if

<parameter>hostname</parameter>

is a

<type>NULL</type>

pointer and

<type>AI\_PASSIVE</type>

is not set in

<constant>ai\_flags</constant>.

</para>

<para>

If

<constant>ai\_flags</constant>

is set to

<type>AI\_NUMERICHOST</type>

it indicates that

<parameter>hostname</parameter>

should be treated as a numeric string defining an IPv4 or IPv6 address and no name resolution should be attempted.

</para>

</listitem>

</varlistentry>

</variablelist>

</para>

<para>

All other elements of the <type>struct addrinfo</type> passed via <parameter>hints</parameter> must be zero.

</para>

<para>

A <parameter>hints</parameter> of <type>NULL</type> is treated as if the caller provided a <type>struct addrinfo</type> initialized to zero with <constant>ai\_family</constant> set to

<constant>PF\_UNSPEC</constant>.

</para>

<para>

After a successful call to

<function>lwres\_getaddrinfo()</function>,

<parameter>\*res</parameter>

is a pointer to a linked list of one or more

<type>addrinfo</type>

structures.

Each

<type>struct addrinfo</type>

in this list can be processed by following the

<constant>ai\_next</constant>

pointer, until a

<type>NULL</type>

pointer is encountered.

The three members

<constant>ai\_family</constant>,

<constant>ai\_socktype</constant>,

and

<constant>ai\_protocol</constant>

in each

returned

<type>addrinfo</type>

structure contain the corresponding arguments for a call to

<citerefentry>

<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>

</citerefentry>.

For each

<type>addrinfo</type>

structure in the list, the

<constant>ai\_addr</constant>

member points to a filled-in socket address structure of length

<constant>ai\_addrlen</constant>.

</para>

<para>

All of the information returned by

<function>lwres\_getaddrinfo()</function>

is dynamically allocated: the addrinfo structures, and the socket

address structures and canonical host name strings pointed to by the

<constant>addrinfo</constant> structures.

Memory allocated for the dynamically allocated structures created by

a successful call to

<function>lwres\_getaddrinfo()</function>

is released by

<function>lwres\_freeaddrinfo()</function>.

<parameter>ai</parameter>

is a pointer to a

<type>struct addrinfo</type>

created by a call to

<function>lwres\_getaddrinfo()</function>.

</para>

</refsect1>

```

<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_getaddrinfo()</function>
returns zero on success or one of the error codes listed in
<citerefentry>
<refentrytitle>gai_strerror</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
if an error occurs.
If both
<parameter>hostname</parameter>
and
<parameter>servname</parameter>
are
<type>NULL</type>
<function>lwres_getaddrinfo()</function>
returns
<errorcode>EAI_NONAME</errorcode>.

</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_gai_strerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>RFC2133</refentrytitle>
</citerefentry>,

<citerefentry>
<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

```

```

<citrefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>,

<citrefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>,

<citrefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>,

<citrefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>,

<citrefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>.
</para>

</refsect1>
</refentry>

```

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind9/getaddresses.c

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# \$Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp \$

# Search for machine-generated header files in the build tree,  
# and for normal headers in the source tree (\${top\_srcdir}).  
# We only need to look in OS-specific subdirectories for the  
# latter case, because there are no machine-generated OS-specific  
# headers.

ISC\_INCLUDES = @BIND9\_ISC\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/isc \  
-I\${top\_srcdir}/lib/isc/include \  
-I\${top\_srcdir}/lib/isc/unix/include \  
-I\${top\_srcdir}/lib/isc/@ISC\_THREAD\_DIR@/include

ISCCFG\_INCLUDES = @BIND9\_ISCCFG\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/isccfg/include

DNS\_INCLUDES = @BIND9\_DNS\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/dns/include \  
-I\${top\_srcdir}/lib/dns/sec/dst/include

OMAPI\_INCLUDES = @BIND9\_OMAPI\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/omapi/include

LWRES\_INCLUDES = @BIND9\_LWRES\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/lwres/include

TEST\_INCLUDES = \  
-I\${top\_srcdir}/lib/tests/include

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/stat.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/ifiter\_getifaddrs.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/nsec\_47.c  
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; \$Id: bindevt.mc,v 1.1 2004/11/03 01:39:06 abstine Exp \$

MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)

OutputBase = 16

MessageId=0x1

Severity=Error

Facility=Application

SymbolicName=BIND\_ERR\_MSG

Language=English

% 1

.

MessageId=0x2

Severity=Warning

Facility=Application

SymbolicName=BIND\_WARN\_MSG

Language=English

% 1

.

MessageId=0x3

Severity=Informational

Facility=Application

SymbolicName=BIND\_INFO\_MSG

Language=English

% 1

.

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*/
/*
* This is the header file for the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*
* Changed so as no longer to depend on Colin Plumb's `usual.h'
* header definitions; now uses stuff from dpkg's config.h
* - Ian Jackson <ijackson@nyx.cs.du.edu>.
* Still in the public domain.
*/

```

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/md5.h
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/aix32/include/sys/cdefs.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/hpux9/include/sys/cdefs.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/cygwin/include/sys/cdefs.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/irix/include/sys/cdefs.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/lynxos/include/sys/cdefs.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/unixware212/include/sys/cdefs.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/hpux10/include/sys/cdefs.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/next/include/sys/cdefs.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/aix4/include/sys/cdefs.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/unixware20/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/hpux/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/solaris/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/sunos/include/sys/cdefs.h  
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/nameser/ns\_sign.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/nameser/ns\_verify.c

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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/lcl\_ho.c

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<!-- \$Id: lwres\_context.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_context</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_context\_create</refname>

<refname>lwres\_context\_destroy</refname>

<refname>lwres\_context\_nextserial</refname>

<refname>lwres\_context\_initserial</refname>

<refname>lwres\_context\_freemem</refname>

<refname>lwres\_context\_allocmem</refname>

<refname>lwres\_context\_sendrecv</refname>

<refpurpose>lightweight resolver context management</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_context\_create</function></funcdef>

<paramdef>lwres\_context\_t \*\*contextp</paramdef>

<paramdef>void \*arg</paramdef>

<paramdef>lwres\_malloc\_t malloc\_function</paramdef>

<paramdef>lwres\_free\_t free\_function</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_context\_destroy</function></funcdef>

<paramdef>lwres\_context\_t \*\*contextp</paramdef>

</funcprototype>

```

<funcprototype>
<funcdef>
void
<function>lwres_context_initserial</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t serial</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_uint32_t
<function>lwres_context_nextserial</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_freemem</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>void *mem</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_allocmem</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void *
<function>lwres_context_sendrecv</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>void *sendbase</paramdef>
<paramdef>int sendlen</paramdef>
<paramdef>void *recvbase</paramdef>
<paramdef>int recvlen</paramdef>
<paramdef>int *recvd_len</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>
<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_context_create()</function>
creates a
<type>lwres_context_t</type>
structure for use in lightweight resolver operations.

```



It holds a socket and other data needed for communicating with a resolver daemon.

The new

<type>lwres\_context\_t</type>

is returned through

<parameter>contextp</parameter>,

a pointer to a

<type>lwres\_context\_t</type>

pointer. This

<type>lwres\_context\_t</type>

pointer must initially be NULL, and is modified

to point to the newly created

<type>lwres\_context\_t</type>.

</para>

<para>

When the lightweight resolver needs to perform dynamic memory allocation, it will call

<parameter>malloc\_function</parameter>

to allocate memory and

<parameter>free\_function</parameter>

to free it. If

<parameter>malloc\_function</parameter>

and

<parameter>free\_function</parameter>

are NULL, memory is allocated using

.Xr malloc 3

and

<citerefentry>

<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

It is not permitted to have a NULL

<parameter>malloc\_function</parameter>

and a non-NULL

<parameter>free\_function</parameter>

or vice versa.

<parameter>arg</parameter>

is passed as the first parameter to the memory allocation functions.

If

<parameter>malloc\_function</parameter>

and

<parameter>free\_function</parameter>

are NULL,

<parameter>arg</parameter>

is unused and should be passed as NULL.

</para>

<para>

Once memory for the structure has been allocated,  
it is initialized using

<citerefentry>

<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>

and returned via

<parameter>\*contextp</parameter>.

</para>

<para>

<function>lwres\_context\_destroy()</function>

destroys a

<type>lwres\_context\_t</type>,

closing its socket.

<parameter>contextp</parameter>

is a pointer to a pointer to the context that is to be destroyed.

The pointer will be set to NULL when the context has been destroyed.

</para>

<para>

The context holds a serial number that is used to identify resolver  
request packets and associate responses with the corresponding requests.

This serial number is controlled using

<function>lwres\_context\_initserial()</function>

and

<function>lwres\_context\_nextserial()</function>.

<function>lwres\_context\_initserial()</function>

sets the serial number for context

<parameter>\*ctx</parameter>

to

<parameter>serial</parameter>.

<function>lwres\_context\_nextserial()</function>

increments the serial number and returns the previous value.

</para>

<para>

Memory for a lightweight resolver context is allocated and freed using

<function>lwres\_context\_allocmem()</function>

and

<function>lwres\_context\_freemem()</function>.

These use whatever allocations were defined when the context was  
created with

`<function>lwres_context_create()</function>`.  
`<function>lwres_context_allocmem()</function>`  
 allocates  
`<parameter>len</parameter>`  
 bytes of memory and if successful returns a pointer to the allocated  
 storage.  
`<function>lwres_context_freemem()</function>`  
 frees  
`<parameter>len</parameter>`  
 bytes of space starting at location  
`<parameter>mem</parameter>`.

`</para>`  
`<para>`  
`<function>lwres_context_sendrecv()</function>`  
 performs I/O for the context  
`<parameter>ctx</parameter>`.

Data are read and written from the context's socket.  
 It writes data from  
`<parameter>sendbase</parameter>`  
 &mdash; typically a lightweight resolver query packet &mdash;  
 and waits for a reply which is copied to the receive buffer at  
`<parameter>recvbase</parameter>`.

The number of bytes that were written to this receive buffer is  
 returned in  
`<parameter>*recvd_len</parameter>`.

`</para>`  
`</refsect1>`  
`<refsect1>`  
`<title>RETURN VALUES</title>`  
`<para>`  
`<function>lwres_context_create()</function>`  
 returns  
`<errorcode>LWRES_R_NOMEMORY</errorcode>`  
 if memory for the  
`<type>struct lwres_context</type>`  
 could not be allocated,  
`<errorcode>LWRES_R_SUCCESS</errorcode>`  
 otherwise.

`</para>`  
`<para>`  
 Successful calls to the memory allocator  
`<function>lwres_context_allocmem()</function>`  
 return a pointer to the start of the allocated space.  
 It returns NULL if memory could not be allocated.

</para>

<para>

<errorcode>LWRES\_R\_SUCCESS</errorcode>

is returned when

<function>lwres\_context\_sendrecv()</function>

completes successfully.

<errorcode>LWRES\_R\_IOERROR</errorcode>

is returned if an I/O error occurs and

<errorcode>LWRES\_R\_TIMEOUT</errorcode>

is returned if

<function>lwres\_context\_sendrecv()</function>

times out waiting for a response.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&p>

<citerefentry>

<refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&p>

<citerefentry>

<refentrytitle>free</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>.

</para>

</refsect1>

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/dst/dst\_internal.h  
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- \* To compute the message digest of a chunk of bytes, declare an

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/lcl\_pw.c

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.\"

.\" \$Id: lwres\_hsterror.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/timer.c

- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/event.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/netaddr.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/buffer.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/a\_1.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/null\_10.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/soa\_6.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/proforma.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/timer.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/lex.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/socket.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/region.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/hinfo\_13.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/opt\_41.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/txt\_16.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/pthreads/include/isc/mutex.h

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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/ctl\_p.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_cidr\_pton.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/ctl\_srvr.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/resolv/res\_mkupdate.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_cidr\_ntop.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/isc/ctl.h

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<!-- \$Id: lwres\_resutil.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_resutil</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_string\_parse</refname>

<refname>lwres\_addr\_parse</refname>

<refname>lwres\_getaddrsbyname</refname>

<refname>lwres\_getnamebyaddr</refname>

<refpurpose>lightweight resolver utility functions</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_string\_parse</function></funcdef>

<paramdef>lwres\_buffer\_t \*b</paramdef>

<paramdef>char \*\*c</paramdef>

<paramdef>lwres\_uint16\_t \*len</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

```

lwres_result_t
<function>lwres_addr_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_addr_t *addr</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getaddrbyname</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *name</paramdef>
<paramdef>lwres_uint32_t addrtypes</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getnamebyaddr</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t addrtype</paramdef>
<paramdef>lwres_uint16_t addrlen</paramdef>
<paramdef>const unsigned char *addr</paramdef>
<paramdef>lwres_gnbaresponse_t **structp</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>

```

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_string\_parse()</function> retrieves a DNS-encoded string starting the current pointer of lightweight resolver buffer <parameter>b</parameter>; i.e. <constant>b-&gt;current</constant>. When the function returns, the address of the first byte of the encoded string is returned via <parameter>\*c</parameter> and the length of that string is given by <parameter>\*len</parameter>. The buffer's current pointer is advanced to point at the character following the string length, the encoded string, and the trailing <type>NULL</type> character.

</para>

<para>

<function>lwres\_addr\_parse()</function> extracts an address from the buffer <parameter>b</parameter>. The buffer's current pointer <constant>b-&gt;current</constant> is presumed to point at an encoded address: the address preceded by a 32-bit protocol family identifier and a 16-bit length field. The encoded address is copied to

<constant>addr-&gt;address</constant> and  
<constant>addr-&gt;length</constant> indicates the size in bytes of  
the address that was copied. <constant>b-&gt;current</constant> is  
advanced to point at the next byte of available data in the buffer  
following the encoded address.  
</para>

<para>  
<function>lwres\_getaddrbyname()</function>  
and  
<function>lwres\_getnamebyaddr()</function>  
use the  
<type>lwres\_gnbaresponse\_t</type>  
structure defined below:

<programlisting>  
typedef struct {  
 lwres\_uint32\_t flags;  
 lwres\_uint16\_t naliases;  
 lwres\_uint16\_t naddrs;  
 char \*realname;  
 char \*\*aliases;  
 lwres\_uint16\_t realnamelen;  
 lwres\_uint16\_t \*aliaslen;  
 lwres\_addrlist\_t addrs;  
 void \*base;  
 size\_t baselen;  
} lwres\_gabnresponse\_t;  
</programlisting>

The contents of this structure are not manipulated directly but  
they are controlled through the

<citerefentry>  
<refentrytitle>lwres\_gabn</refentrytitle><manvolnum>3  
</manvolnum>  
</citerefentry>  
functions.  
</para>

<para>  
The lightweight resolver uses  
<function>lwres\_getaddrbyname()</function> to perform forward lookups.  
Hostname <parameter>name</parameter> is looked up using the resolver  
context <parameter>ctx</parameter> for memory allocation.  
<parameter>addrtypes</parameter> is a bitmask indicating which type of  
addresses are to be looked up. Current values for this bitmask are  
<type>LWRES\_ADDRTYPE\_V4</type> for IPv4 addresses and  
<type>LWRES\_ADDRTYPE\_V6</type> for IPv6 addresses. Results of the  
lookup are returned in <parameter>\*structp</parameter>.  
</para>

<para>  
<function>lwres\_getnamebyaddr()</function> performs reverse lookups.  
Resolver context <parameter>ctx</parameter> is used for memory  
allocation. The address type is indicated by  
<parameter>addrtype</parameter>: <type>LWRES\_ADDRTYPE\_V4</type> or  
<type>LWRES\_ADDRTYPE\_V6</type>. The address to be looked up is given  
by <parameter>addr</parameter> and its length is  
<parameter>addrlen</parameter> bytes. The result of the function call  
is made available through <parameter>\*structp</parameter>.  
</para>  
</refsect1>

<refsect1>  
<title>RETURN VALUES</title>  
<para>  
Successful calls to  
<function>lwres\_string\_parse()</function>  
and  
<function>lwres\_addr\_parse()</function>  
return  
<errorcode>LWRES\_R\_SUCCESS.</errorcode>  
Both functions return  
<errorcode>LWRES\_R\_FAILURE</errorcode>  
if the buffer is corrupt or  
<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>  
if the buffer has less space than expected for the components of the  
encoded string or address.

</para>  
<para>  
<function>lwres\_getaddrsbyname()</function>  
returns  
<errorcode>LWRES\_R\_SUCCESS</errorcode>  
on success and it returns  
<errorcode>LWRES\_R\_NOTFOUND</errorcode>  
if the hostname  
<parameter>name</parameter>  
could not be found.  
</para>  
<para>  
<errorcode>LWRES\_R\_SUCCESS</errorcode>  
is returned by a successful call to  
<function>lwres\_getnamebyaddr()</function>.  
</para>

<para>  
Both  
<function>lwres\_getaddrsbyname()</function>



and  
<function>lwres\_getnamebyaddr()</function>  
return  
<errorcode>LWRES\_R\_NOMEMORY</errorcode>  
when memory allocation requests fail and  
<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>  
if the buffers used for sending queries and receiving replies are too  
small.  
</para>

</refsect1>  
<refsect1>  
<title>SEE ALSO</title>  
<para>  
<citerefentry>  
<refentrytitle>lwres\_buffer</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>,  
  
<citerefentry>  
<refentrytitle>lwres\_gabn</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>.  
</para>

</refsect1>  
</refentry>

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/darwin/include/sys/bitypes.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/irp\_p.h

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\* BINOS specific changes to associate memcluster with an evctx

\*

\* March 2014, Aswin Kuppusami

\*/

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/memcluster\_p.h

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/nis\_gr.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/lcl\_gr.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/lcl\_nw.c  
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.\" \$Id: lwres\_inetntop.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$  
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_inetntop.3

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/dlv\_65323.c

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<!-- \$Id: lwres\_getipnode.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getipnode</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getipnodebyname</refname>

<refname>lwres\_getipnodebyaddr</refname>

<refname>lwres\_freehostent</refname>

```

<refpurpose>lightweight resolver nodename / address translation API</refpurpose>
</refnamediv>
<refsynopsisdiv>
<functsynopsis>
<functsynopsisinfo>#include <lwres/netdb.h></functsynopsisinfo>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_getipnodebyname</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
<paramdef>int flags</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_getipnodebyaddr</function></funcdef>
<paramdef>const void *src</paramdef>
<paramdef>size_t len</paramdef>
<paramdef>int af</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freehostent</function></funcdef>
<paramdef>struct hostent *he</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>

```

```

<refsect1>
<title>DESCRIPTION</title>

```

```

<para>
These functions perform thread safe, protocol independent
nodename-to-address and address-to-nodename
translation as defined in RFC2553.
</para>

```

```

<para>
They use a
<type>struct hostent</type>
which is defined in
<filename>namedb.h</filename>:
<programlisting>
struct hostent {

```

```

    char  *h_name;    /* official name of host */
    char  **h_aliases; /* alias list */
    int   h_addrtype; /* host address type */
    int   h_length;   /* length of address */
    char  **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
</programlisting>
</para>

```

<para>

The members of this structure are:

<variablelist>

<varlistentry><term><constant>h\_name</constant></term>

<listitem>

<para>

The official (canonical) name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addrtype</constant></term>

<listitem>

<para>

The type of address being returned - usually

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addr\_list</constant></term>

<listitem>

<para>

A

<type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.



</para>  
</listitem></varlistentry>  
</variablelist>  
</para>  
<para>  
<function>lwres\_getipnodebyname()</function>  
looks up addresses of protocol family  
<parameter>af</parameter>

for the hostname  
<parameter>name</parameter>.

The  
<parameter>flags</parameter>  
parameter contains ORed flag bits to  
specify the types of addresses that are searched  
for, and the types of addresses that are returned.  
The flag bits are:

<variablelist>  
<varlistentry><term><constant>AI\_V4MAPPED</constant></term>  
<listitem>

<para>  
This is used with an  
<parameter>af</parameter>  
of AF\_INET6, and causes IPv4 addresses to be returned as IPv4-mapped  
IPv6 addresses.

</para>  
</listitem></varlistentry>  
<varlistentry><term><constant>AI\_ALL</constant></term>  
<listitem>

<para>  
This is used with an  
<parameter>af</parameter>  
of AF\_INET6, and causes all known addresses (IPv6 and IPv4) to be returned.  
If AI\_V4MAPPED is also set, the IPv4 addresses are return as mapped  
IPv6 addresses.

</para>  
</listitem></varlistentry>  
<varlistentry><term><constant>AI\_ADDRCONFIG</constant></term>  
<listitem>

<para>  
Only return an IPv6 or IPv4 address if here is an active network  
interface of that type. This is not currently implemented  
in the BIND 9 lightweight resolver, and the flag is ignored.

</para>  
</listitem></varlistentry>  
<varlistentry><term><constant>AI\_DEFAULT</constant></term>  
<listitem>

<para>  
This default sets the  
<constant>AI\_V4MAPPED</constant>  
and  
<constant>AI\_ADDRCONFIG</constant>  
flag bits.  
</para>  
</listitem></varlistentry>  
</variablelist>  
</para>  
<para>  
<function>lwres\_getipnodebyaddr()</function>  
performs a reverse lookup  
of address  
<parameter>src</parameter>  
which is  
<parameter>len</parameter>  
bytes long.  
<parameter>af</parameter>  
denotes the protocol family, typically  
<type>PF\_INET</type>  
or  
<type>PF\_INET6</type>.

</para>  
<para>  
<function>lwres\_freehostent()</function>  
releases all the memory associated with  
the  
<type>struct hostent</type>  
pointer  
<parameter>he</parameter>.

Any memory allocated for the  
<constant>h\_name</constant>,

<constant>h\_addr\_list</constant>  
and  
<constant>h\_aliases</constant>  
is freed, as is the memory for the  
<type>hostent</type>  
structure itself.

</para>  
</refsect1>  
<refsect1>  
<title>RETURN VALUES</title>

<para>  
If an error occurs,

<function>lwres\_getipnodebyname()</function>  
 and  
 <function>lwres\_getipnodebyaddr()</function>  
 set  
 <parameter>\*error\_num</parameter>  
 to an appropriate error code and the function returns a  
 <type>NULL</type>  
 pointer.  
 The error codes and their meanings are defined in  
 <filename>&lt;lwres/netdb.h&gt;</filename>:  
 <variablelist>  
 <varlistentry><term><constant>HOST\_NOT\_FOUND</constant></term>  
 <listitem>  
 <para>  
 No such host is known.  
 </para>  
 </listitem></varlistentry>  
 <varlistentry><term><constant>NO\_ADDRESS</constant></term>  
 <listitem>  
 <para>  
 The server recognised the request and the name but no address is  
 available. Another type of request to the name server for the  
 domain might return an answer.  
 </para>  
 </listitem></varlistentry>  
 <varlistentry><term><constant>TRY\_AGAIN</constant></term>  
 <listitem>  
 <para>  
 A temporary and possibly transient error occurred, such as a  
 failure of a server to respond. The request may succeed if  
 retried.  
 </para>  
 </listitem></varlistentry>  
 <varlistentry><term><constant>NO\_RECOVERY</constant></term>  
 <listitem>  
 <para>  
 An unexpected failure occurred, and retrying the request  
 is pointless.  
 </para>  
 </listitem></varlistentry>  
 </variablelist>  
 </para>  
 <para>  
 <citerefentry>  
 <refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3  
 </manvolnum>  
 </citerefentry>  
 translates these error codes to suitable error messages.

```

</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>RFC2553</refentrytitle>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_gethostent</refentrytitle><manvolnum>3</manvolnum>
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<citerefentry>
<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_getnameinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>
</refsect1>
</refentry>

```

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.\" \$Id: lwres\_packet.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/cert\_37.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/message.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/zone.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/ncache.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/adb.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/cache.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/dispatch.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/view.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/net.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/net.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/dnssec.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/nxt\_30.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/master.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/sig\_24.c

- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/interfaceiter.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/sockaddr.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/log.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/types.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/tkey\_249.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rbt.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/loc\_29.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/message.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/app.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/net.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/tests/t\_api.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/db.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/getipnode.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/dispatch.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/xfrin.c
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/zone.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/key\_25.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdataslab.c
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/masterdump.c
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/rdataset.h
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/a6\_38.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/random.c

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```
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/\* \$Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp \$ \*/

#ifndef LWRES\_PLATFORM\_H  
#define LWRES\_PLATFORM\_H 1

/\*  
\*\*\*\* Platform-dependent defines.  
\*\*\*\*/

/\*  
\*\*\* Network.  
\*\*\*/

/\*  
\* Define if this system needs the <netinet/in6.h> header file for IPv6.  
\*/  
@LWRES\_PLATFORM\_NEEDNETINETIN6H@

/\*  
\* Define if this system needs the <netinet6/in6.h> header file for IPv6.  
\*/  
@LWRES\_PLATFORM\_NEEDNETINET6IN6H@

/\*  
\* If sockaddrs on this system have an sa\_len field, LWRES\_PLATFORM\_HAVESALEN  
\* will be defined.  
\*/  
@LWRES\_PLATFORM\_HAVESALEN@

/\*  
\* If this system has the IPv6 structure definitions, LWRES\_PLATFORM\_HAVEIPV6  
\* will be defined.  
\*/  
@LWRES\_PLATFORM\_HAVEIPV6@

/\*  
\* If this system is missing in6addr\_any, LWRES\_PLATFORM\_NEEDIN6ADDRANY will

```

* be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback,
* LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
* If this system has in_addr6, rather than in6_addr,
* LWRES_PLATFORM_HAVEINADDR6 will be defined.
*/
@LWRES_PLATFORM_HAVEINADDR6@

/*
* Defined if unistd.h does not cause fd_set to be declared.
*/
@LWRES_PLATFORM_NEEDSYSSELECTH@

/*
* Used to control how extern data is linked; needed for Win32 platforms.
*/
@LWRES_PLATFORM_USEDECLSPEC@

/*
* Defined this system needs vsnprintf() and snprintf().
*/
@LWRES_PLATFORM_NEEDVSNPRINTF@

/*
* If this system need a modern sprintf() that returns (int) not (char*).
*/
@LWRES_PLATFORM_NEEDSPRINTF@

#ifndef LWRES_PLATFORM_USEDECLSPEC
#define LIBLWRES_EXTERNAL_DATA
#else
#ifdef LIBLWRES_EXPORTS
#define LIBLWRES_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBLWRES_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif

#endif /* LWRES_PLATFORM_H */

```

Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/include/lwres/platform.h.in

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/bsd/daemon.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/bsd/strsep.c

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sec/dst/gssapi\_link.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/unix/include/lwres/net.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/iscconf/include/iscconf/cfg.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/threads/mutex.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/errno2result.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sec/dst/include/dst/dst.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/errno2result.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/entropy.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/os.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/file.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/ipv6.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/fsaccess.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/lwres\_gnba.c

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/\*

\* eventlib.em

\*

\* Eventlib error message compiler input file

```

*
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*/

/*
* The file basename is the facility name, the name is made
* uppercase. This file defines facility EVENTLIB
*/
module {
    description "EVENTLIB system messages";
}

errmsg HISTSUMM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
    arg {
        "int" dispatch_time "event dispatch time";
        "int" elapsed_time "event elapsed time";
        "int" hog_detected "event hog detected";
        "int" set_count "event set count since dispatch"
    }
    explanation
        "Eventlib historical summary for detected hog.";

    action
        "This event summary is part of a CPUHOG or TIMEHOG error, "
        "providing diagnostic details useful to engineering. "
        "Save this summary message along with the HOG error. ";

    tac_details
        "Eventlib historical summary for detected hog.";
}

errmsg HISTELEM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "elem[%u] event: %s %s set: %llums unset: %llums hog check: %d caller: %p app-info: %s";

    arg {
        "int" set_count "element set count";
        "char *" position_string "event call type";
        "char *" position_string "event condition";
    }
}

```

```

"int" set_time "element set time";
"int" unset_time "element unset time";
"int" hog_check "element hog check result";
"int" caller "caller builtin return address";
"char *" any_string "element callback render buffer";
    }
    explanation
        "Eventlib historical element for detected hog.";

    action
        "This event element is part of a CPUHOG or TIMEHOG error, "
        "providing diagnostic details useful to engineering. "
        "Save all element messages along with the HOG error. ";

    tac_details
        "Eventlib historical element for detected hog.";
}

```

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```

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/eventlib.em
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```

```

/*-----
* eventlib definitions specific to binos
*
* January 2007, Vikram Visweswaraiah
*
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*-----
*/

```

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```

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```

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.\" \$Id: lwres\_context.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$  
.\"

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sec/dst/openssldh\_link.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sec/dst/dst\_parse.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sec/dst/hmac\_link.c

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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/soa.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/forward.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/os.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/timer\_p.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/hmacmd5.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/resource.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdatalist\_p.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/timer.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/lwres\_grbn.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/gai\_strerror.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/file.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/include/lwres/int.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/fsaccess.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/forward.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/win32/include/lwres/int.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/errno2result.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/include/lwres/netdb.h.in
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/lwres\_noop.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/os.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/include/lwres/lang.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/diff.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/sdb.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/quota.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/task\_p.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/offset.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/ondestroy.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/stats.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/keyboard.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/lwresutil.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/nothreads/thread.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/ondestroy.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sec/dst/include/dst/gssapi.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/nothreads/include/isc/once.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/keyboard.c
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/stdio.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/entropy.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/win32/bindevt/bindevt.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/nothreads/include/isc/mutex.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/ntpaths.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/keyboard.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/errno2result.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/lookup.h

- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/include/lwres/ipv6.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/nothreads/mutex.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/unistd.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/nothreads/include/isc/condition.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/win32/include/lwres/platform.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/win32/include/lwres/net.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/lwbuffer.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sec/dst/gssapictx.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/socket\_p.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/stdio.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/resource.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/resource.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/lwpacket.c
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- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/win32/include/lwres/netdb.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/context\_p.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/keyboard.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/include/lwres/context.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/include/lwres/lwres.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/keytable.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/timer.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/fsaccess.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/hmacmd5.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/assert\_p.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/formatcheck.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/netdb.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/quota.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/stdio.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/version.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/keytable.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/lwres\_gabn.c
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/nothreads/include/isc/thread.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/hex.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/fsaccess.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/include/lwres/result.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/offset.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/bit.h
- \* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/gethost.c

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Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/platform.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/win32/DLLMain.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/iscconf/win32/DLLMain.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/ntpaths.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/ntgroups.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/version.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind9/include/bind9/check.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/strerror.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/DLLMain.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind9/win32/DLLMain.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/bind\_registry.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/include/lwres/version.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind9/version.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind9/include/bind9/getaddresses.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/version.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind9/include/bind9/version.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/version.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/iscconf/include/iscconf/version.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/iscconf/include/iscconf/log.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/ntgroups.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/version.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/bindevt.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/DLLMain.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/strerror.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/solaris/include/sys/bitypes.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/zonekey.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/strerror.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/win32/DLLMain.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/iscconf/log.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sec/dst/key.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/syslog.c  
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/nameser/ns\_date.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/resolv/res\_findzonecut.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/irp.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/resolv/res\_debug.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/sco42/include/sys/un.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/isc/irpmarshall.h

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/rwlock.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/rwlock.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/time.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/result.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/mx\_15.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/task.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/result.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/time.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/base64.c

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```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/hex.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gai_strerror.c
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.\"
.\" $Id: lwres_config.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found in path(s):

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_config.3
```

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.\" $Id: eventlib.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
.\"
```



```

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```
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```

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```

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-->

```

```
<!-- $Id: lwres_getrrsetbyname.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->
```

```

<refentry>
<refentryinfo>

```

```

<date>Oct 18, 2000</date>
</refentryinfo>
<refmeta>
<refentrytitle>lwres_getrrsetbyname</refentrytitle>

```

```

<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
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<refname>lwres_getrrsetbyname</refname>
<refname>lwres_freerrset</refname>
<refpurpose>retrieve DNS records</refpurpose>
</refnamediv>
<refsynopsisdiv>
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<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
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<function>lwres_getrrsetbyname</function></funcdef>
<paramdef>const char *hostname</paramdef>
<paramdef>unsigned int rdclass</paramdef>
<paramdef>unsigned int rdtype</paramdef>
<paramdef>unsigned int flags</paramdef>
<paramdef>struct rrsetinfo **res</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freerrset</function></funcdef>
<paramdef>struct rrsetinfo *rrset</paramdef>
</funcprototype>
</funcsynopsis>

```

<para>

The following structures are used:

<programlisting>

```

struct rdatainfo {
    unsigned int    rdi_length;    /* length of data */
    unsigned char   *rdi_data;    /* record data */
};

struct rrsetinfo {
    unsigned int    rri_flags;    /* RRSET_VALIDATED... */
    unsigned int    rri_rdclass;  /* class number */
    unsigned int    rri_rdtype;   /* RR type number */
    unsigned int    rri_ttl;      /* time to live */
    unsigned int    rri_nrdatas;   /* size of rdatas array */
    unsigned int    rri_nsigs;    /* size of sigs array */
    char            *rri_name;     /* canonical name */
    struct rdatainfo *rri_rdatas; /* individual records */
    struct rdatainfo *rri_sigs;   /* individual signatures */
};

```

</programlisting>

</para>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_getrrsetbyname()</function>

gets a set of resource records associated with a

<parameter>hostname</parameter>,

<parameter>class</parameter>,

and

<parameter>type</parameter>.

<parameter>hostname</parameter>

is

a pointer to a null-terminated string. The

<parameter>flags</parameter>

field is currently unused and must be zero.

</para>

<para>

After a successful call to

<function>lwres\_getrrsetbyname()</function>,

<parameter>\*res</parameter>

is a pointer to an

<type>rrsetinfo</type>

structure, containing a list of one or more

<type>rdatainfo</type>

structures containing resource records and potentially another list of

<type>rdatainfo</type>

structures containing SIG resource records

associated with those records.

The members

<constant>rri\_rdclass</constant>

and

<constant>rri\_rdtype</constant>

are copied from the parameters.

<constant>rri\_ttl</constant>

and

<constant>rri\_name</constant>

are properties of the obtained rrset.

The resource records contained in

<constant>rri\_rdatas</constant>

and

<constant>rri\_sigs</constant>

are in uncompressed DNS wire format.

Properties of the rdataset are represented in the

<constant>rri\_flags</constant>

bitfield. If the RRSET\_VALIDATED bit is set, the data has been DNSSEC validated and the signatures verified.

</para>

<para>

All of the information returned by

<function>lwres\_getrrsetbyname()</function>

is dynamically allocated: the

<constant>rrsetinfo</constant>

and

<constant>rdatainfo</constant>

structures,

and the canonical host name strings pointed to by the

<constant>rrsetinfo</constant>structure.

Memory allocated for the dynamically allocated structures created by a successful call to

<function>lwres\_getrrsetbyname()</function>

is released by

<function>lwres\_freerrset()</function>.

<parameter>rrset</parameter>

is a pointer to a

<type>struct rrset</type>

created by a call to

<function>lwres\_getrrsetbyname()</function>.

</para>

<para>

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_getrrsetbyname()</function>

returns zero on success, and one of the following error codes if an error occurred:

<variablelist>

<varlistentry><term><constant>ERRSET\_NONAME</constant></term>

<listitem><para>

the name does not exist

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_NODATA</constant></term>

<listitem><para>

the name exists, but does not have data of the desired type

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_NOMEMORY</constant></term>

<listitem><para>

memory could not be allocated

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_INVAL</constant></term>

<listitem><para>

a parameter is invalid

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_FAIL</constant></term>

<listitem><para>

other failure

</para></listitem></varlistentry>

<varlistentry><term><constant></constant></term>

<listitem><para>

</para></listitem></varlistentry>

</variablelist>

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_getrrsetbyname.docbook

# 1.139 procps 3.3.15

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

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Version 3, 29 June 2007

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

## Preamble

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

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free

software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so

that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object



file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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#### END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>  
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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

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

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

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

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

That's all there is to it!  
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@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License  
@center Version 2.1, February 1999

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@appendixsubsec Preamble

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it too, but we suggest you first think carefully about whether this  
license or the ordinary General Public License is the better strategy to  
use in any particular case, based on the explanations below.

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

To protect your rights, we need to make restrictions that forbid  
distributors to deny you these rights or to ask you to surrender these  
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For example, if you distribute copies of the library, whether gratis  
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library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end ifinfo

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

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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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If such an object file uses only numerical parameters, data 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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@page

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# 1.142 xz-libs 5.2.4

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

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

\*

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

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

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

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

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

\* and spelling mistakes.

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

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

\* re-established. (put back CFG\_PHYIE)

\*

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

\*

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

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

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

\* see init\_nicstar() for PHY initialization to change this. This driver

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

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

\*

\* Implementing minimal-copy of received data:

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

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

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

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

\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

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

\* buffers. This is done by 2 things:

\* 1) skb->destructor / skb->atm.recycle\_buffer

\* combined, allow nicstar\_free\_rx\_skb to be called to

\* recycle large data buffers

\* 2) skb\_clone of received buffers

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation

\* details.

\*

\*

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 \*  
 \* M. Welsh, 6 July 1996  
 \*  
 \*  
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## 1.144 strace 5.8 r0

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## 1.148 click 7.1.2 r0

### 1.148.1 Available under license :

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.. \_contrib:

```
=====
click-contrib
=====
```

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib\_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. \_click-contrib: <https://github.com/click-contrib/>

Found in path(s):

\* /opt/cola/permits/1308206668\_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/docs/contrib.rst

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\* /opt/cola/permits/1308206668\_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/tests/test\_formatting.py

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# binary only, patch it back to the system, and then use a wrapper

Found in path(s):

\* /opt/cola/permits/1308206668\_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/\_compat.py

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```
import io
```

```
import re
```

```
from setuptools import find_packages
```

```
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
```

```
    readme = f.read()
```

```
with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
```

```
    version = re.search(r'__version__ = "(.*?)"', f.read()).group(1)
```

```
setup(
```

```
    name="click",
```

```
    version=version,
```

```
    url="https://palletsprojects.com/p/click/",
```

```
    project_urls={
```

```
        "Documentation": "https://click.palletsprojects.com/",
```

```
        "Code": "https://github.com/pallets/click",
```

```
        "Issue tracker": "https://github.com/pallets/click/issues",
```

```
    },
```

```
    license="BSD-3-Clause",
```

```
    maintainer="Pallets",
```

```
    maintainer_email="contact@palletsprojects.com",
```

```
    description="Composable command line interface toolkit",
```

```
    long_description=readme,
```

```
    packages=find_packages("src"),
```

```
    package_dir={"": "src"},
```

```
    include_package_data=True,
```

```
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
```

```
    classifiers=[
```

```
        "Development Status :: 5 - Production/Stable",
```

```
        "Intended Audience :: Developers",
```

```
        "License :: OSI Approved :: BSD License",
```

```
        "Operating System :: OS Independent",
```

```
        "Programming Language :: Python",
```

```
        "Programming Language :: Python :: 2",
```

```
        "Programming Language :: Python :: 3",
```

```
    ],
```

```
)
```



Found in path(s):

\* /opt/cola/permits/1308206668\_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/setup.py

# 1.149 acpid 2.0.32 r0

## 1.149.1 Available under license :

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Version 2, June 1991

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/\* compr1c.h --

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Markus F.X.J. Oberhumer  
<markus@oberhumer.com>  
<http://www.oberhumer.com/opensource/lzo/>  
\*/

```
#define LZO_NEED_DICT_H 1
#include "config1c.h"
```

```
#if !defined(COMPRESS_ID)
#define COMPRESS_ID LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif
```

```
#include "lzo1b_c.ch"
```

```
/*
//
***/
```

```
#define LZO_COMPRESS \
LZO_PP_ECONCAT3(lzo1c_,COMPRESS_ID,_compress)
```

```
#define LZO_COMPRESS_FUNC \
LZO_PP_ECONCAT3(_lzo1c_,COMPRESS_ID,_compress_func)
```

```
/*
```

```
//
*****

const lzo_compress_t LZO_COMPRESS_FUNC = do_compress;

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in, lzo_uint in_len,
                lzo_bytep out, lzo_uintp out_len,
                lzo_voidp wrkmem )
{
    return _lzo1c_do_compress(in,in_len,out,out_len,wrkmem,do_compress);
}

/* vim:set ts=4 sw=4 et: */
```

# 1.154 d-bus 1.12.8

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## 1.158 netkit-telnet 0.17 r0

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- IDEA is no longer included, its use is deprecated
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- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

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- \* @version 3.0 (December 2000)

- \*

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\*  
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# 1.164 cryptography 3.2 r0

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# 1.165 zlib 1.2.7

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# 1.166 markupsafe 1.1.1 r0

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Found in path(s):

\* /opt/cola/permits/1294739436\_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/README.rst

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Metadata-Version: 1.2

Name: MarkupSafe

Version: 1.1.1

Summary: Safely add untrusted strings to HTML/XML markup.

Home-page: <https://palletsprojects.com/p/markupsafe/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: The Pallets Team

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Documentation, <https://markupsafe.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/markupsafe>

Project-URL: Issue tracker, <https://github.com/pallets/markupsafe/issues>

Description: MarkupSafe

=====

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing

-----

Install and update using `pip`\_:

.. code-block:: text

```
pip install -U MarkupSafe
```

.. \_pip: <https://pip.pypa.io/en/stable/quickstart/>

## Examples

-----

.. code-block:: pycon

```
>>> from markupsafe import Markup, escape
>>> # escape replaces special characters and wraps in Markup
>>> escape('<script>alert(document.cookie);</script>')
Markup(u'&lt;script&gt;alert(document.cookie);&lt;/script&gt;')
>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup('<strong>Hello</strong>')
Markup('<strong>hello</strong>')
>>> escape(Markup('<strong>Hello</strong>'))
Markup('<strong>hello</strong>')
>>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
>>> # methods and operators escape their arguments
>>> template = Markup("Hello <em>%s</em>")
>>> template % "World"
Markup('Hello <em>&#34;World&#34;</em>')
```

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-----

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## Links

-----

- \* Website: <https://palletsprojects.com/p/markupsafe/>
- \* Documentation: <https://markupsafe.palletsprojects.com/>
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- \* Releases: <https://pypi.org/project/MarkupSafe/>
- \* Code: <https://github.com/pallets/markupsafe>
- \* Issue tracker: <https://github.com/pallets/markupsafe/issues>
- \* Test status:
  
- \* Linux, Mac: <https://travis-ci.org/pallets/markupsafe>
- \* Windows: <https://ci.appveyor.com/project/pallets/markupsafe>

\* Test coverage: <https://codecov.io/gh/pallets/markupsafe>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Text Processing :: Markup :: HTML

Requires-Python: >=2.7,!<3.0.\*,!=3.1.\*,!=3.2.\*,!=3.3.\*

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\* /opt/cola/permits/1294739436\_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/src/MarkupSafe.egg-info/PKG-INFO

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/\*\*

\* markupsafe.\_speedups

\* ~~~~~

\*

\* C implementation of escaping for better performance. Used instead of  
\* the native Python implementation when compiled.

\*

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\*/

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\* /opt/cola/permits/1294739436\_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/\_\_init\_\_.py  
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# 1.167 gcc-run-time 10.2.0 r0

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That's all there is to it!  
DRuntime: Runtime Library for the D Programming Language

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Version 3.1, 31 March 2009

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```
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```
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```

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|               |                                |
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| -----         | -----                          |
| mach_override | lib/interception/mach_override |

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# 1.168 libtool 2.4.6 r0

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Version 2.1, February 1999

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

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

library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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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.

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# 1.170 gdbm-libs 1.18

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Version 3, 29 June 2007

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# 1.172 strict-rfc3339 0.7 r0

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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



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That's all there is to it!

# 1.181 tcpdump 4.9.3 r0

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## 1.182 pyang 2.2.1 r0

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## 1.183 libsolv 0.7.16

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# 1.184 parted 3.3 r0

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Version 3, 29 June 2007

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## 1.194 pnp 3.0.0.dev2 r0

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Metadata-Version: 1.2

Name: pnp

Version: 3.0.0.dev2

Summary: Plug-n-Play Agent for Cisco Network-PnP

Home-page: <https://developer.cisco.com/site/open-plug-n-play/>

Author: Network Plug-n-Play

Author-email: [pn-p-support@cisco.com](mailto:pn-p-support@cisco.com)

License: Cisco Proprietary

Description: UNKNOWN

Keywords: posix pnp agent plug-n-play client

Platform: UNKNOWN

Classifier: Operating System :: POSIX :: Linux

Classifier: Programming Language :: Python :: 3.6

Requires-Python: >=3.6

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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp.egg-info/PKG-INFO

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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/cli\_config.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/connection\_manager.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/device\_info.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/clock\_sync.py  
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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/faults.py  
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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/vrf.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/user\_auth.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/platform\_constants.py  
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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/agent.py  
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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/infra/errors.py  
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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/mechanisms/dns\_discovery.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/wlc.py  
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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/reasons.py  
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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/certificate.py  
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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/action.py  
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0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/utls/pnp\_utils.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/monitor.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/errors.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/event.py  
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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/mechanisms/sdwan\_ztp\_discovery.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/capwap.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/resolve.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/mechanisms/platform\_discovery.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/device.py  
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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/exec\_log.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/cdp.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/backoff.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/script\_exec.py  
\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-

```
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/redirection.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/device_auth.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/certificate_install.py
No license file was found, but licenses were detected in source scan.
```

```
[bdist_rpm]
release = 1
packager = Network Plug-n-Play <pnp-dev@cisco.com>
doc_files = README.rst
no-autoreq = 1
post-install = pnp/data/cfg/post_install_rpm.sh
rpm-base = ./rpmbuild
binary-only = 1
description = Plug-n-Play Agent for Cisco Network-PnP
keep-temp = 1
```

```
[egg_info]
tag_build =
tag_date = 0
```

```
Found in path(s):
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/setup.cfg
```

# 1.195 python-pip 9.0.3

## 1.195.1 Available under license :

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# 1.196 lz4 1.9.2 r0

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files in the `lib` directory are designed to be included into 3rd party applications,  
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LZ4 Library

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Version 2, June 1991

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

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## 1.197 libtirpc 1.1.4

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This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:

Sanjay Ghemawat <sanjay@google.com>

Jeff Dean <jeff@google.com>

Daniel Dulitz <daniel@google.com>

Craig Silverstein

Paul Haahr <haahr@google.com>

Corey Anderson <corin@google.com>

(and many others)

Proto2 C++ and Java primary author:

Kenton Varda <kenton@google.com>

Proto2 Python primary authors:

Will Robinson <robinson@google.com>

Petar Petrov <petar@google.com>

Java Nano primary authors:

Brian Duff <bduff@google.com>

Tom Chao <chaot@google.com>

Max Cai <maxtroy@google.com>

Ulas Kirazci <ulas@google.com>

Large code contributions:

Jason Hsueh <jasonh@google.com>

Joseph Schorr <jschorr@google.com>

Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:

Scott Bruce <sbruce@google.com>

Frank Yellin

Neal Norwitz <nnorwitz@google.com>

Jeffrey Yasskin <jyasskin@google.com>

Ambrose Feinstein <ambrose@google.com>

Documentation:

Lisa Carey <lcarey@google.com>

Maven packaging:

Gregory Kick <gak@google.com>

Patch contributors:

Kevin Ko <kevin.s.ko@gmail.com>

\* Small patch to handle trailing slashes in --proto\_path flag.

Johan Euphrosine <propy@aminche.com>

\* Small patch to fix Python CallMethod().

Ulrich Kunitz <kune@deine-taler.de>  
\* Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>  
\* VI syntax highlighting tweaks.  
\* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>  
\* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>  
\* Added @Override annotation to generated Java code where appropriate.

Vincent Choiniere <Choiniere.Vincent@hydro.qc.ca>  
\* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>  
\* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>  
\* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>  
\* MS Visual Studio error format option.  
\* Detect unordered\_map in stl\_hash.m4.

Brian Olson <brianolson@google.com>  
\* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>  
\* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).  
\* Added generation of field number constants.

Wink Saville <wink@google.com>  
\* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>  
\* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>  
\* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>  
\* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>  
\* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>  
\* Detect whether zlib is new enough in configure script.  
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Evan Jones <evanj@mit.edu>  
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\* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.  
\* Clean up some Java warnings.  
\* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>  
\* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>  
\* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.



William Orr <will@worrbase.com>

- \* Fixed detection of sched\_yield on Solaris.

- \* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- \* Fixed minor IBM xLC compiler build issues

- \* Added atomicops for AIX (POWER)

# 1.199 grep 3.4 r0

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## 1.204 jsonpointer 2.0 r0

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## 1.208 python-certifi 2020.6.20 r0

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.209 ebttables 2.0.10-4 r4

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## 1.214 six 1.15.0

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Marc Abramowitz  
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Alexander Artemenko  
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Thomas Grainger  
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Toshiki Kataoka  
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Anselm Kruis  
Ivan Levkivskyi  
Alexander Lukanin  
James Mills  
Jordan Moldow  
Berker Peksag  
Sridhar Ratnakumar  
Erik Rose  
Mirko Rossini  
Peter Ruibal  
Miroslav Shubernetskiy  
Eli Schwartz  
Anthony Sottile  
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# 1.215 pexpect 4.8.0 r0

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# 1.217 pam 1.3.1

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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# 1.225 dpdk 19.11.6

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## 1.228 cyrus-sasl 2.1.27

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 * Rob Siemborski
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## 1.232 tar 1.32 r0



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# 1.233 curl 7.61.1

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=====

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## 1.234 python3-greenlet 0.4.17 r0

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# 1.235 async-timeout 3.0.1 r0

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Found in path(s):

\* /opt/cola/permits/1294739178\_1648246428.24/0/alex-pretend-v1-0-9-0-gfed40c9-tar-gz/alex-pretend-a4b2399/LICENSE.rst

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

```
from setuptools import setup
```

```
with open("README.rst") as f:
```

```
    readme = f.read()
```

```
setup(
```

```
    version="1.0.9",
```

```
    name="pretend",
```

```
    description="A library for stubbing in Python",
```

```
    long_description=readme,
```

```
    author="Alex Gaynor",
```

```
    author_email="alex.gaynor@gmail.com",
```

```
    py_modules=["pretend"],
```

```
    url="https://github.com/alex/pretend",
```

```
    license="BSD",
```

```
    classifiers=[
```

```
        "Development Status :: 5 - Production/Stable",
```

```
        "Intended Audience :: Developers",
```

```
        "License :: OSI Approved :: BSD License",
```

```
        "Operating System :: OS Independent",
```

```
        "Topic :: Software Development :: Testing",
```

```
        "Programming Language :: Python :: 2.6",
```

```
        "Programming Language :: Python :: 2.7",
```

```
        "Programming Language :: Python :: 3.2",
```

```
        "Programming Language :: Python :: 3.3",
```

```
        "Programming Language :: Python :: 3.4",
```

```
        "Programming Language :: Python :: 3.5",
```

```
        "Programming Language :: Python :: 3.6",
```

```
    ]
```

```
)
```

Found in path(s):

\* /opt/cola/permits/1294739178\_1648246428.24/0/alex-pretend-v1-0-9-0-gfed40c9-tar-gz/alex-pretend-a4b2399/setup.py

# 1.238 glib 2.64.5 r0

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# 1.239 makedumpfile 1.6.9 r0

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# 1.241 tcpdump 4.9.3

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## 1.242 iso8601 0.1.13 r0

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## 1.243 ncurses 6.1

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Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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-- vile: txtmode file-encoding=utf-8

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Files: progs/tset.c ncurses/tinfo/read\_termcap.c

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-- vile: txtmode file-encoding=utf-8

# 1.244 coreutils 8.30

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Open-vm-tools v10.3.0

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>>> freebsd-base64-4.8

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base64.c -- routines to encode/decode base64 data

\$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /

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## 1.247 pcre 10.32

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## 1.251 libpwquality 1.4.4

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```
/*  
 * pw_const.tph  
 *  
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 */
```

```
@DIRECTIVES{  
    auto_import_stg = false;  
    skip_auto_tdl_include = true;  
}@
```

```
@IMPORT_STG{
    import "constant_gen.stg";
}@
```

```
@TDL{
    import "pw_const.tdl"
}@
```

```
@CODE{
```

```
#ifndef __TDLC_GEN_PW_CONST_H__
#define __TDLC_GEN_PW_CONST_H__
```

```
    $constant_generate()$
```

```
#endif /* __TDLC_GEN_PW_CONST_H__ */
```

```
@
```

Found in path(s):

\* /opt/cola/permits/1267355727\_1647467115.33/0/pw-tar/pw/include/pw\_const.tph

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\* /opt/cola/permits/1267355727\_1647467115.33/0/pw-tar/pw/Makefile.binos

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```
/*
```

```
* pw_defs.h
```

```
*
```

```
* Password defines.
```

```
*
```

```
* July 2005, Craig MacFarlane
```

```
*
```

```
* Copyright (c) 2005, 2007, 2010, 2014, 2018-2019 by cisco Systems, Inc.
```

```
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```

```
*
```

```
*/
```

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```
/*
```

```
* pw.h
```

```
*
```

```

* Password routines, adopted from IOX
*
* May 2000 Mark Eklund
* July 2005, Craig MacFarlane
*
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*/
/*
* edt: * pw_type_t
*     Possible formats of saving the password in SysDB.
*
* item: PW_TYPE_CLEAR
*     The password in the clear, visible for anybody.
*
* item: PW_TYPE_1WAY
*     The password encrypted to an MD5 digest. This is not reversible.
*
* item: PW_TYPE_1WAY_2
*     The password encrypted to an sha256 digest. This is not reversible.
*
* item: PW_TYPE_2WAY
*     The Cisco type 7 password encryption. This is reversible
* by both Cisco products and several public domain programs.
*/

```

Found in path(s):

```

* /opt/cola/permits/1267355727_1647467115.33/0/pw-tar/pw/include/pw.h

```

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

```

/*
* pw.c
*
* AAA password routines, adopted from IOX
*
* January 2005, Naiming Shen
* July 2005, Craig MacFarlane
*
* Copyright (c) 2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
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*-----
* pw.c -- password encryption/decryption routines
*
* May 08 2000, Mark Eklund
*
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```

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1267355727\_1647467115.33/0/pw-tar/pw/src/pw.c

# 1.252 pciutils 3.7.0 r0

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## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
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## 1.258 miura 1.9

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\*  
 \* This file defines gport (generic port) parameters. The gport is useful  
 \* for specifying the following types of identifiers:  
 \* LOCAL : port on the local unit  
 \* MODPORT : {module ID, port} pair  
 \* TRUNK : trunk ID  
 \* PROXY : {module ID, port} pair employed in proxy operations  
 \* BLACK\_HOLE : identifier indicating drop destination  
 \* LOCAL\_CPU : identifier indicating local CPU destination  
 \* MPLS\_PORT : L2 MPLS virtual-port (VPLS/VPWS)  
 \* SUBPORT\_GROUP : Subport group  
 \* SUBPORT\_PORT : Subport virtual-port  
 \* UCAST\_QUEUE\_GROUP : Group of unicast COSQs  
 \* MCAST\_QUEUE\_GROUP : Group of multicast COSQs  
 \* UCAST\_SUBSCRIBER\_QUEUE\_GROUP : Group of 64K subscriber unicast COSQs  
 \* MCAST\_SUBSCRIBER\_QUEUE\_GROUP : Group of 64K subscriber multicast COSQs  
 \* MCAST : distribution set identifier  
 \* SCHEDULER : COSQ scheduler  
 \* DEVPORT : {device ID, port} pair (ports on devices without a module ID)  
 \* SPECIAL : application special value (invalid in BCM APIs)  
 \* MIRROR : Mirror (modport & encapsulation) for mirrored traffic.  
 \* MIM\_PORT : MIM virtual-port  
 \* VLAN\_PORT : VLAN virtual-port  
 \* WLAN\_PORT : WLAN virtual-port  
 \* TRILL\_PORT : TRILL virtual-port  
 \* NIV\_PORT : NIV virtual-port  
 \* EXTENDER\_PORT : Extender virtual-port  
 \* MAC\_PORT : MAC virtual-port  
 \* TUNNEL : Tunnel ID

- \* MULTIPATH : Multipath shaper
- \*
- \* This header requires that the uint32 type be defined before inclusion.
- \* Using <sal/types.h> is the simplest (and recommended) way of doing this.
- \*
- \* Its contents are not used directly by applications; it is used only
- \* by header files of parent APIs which need to define gport parameters.
- \*
- \* The following macros are made available. All have names starting
- \* with \_SHR\_, which have been elided from this list:
- \*
- \* Constants or Expressions suitable for assignment:
- \* GPORT\_NONE                   gport initializer
- \* GPORT\_INVALID               invalid gport identifier
- \* GPORT\_BLACK\_HOLE           black-hole gport identifier
- \* GPORT\_LOCAL\_CPU            local CPU gport identifier
- \*
- \* Predicates: (return 0 or 1, suitable for using in if statements)
- \* GPORT\_IS\_SET                is the gport set?
- \* GPORT\_IS\_LOCAL             is the gport a local port type?
- \* GPORT\_IS\_MODPORT           is the gport a modid/port type?
- \* GPORT\_IS\_TRUNK             is the gport a trunk type?
- \* GPORT\_IS\_BLACK\_HOLE        is the gport a black-hole type?
- \* GPORT\_IS\_LOCAL\_CPU         is the gport a local CPU type?
- \* GPORT\_IS\_MPLS\_PORT         is the gport a MPLS port type?
- \* GPORT\_IS\_SUBPORT\_GROUP     is the gport a subport group type?
- \* GPORT\_IS\_SUBPORT\_PORT     is the gport a subport port type?
- \* GPORT\_IS\_UCAST\_QUEUE\_GROUP is the gport a unicast group type?
- \* GPORT\_IS\_UCAST\_SUBSCRIBER\_QUEUE\_GROUP is the gport a subscriber unicast group type?
- \* GPORT\_IS\_MCAST             is the gport a multicast set type?
- \* GPORT\_IS\_MCAST\_QUEUE\_GROUP is the gport a multicast queue group type?
- \* GPORT\_IS\_MCAST\_SUBSCRIBER\_QUEUE\_GROUP is the gport a multicast subscriber queue group type?
- \* GPORT\_IS\_SCHEDULER         is the gport a scheduler type?
- \* GPORT\_IS\_DEVPORT           is the gport a devid/port type?
- \* GPORT\_IS\_SPECIAL           is the gport a special type?
- \* GPORT\_IS\_MIRROR            is the gport a mirror destination type?
- \* GPORT\_IS\_MIM\_PORT          is the gport a MIM port type?
- \* GPORT\_IS\_VLAN\_PORT         is the gport a VLAN port type?
- \* GPORT\_IS\_WLAN\_PORT         is the gport a WLAN port type?
- \* GPORT\_IS\_TRILL\_PORT        is the gport a TRILL port type?
- \* GPORT\_IS\_NIV\_PORT          is the gport a NIV port type?
- \* GPORT\_IS\_EXTENDER\_PORT     is the gport an Extender port type?
- \* EXTENDER\_GPORT\_IS\_PORT     is the extender gport a port subtype?
- \* EXTENDER\_GPORT\_IS\_FORWARD is the extender gport a port forward?
- \* EXTENDER\_GPORT\_IS\_ENCAP    is the extender gport a port encap?
- \* GPORT\_IS\_MAC\_PORT          is the gport a MAC port type?
- \* GPORT\_IS\_TUNNEL            is the gport a tunnel type?
- \* GPORT\_IS\_CHILD             is the gport a child port type?



- \* GPORT\_IS\_EGRESS\_GROUP      is the gport a egress group type?
- \* GPORT\_IS\_EGRESS\_CHILD      is the gport a egress child type?
- \* GPORT\_IS\_EGRESS\_MODPORT    is the gport a egress modport type?
- \* COSQ\_GPORT\_IS\_MULTIPATH    is the gport a multipath type?
- \*
- \* Statements: (cannot be used as a predicate)
- \* GPORT\_LOCAL\_SET            set a gport local port type and value
- \* GPORT\_LOCAL\_GET            get a port value from a local gport
- \* GPORT\_LOCAL\_CPU\_SET        set a gport local CPU port type and value
- \* GPORT\_LOCAL\_CPU\_GET        get a CPU port value from a local gport
- \* GPORT\_MODPORT\_SET          set a gport modid/port type and values
- \* GPORT\_MODPORT\_MODID\_GET    get a modid value from a modport gport
- \* GPORT\_MODPORT\_PORT\_GET     get a port value from a modport gport
- \* GPORT\_TRUNK\_SET            set a gport trunk type and value
- \* GPORT\_TRUNK\_GET            get a trunk\_id value from a trunk gport
- \* GPORT\_MPLS\_PORT\_ID\_SET     set a MPLS ID type and value
- \* GPORT\_MPLS\_PORT\_ID\_GET     get a MPLS ID from a MPLS gport
- \* GPORT\_SUBPORT\_GROUP\_SET    set a subport group type and value
- \* GPORT\_SUBPORT\_GROUP\_GET    get a subport group ID from a gport
- \* GPORT\_SUBPORT\_PORT\_SET     set a subport port type and value
- \* GPORT\_SUBPORT\_PORT\_GET     get a subport port ID from a gport
- \* GPORT\_SCHEDULER\_SET        set a scheduler type and value
- \* GPORT\_SCHEDULER\_GET        get a scheduler ID from a gport
- \* GPORT\_DEVPORT\_SET          set a gport devid/port type and values
- \* GPORT\_DEVPORT\_DEVID\_GET    get a devid value from a devport gport
- \* GPORT\_DEVPORT\_PORT\_GET     get a port value from a devport gport
- \* GPORT\_UCAST\_QUEUE\_GROUP\_SET set a queue group type and value
- \* GPORT\_UCAST\_QUEUE\_GROUP\_GET get a queue group ID from a gport
- \* GPORT\_MCAST\_SET            set a mcast dist set and value
- \* GPORT\_MCAST\_GET            get an mcast dist set from a gport
- \* GPORT\_MCAST\_DS\_ID\_SET      set an mcast DS ID and value
- \* GPORT\_MCAST\_DS\_ID\_GET      get an mcast DS ID from a gport
- \* GPORT\_MCAST\_QUEUE\_GROUP\_SET set an mcast queue group type and value
- \* GPORT\_MCAST\_QUEUE\_GROUP\_GET get an mcast queue group ID from a gport
- \* GPORT\_MCAST\_QUEUE\_GROUP\_SYSQID\_SET set an mcast queue group system queue ID
- \* GPORT\_MCAST\_QUEUE\_GROUP\_SYSPORTID\_GET get an mcast queue group system port ID
- \* GPORT\_MCAST\_QUEUE\_GROUP\_QID\_GET get an mcast queue group queue ID
- \* GPORT\_UCAST\_QUEUE\_GROUP\_SYSQID\_SET get a unicast queue group system queue ID
- \* GPORT\_UCAST\_QUEUE\_GROUP\_SYSPORTID\_GET get a unicast queue group system port ID
- \* GPORT\_UCAST\_QUEUE\_GROUP\_QID\_GET get a unicast queue group queue ID
- \* GPORT\_UCAST\_SUBSCRIBER\_QUEUE\_GROUP\_QID\_SET set a ucast subscriber queue group queue id
- \* GPORT\_UCAST\_SUBSCRIBER\_QUEUE\_GROUP\_QID\_GET get a ucast subscriber queue group queue id
- \* GPORT\_MCAST\_SUBSCRIBER\_QUEUE\_GROUP\_QID\_SET set an mcast subscriber queue group queue id
- \* GPORT\_MCAST\_SUBSCRIBER\_QUEUE\_GROUP\_QID\_GET get an mcast subscriber queue group queue id
- \* GPORT\_SPECIAL\_SET          set a gport special type and value
- \* GPORT\_SPECIAL\_GET          get a value from a special gport
- \* GPORT\_MIRROR\_SET           set a gport mirror type and value
- \* GPORT\_MIRROR\_GET           get a value from a mirror gport

- \* GPORT\_MIM\_PORT\_ID\_SET      set a MIM ID type and value
- \* GPORT\_MIM\_PORT\_ID\_GET      get a MIM ID from a Mim gport
- \* GPORT\_VLAN\_PORT\_ID\_SET      set a VLAN port ID type and value
- \* GPORT\_VLAN\_PORT\_ID\_GET      get a VLAN port ID from a VLAN gport
- \* GPORT\_WLAN\_PORT\_ID\_SET      set a WLAN ID type and value
- \* GPORT\_WLAN\_PORT\_ID\_GET      get a WLAN ID from a WLAN gport
- \* GPORT\_TRILL\_PORT\_ID\_SET      set a TRILL ID type and value
- \* GPORT\_TRILL\_PORT\_ID\_GET      get a TRILL ID from a Trill gport
- \* GPORT\_NIV\_PORT\_ID\_SET      set a NIV ID type and value
- \* GPORT\_NIV\_PORT\_ID\_GET      get a NIV ID from a NIV gport
- \* EXTENDER\_GPORT\_PORT\_SET      set an Extender type, Port subtype and ID value
- \* EXTENDER\_GPORT\_FORWARD\_SET      set an Extender type, Forward subtype and ID value
- \* EXTENDER\_GPORT\_ENCAP\_SET      set an Extender type, Encap subtype and ID value
- \* GPORT\_EXTENDER\_PORT\_ID\_SET      same as EXTENDER\_GPORT\_PORT\_SET for backward compatability
- \* GPORT\_EXTENDER\_PORT\_ID\_GET      get an Extender ID from an Extender gport
- \* GPORT\_MAC\_PORT\_ID\_SET      set a MAC ID type and value
- \* GPORT\_MAC\_PORT\_ID\_GET      get a MAC ID from an MAC gport
- \* GPORT\_TUNNEL\_ID\_SET      set a gport tunnel type and value
- \* GPORT\_TUNNEL\_ID\_GET      get a tunnel\_id value from a tunnel gport
- \* GPORT\_CHILD\_SET      set a child gport
- \* GPORT\_CHILD\_MODID\_GET      get a child gport modid
- \* GPORT\_CHILD\_PORT\_GET      get a child gport port
- \* GPORT\_EGRESS\_GROUP\_SET      set an egress group
- \* GPORT\_EGRESS\_GROUP\_GET      get an egress group
- \* GPORT\_EGRESS\_GROUP\_MODID\_GET      get an egress group modid
- \* GPORT\_EGRESS\_CHILD\_SET      set an egress child gport
- \* GPORT\_EGRESS\_CHILD\_MODID\_GET      get an egress child gport modid
- \* GPORT\_EGRESS\_CHILD\_PORT\_GET      get an egress child gport port
- \* GPORT\_EGRESS\_MODPORT\_SET      set an egress modport
- \* GPORT\_EGRESS\_MODPORT\_MODID\_GET      get an egress modport modid
- \* GPORT\_EGRESS\_MODPORT\_PORT\_GET      get an egress modport port
- \* GPORT\_MULTIPATH\_SET      set an multipath port id
- \* GPORT\_MULTIPATH\_GET      get an multipath port id
- \*/

Found in path(s):

- \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/gport.h

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/dox/bcm\_plp\_base\_t\_secy\_api.c  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_plp\_base\_t\_sec/bcm\_plp\_base\_t\_secy\_api.c  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/phy542xx\_sdk.c

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\* File: uc\_msg.h

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/uc\_msg.h  
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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/common/adapter\_all  
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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_doc.h

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 \*  
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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ism\_hash.h  
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 gz/Seahawks\_Stand\_Alone\_APis\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/dport.h  
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<tr class="memitem:a6f78468eb0dbc6aea2888df9544b9bc7"><td class="memItemLeft" align="right"  
 valign="top">unsigned char&#160;</td><td class="memItemRight" valign="bottom"><a class="el"

```

href="structbcm__plp__base__t__secy__sa__e__t.html#a6f78468eb0dbc6aea2888df9544b9bc7">confidentiality_of
fset</a></td></tr>
<td class="memname">unsigned char bcm_plp_base_t_secy_sa_e_t::confidentiality_offset</td>
<p>true - enable confidentiality protection<br/>
false - disable confidentiality protection </p>

```

Found in path(s):

```

* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/html/structbcm__plp__base__t__secy__sa__e__t.html
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```

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\*  
\* General utility routines  
\*/

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/util.h  
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```
<tr class="even"><td class="entry"><a class="el"
href="structbcm__plp__base__t__secy__sa__ca__t.html#aa2c876827f8a8dfa4c09a43182963529">confidentiality_o
ffset</a></td><td class="entry"><a class="el"
href="structbcm__plp__base__t__secy__sa__ca__t.html">bcm_plp_base_t_secy_sa_ca_t</a></td><td
class="entry"></td></tr>
```

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/html/structbcm\_\_plp\_\_base\_\_t\_\_secy\_\_sa\_\_ca\_\_t-  
members.html  
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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/DriverFramework/CLib\_Abstraction\_API/incl/cl  
ib.h

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gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/13.h  
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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/core/phymod\_diagnostics\_enums.c  
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 gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/rx.h

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 \*  
 \* This file also includes the more common include files so the  
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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/drv.h  
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```

\*  
\*  
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Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_diagnostics.h  
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Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/seahawks\_reference\_app/seahawks\_common.h

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 \*  
 \* File: allfields.h  
 \* Purpose: Field declarations for memory and registers  
 \*  
 \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/mcm/allfields.h  
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```
<LI><OBJECT type="text/sitemap"><param name="Name" value="confidentiality_offset"><param name="Local"
value="structbcm__plp__base__t__secy__sa__ca__t.html#aa2c876827f8a8dfa4c09a43182963529"><param
name="ImageNumber" value="11"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Name" value="confidentiality_offset"><param name="Local"
value="structbcm__plp__base__t__secy__sa__e__t.html#a6f78468eb0dbc6aea2888df9544b9bc7"><param
name="ImageNumber" value="11"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Name" value="confidentiality_offset"><param name="Local"
value="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44"><param
name="ImageNumber" value="11"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Name" value="confidentiality_offset"><param name="Local"
value="structbcm__plp__base__t__secy__sa__e__t.html#a6f78468eb0dbc6aea2888df9544b9bc7"><param
name="ImageNumber" value="11"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Name" value="confidentiality_offset"><param name="Local"
value="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44"><param
name="ImageNumber" value="11"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Name" value="confidentiality_offset"><param name="Local"
value="structbcm__plp__base__t__secy__sa__ca__t.html#aa2c876827f8a8dfa4c09a43182963529"><param
name="ImageNumber" value="11"></OBJECT>
```

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/html/index.hhc  
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/\* true - enable confidentiality protection \*/

/\* false - disable confidentiality protection \*/

/\* true - enable confidentiality protection (AES-GCM/CTR operation) \*/

/\* false - disable confidentiality protection (AES-GMAC operation) \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/incl/eip160\_secy.h

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\* File : phy542xx\_cfg\_seq.h

\* Description: c functions implementing Tier1

/\*-----\*/

/\*

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Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APis\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/phy542xx\_diag\_seq.h

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP201/src/c\_eip201.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/DriverFramework/Device\_API/incl/device\_rw.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/DriverFramework/Device\_API/incl/device\_types  
.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/DriverFramework/Device\_API/incl/device\_swap  
.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP201/incl/eip201.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP201/src/eip201.c  
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\* File: libc.h

\* Purpose: Some C library functions to remove dependencies  
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\*

\* The compile-time flag -DRTOS\_STRINGS should be used if your RTOS  
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\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/libc.h  
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\*

\* \$Id: phymod\_definitions.h,v 1.2.2.12 2013/09/03 06:54:51 dayad Exp \$

\*

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\*

\* Phymod external definitions

\*

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-



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- \*
- \* File: phyconfig.h
- \*
- \* Purpose: Set default configuration of the PHYs.
- \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/phyconfig.h  
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```
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\* File: phyxehg.h

\* Purpose: Defines common PHY driver routines for Broadcom 10G PHY.

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/phyxehg.h

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\*

\* Bit Array Operations

\*/

Found in path(s):

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/bitop.h  
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\*

\* This file defines PHY configuration modes.

\*

\* Its contents are not used directly by applications; it is used only  
\* by header files of parent APIs which need to define port modes.

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/phyconfig.h

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\*

\* File: boot.h

\* Purpose: Boot definitions

\*/

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eep.h

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/Log/src/log.c

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/Log/incl/log.h

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/common/adapter\_sl  
eep.c

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/common/adapter\_in  
it.h

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#

# \$Id\$

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#

-----  
- README file for the PHY software driver -  
-----

## Description

-----

This package contains PHY software drivers.

## Further README contents

-----

1. List of key files
2. How to Compile
3. An example of how to write a sample program to access software driver library using EPDM
4. How to access documentation
5. How to specify firmware download method
6. Microcode Release
7. Floating point library requirement
8. To enable debug message for register read and write
9. Updating PRE defined macro with user defined macro/API
10. Warmboot support
11. Using EPDM common define to compile driver

## 1. List of key files

-----

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| README                            | - This is README file                                                  |
| ReleaseNote.txt                   | - List of changes between current releases to previous release version |
| ReleaseNote_fw_<chip>.txt         | - <chip> firmware release notes.                                       |
| bcm_pm_if                         | - PHYMOD Interface functionalities                                     |
| bcm_plp_sec or bcm_plp_base_t_sec | - CfyE and SecY Interface functionality or SecY interface support      |
| DDK or IMACSEC                    | - CfyE and SecY source or SecY support                                 |
| doc                               | - Documentation (using Doxygen)                                        |
| <chip>_reference_app              | - Sample application to access phy chip                                |
| make                              | - make rules and config files                                          |
| Makefile                          | - Makefile provides 'build' and 'clean' the targets                    |
| phymod/acc                        | - Platform specific register access mechanism                          |
| phymod/chip                       | - All supported CHIPS                                                  |
| phymod/chip/<chip>                | - chip specific functionalities                                        |
| phymod/core                       | - PHYMOD APIs for dispatch,access,diagnostics and debug                |
| phymod/diag                       | - PHYMOD diag APIs for eyescan,dsc.. etc                               |
| phymod/doc                        | - Documentation for phymod (using Doxygen)                             |
| phymod/include                    | - Header files, phymod custom config header file                       |
| phymod/include/phymod             | - PHYMOD APIs related header files                                     |
| phymod/include/phymod/acc         | - PHYMOD APIs access header files                                      |
| phymod/include/phymod/chip        | - PHYMOD APIs chip related header files                                |

## 2. How to compile

-----

To compile, unpack it to a directory and run

To Unpack

-----

```
tar -zxvf <CHIP>_<Y>_<Z>.tgz
```

To compile

-----

```
cd <CHIP>_<Y>_<Z>.tgz
```

```
make clean
```

```
make
```

### 3. An example of how to write a sample program to access software driver library using EPDM

-----

Application users have to download EPDM(External PHY Device manager) to their code to access phy drivers.

All supported EPDM APIs are listed under \$EPDM/epdm.h and \$EPDM/epdm\_sec.h(for DDK) or \$EPDM/epdm\_base\_t\_sec.h(for IMACSEC).

-> User needs to set \$EPDM\_HOME in Makefile with the EPDM source code location

Example Application program:

-----

\$<CHIP>\_<Y>\_<Z>/<chip>\_reference\_app have an example of accessing PHY driver library through EPDM

### 4. How to access documentation

-----

See the included doc pages for more information on \$<CHIP>\_<Y>\_<Z>.

Documentation pages available at \$<CHIP>\_<Y>\_<Z>/doc/html/index.html

### 5. How to specify firmware download method

-----

-----

-----

#### Broadcast Firmware Download

-----

-----

Broadcast Firmware download is a method to broadcast firmware on all phy devices connected on same MDIO bus. Broadcast is supported by MDIO download method.

Application has to follow below steps to start the broadcast firmware download using this API:

```
int bcm_plp_init_fw_bcast(char* chip_name, bcm_plp_access_t phy_info,  
    int (*read)(void* user_acc, unsigned int core_addr, unsigned int reg_addr, unsigned int* val),  
    int (*write)(void* user_acc, unsigned int core_addr, unsigned int reg_addr, unsigned int val),
```

```
bcm_plp_firmware_load_type_t *firmware_load_type,
bcm_plp_firmware_broadcast_method_t broadcast_method);
```

firmware\_load\_type.firmware\_load\_method Specify the firmware load method

- 0 - bcmFirmwareLoadMethodNone Do not download firmware
- 1 - bcmFirmwareLoadMethodInternal Internal Firmware Download: MDIO download
- 2 - bcmFirmwareLoadMethodExternal Reserved for future use
- 3 - bcmFirmwareLoadMethodProgEEPROM Reserved for future use

firmware\_load\_type.force\_load\_method Force firmware load method

- 0 - bcmFirmwareLoadSkip Skip firmware download if firmware is already present
- 1 - bcmFirmwareLoadForce Always download the firmware specified by firmware load method
- 2 - bcmFirmwareLoadAuto Check the firmware version: if it is different from current version download the firmware,  
otherwise skip the download

Following steps are followed for broadcast method:

```
firmware_load_type.firmware_load_method=bcmFirmwareLoadMethodInternal;
firmware_load_type.force_load_method=bcmFirmwareLoadForce;
```

Identify list of PHY's that needs to be broadcasted on a MDIO Bus which is referred as BCAST\_LIST, To perform broadcast follow below steps,

i) For each PHY in BCAST\_LIST call,

```
bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type,
bcmFirmwareBroadcastCoreReset); ## This Hard reset the core.
```

ii) For each PHY in BCAST\_LIST call,

```
bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type,
bcmFirmwareBroadcastEnable); ## Enable Broadcast mode, Broadcast Starts
```

iii) Load Firmware for any one Phy/Core in BCAST\_LIST,

```
bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type,
bcmFirmwareBroadcastFirmwareExecute); ## Download MICROCODE
```

iv) For each PHY in BCAST\_LIST call,

```
bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type,
bcmFirmwareBroadcastFirmwareVerify); ## verify FW
```

v) For each PHY in BCAST\_LIST call,

```
bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type, bcmFirmwareBroadcastEnd);
## End of broadcast
```

-----  
-----  
Unicast Firmware Download  
-----  
-----

Unicast firmware download can also be achieved through "bcm\_plp\_init\_fw\_bcast", By calling with

bcmFirmwareBroadcastNone API as follows,

```
bcm_plp_init_fw_bcast("chip_name",phy_info, read, write,&firmware_load_type,bcmFirmwareBroadcastNone);
```

## 6. Microcode Release

-----

i) Hex version of microcode(firmware) file, <chip>\_ucode.c available in  
\$<CHIP>\_<Y>\_<Z>/phymod/chip/<phy chip>/tier1

<Version> denotes the version of the firmware.

<chip> denotes the phy chip

## 7. Floating Point Library Requirement:

-----

bcm\_pm\_if\_eye\_margin\_proj API requires floating point library support.

User has to compile ePIL with SERDES\_API\_FLOATING\_POINT in config.mk as mentioned below(conditional compilation flag, specified in make file with -D option)

for enabling bcm\_pm\_if\_eye\_margin\_proj API support.

```
TMP_PHYMOD_EPIL_CPPFLAGS += -DSERDES_API_FLOATING_POINT
```

before

```
export PHYMOD_EPIL_DSYM_CPPFLAGS
```

## 8. To enable debug message for register read and write:

-----

Add TMP\_PHYMOD\_EPIL\_CPPFLAGS += -DPHYMOD\_DEBUG\_BUS\_WRITE -  
DPHYMOD\_DEBUG\_BUS\_READ in make\config.mk file

## 9. Updating PRE defined PHYMOD macro with user defined macro/API

-----

PHYMOD provides a way to update pre defined macro with user defined API.

User needs to update macros in \$<CHIP>\_<Y>\_<Z>/phymod/include/phymod\_custom\_config.h based on user environment.

eg: #define PHYMOD\_USLEEP user\_usleep

## 10. Warmboot Support

-----

Application has to follow below steps to perform warmboot,

1. To enable driver to supports warmboot,

Compile with TMP\_PHYMOD\_EPIL\_CPPFLAGS += -DBCM\_PLP\_WARM\_BOOT\_SUPPORT in  
make\config.mk file

2. To use warmboot feature,

Call bcm\_plp\_init API or bcm\_plp\_init\_fw\_bcast API (for broadcast enabled init) with  
flags(under bcm\_plp\_info structure) as BCM\_PLP\_WARM\_BOOT.

For MACSEC module,

Call bcm\_plp\_cyfe\_device\_init with flags(under bcm\_plp\_info structure) as BCM\_PLP\_WARM\_BOOT and  
Call bcm\_plp\_secy\_device\_init with flags(under bcm\_plp\_info structure) as BCM\_PLP\_WARM\_BOOT.

NOTE: For cold boot it is expected to clear flags (under bcm\_plp\_info structure)

## 11. Using EPDM common define to compile driver

- 
1. Enabling driver to use epdm common defines,  
Step 1: Compile with TMP\_PHYMOD\_EPIL\_CPPFLAGS += -DUSE\_EPDM\_COMMON\_DEFINES in  
make\config.mk file  
Step 2: Define EPDM\_HOME based on your EPDM installation directory

Note: By default driver uses common defines that is available in the driver package.

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/README  
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 \*  
 \*  
 \*/  
 /\*  
 \*  
 \* \$Id: phymod\_definitions.h,v 1.2.2.12 2013/09/03 06:54:51 dayad Exp \$  
 \*  
 \* \$Copyright:  
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 \*  
 \* Shell diagnostics of Phymod  
 \*  
 \*/

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_diag.h  
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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/List/src/list.c

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 \* \$Id\$  
 \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_pm\_if/all\_doc.h  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/dox/all\_doc.h  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/seahawks\_reference\_app/WinTypes.h

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 \*  
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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/legacy.h

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```
<tr class="memitem:a1c8f9fa7a255053b1d561938628d5f44"><td class="memItemLeft" align="right"
valign="top">unsigned char&#160;</td><td class="memItemRight" valign="bottom"><a class="el"
href="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44">confidentiality_of
fset</a></td></tr>
<td class="memname">unsigned char bcm_plp_base_t_secy_sa_i_t::confidentiality_offset</td>
```

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/html/structbcm\_\_plp\_\_base\_\_t\_\_secy\_\_sa\_\_i\_\_t.html  
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\* \$Id: phy542xx\_cfg\_seq.c \$

\*

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\*/opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/phy542xx\_cfg\_seq.c

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/\*

\* File: register.h

\* Purpose: Base definitions for register types

\* Requires:

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/register.h

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\* \$Id: phy\_unimac.h,v 1.1 2011/05/07 00:17:37 raphy Exp \$

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/phy\_unimac.h

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\* \$Id: phy\_unimac.c,v 1.3 2011/05/12 01:35:43 raphy Exp \$

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\$Id\$

\*/

```
sa.Params.Egress.ConfidentialityOffset = sa_p->params.egress.confidentiality_offset;    \  
sa.Params.Ingress.ConfidentialityOffset = sa_p->params.ingress.confidentiality_offset;  \  
sa.Params.CryptAuth.ConfidentialityOffset = sa_p->params.crypt_auth.confidentiality_offset; \  

```

Found in path(s):

```
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_plp_base_t_secy_api.h  
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/bcm_plp_base_t_sec/bcm_plp_base_t_secy_api.h
```

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```
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gz/Seahawks\_Stand\_Alone\_APis\_v\_1\_2/SHWK\_1\_2/phymod/diag/phymod\_diag.c

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\* \$Id: phyident.h,v 1.137 2013/07/29 18:47:09 raphy Exp \$

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\* File: phyident.h

\* Purpose: Basic defines for PHY Model/OUI/Rev for PHY identification.

\* Note: This header file is for PHY driver module. Should not include

\* this header file in SOC or BCM layers.

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/phyident.h

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sdk\_config.h  
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- \*
- \* Chip symbol table definitions.
- \*/

Found in path(s):

- \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_symbols.h

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

```
<LI><OBJECT type="text/sitemap"><param name="Local"
value="structbcm__plp__base__t__secy__sa__ca__t.html#aa2c876827f8a8dfa4c09a43182963529"><param
name="Name" value="confidentiality_offset"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Local"
value="structbcm__plp__base__t__secy__sa__e__t.html#a6f78468eb0dbc6aea2888df9544b9bc7"><param
name="Name" value="confidentiality_offset"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Local"
value="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44"><param
name="Name" value="confidentiality_offset"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Local"
value="structbcm__plp__base__t__secy__sa__ca__t.html#aa2c876827f8a8dfa4c09a43182963529"><param
name="Name" value="confidentiality_offset"></OBJECT>
```

Found in path(s):

- \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/html/index.hhk

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\*

\* SOC\_FEATURE definitions

\*

\* File: feature.h

\* Purpose: Define features by chip

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/feature.h

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\*

\* File: spl.h

\* Purpose: Interrupt Blocking

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/spl.h

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/mkdoc  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/Makefile

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 \*  
 \* Port Bitmap Macros  
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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APis\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/pbmp.h  
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 \*  
 \* File: sbusdma.h  
 \* Purpose: Maps out structures used for SBUSDMA operations and  
 \* exports routines.  
 \*/

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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/dox/bcm\_pm\_if\_api.c  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
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\*

\* XGS internal PHY read function with AER support.

\*

\* This function accepts a 32-bit PHY register address and will  
\* properly configure clause 45 DEVAD and XAUI lane access.  
\* Please see phymod\_reg.h for additional information.

\*

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/acc/phymod\_tsc\_iblk.c

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```
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*
* File: mos_intr_common.h
*/
```



Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/shared/mos\_intr\_common.h

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\* \$Id: phyctrl.h,v 1.170 2013/08/02 02:38:35 mpall Exp \$

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\*

\* File: phyctrl.h

\*

\* Data structures and function prototypes for PHY register access.

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phyctrl.h

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/\*

\* this header file defines types used in driver services.

\*/

Found in path(s):

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/\*

\* \$Id: phymod.xml,v 1.1.2.5 2013/09/12 10:43:06 nirf Exp \$

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/phy542xx\_diagnostics\_dispatch.c

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/phy542xx\_dispatch.c

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\* \$Id: seahawks\_common.c \$

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/seahawks\_reference\_app/seahawks\_common.c

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*
* AXP management routines
*/
```

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/axp.h  
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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/src/eip62\_level0.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/src/eip160\_device.c  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_eip62.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_eip217.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_list.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_eip201.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_hwpal\_umdevxs.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/src/eip160\_hw\_interface.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_hwpal.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_eip160.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP217/src/eip217\_level0.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/src/eip160\_internal.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_hwpal\_ext.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/src/c\_eip160.h  
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 \*  
 \* File: counter.h  
 \* Purpose: Defines map of counter register addresses, as well  
 \* as structures and routines for driver management of  
 \* packet statistics counters.  
 \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/counter.h  
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false - disable confidentiality protection \*/

/\*\* true - enable confidentiality protection (AES-GCM/CTR operation)\n

false - disable confidentiality protection (AES-GMAC operation) \*/

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\*

\* File: types.h

\* Purpose: SAL type definitions

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sal/types.h

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\* \$Id: phyreg.h,v 1.22 Broadcom SDK \$

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\*

\* File: phyreg.h

\*

\* Data structures and function prototypes for PHY register access.

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APis\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/phyreg.h

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\*

\* File: alloc.h

\* Purpose: Memory allocation

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/alloc.h  
No license file was found, but licenses were detected in source scan.

# Doxyfile 1.5.7

# \$Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.\$

# \$Id\$

# This file describes the settings to be used by the documentation system

# doxygen (www.doxygen.org) for a project

#

# All text after a hash (#) is considered a comment and will be ignored

# The format is:

# TAG = value [value, ...]

# For lists items can also be appended using:

# TAG += value [value, ...]

# Values that contain spaces should be placed between quotes (" ")

#-----

# Project related configuration options

#-----

# This tag specifies the encoding used for all characters in the config file

# that follow. The default is UTF-8 which is also the encoding used for all

# text before the first occurrence of this tag. Doxygen uses libiconv (or the

# iconv built into libc) for the transcoding. See

# <http://www.gnu.org/software/libiconv> for the list of possible encodings.

DOXYFILE\_ENCODING = UTF-8

# The PROJECT\_NAME tag is a single word (or a sequence of words surrounded

# by quotes) that should identify the project.

PROJECT\_NAME = PHYMod

# The PROJECT\_NUMBER tag can be used to enter a project or revision number.

# This could be handy for archiving the generated documentation or

# if some version control system is used.

PROJECT\_NUMBER = 1.1

# The OUTPUT\_DIRECTORY tag is used to specify the (relative or absolute)

# base path where the generated documentation will be put.

# If a relative path is entered, it will be relative to the location

# where doxygen was started. If left blank the current directory will be used.

OUTPUT\_DIRECTORY = .

# If the CREATE\_SUBDIRS tag is set to YES, then doxygen will create  
# 4096 sub-directories (in 2 levels) under the output directory of each output  
# format and will distribute the generated files over these directories.  
# Enabling this option can be useful when feeding doxygen a huge amount of  
# source files, where putting all generated files in the same directory would  
# otherwise cause performance problems for the file system.

CREATE\_SUBDIRS = NO

# The OUTPUT\_LANGUAGE tag is used to specify the language in which all  
# documentation generated by doxygen is written. Doxygen will use this  
# information to generate all constant output in the proper language.  
# The default language is English, other supported languages are:  
# Afrikaans, Arabic, Brazilian, Catalan, Chinese, Chinese-Traditional,  
# Croatian, Czech, Danish, Dutch, Farsi, Finnish, French, German, Greek,  
# Hungarian, Italian, Japanese, Japanese-en (Japanese with English messages),  
# Korean, Korean-en, Lithuanian, Norwegian, Macedonian, Persian, Polish,  
# Portuguese, Romanian, Russian, Serbian, Serbian-Cyrilic, Slovak, Slovene,  
# Spanish, Swedish, and Ukrainian.

OUTPUT\_LANGUAGE = English

# If the BRIEF\_MEMBER\_DESC tag is set to YES (the default) Doxygen will  
# include brief member descriptions after the members that are listed in  
# the file and class documentation (similar to JavaDoc).  
# Set to NO to disable this.

BRIEF\_MEMBER\_DESC = NO

# If the REPEAT\_BRIEF tag is set to YES (the default) Doxygen will prepend  
# the brief description of a member or function before the detailed description.  
# Note: if both HIDE\_UNDOC\_MEMBERS and BRIEF\_MEMBER\_DESC are set to NO, the  
# brief descriptions will be completely suppressed.

REPEAT\_BRIEF = NO

# This tag implements a quasi-intelligent brief description abbreviator  
# that is used to form the text in various listings. Each string  
# in this list, if found as the leading text of the brief description, will be  
# stripped from the text and the result after processing the whole list, is  
# used as the annotated text. Otherwise, the brief description is used as-is.  
# If left blank, the following values are used (" \$name" is automatically  
# replaced with the name of the entity): "The \$name class" "The \$name widget"  
# "The \$name file" "is" "provides" "specifies" "contains"

# "represents" "a" "an" "the"

ABBREVIATE\_BRIEF =

# If the ALWAYS\_DETAILED\_SEC and REPEAT\_BRIEF tags are both set to YES then  
# Doxygen will generate a detailed section even if there is only a brief  
# description.

ALWAYS\_DETAILED\_SEC = NO

# If the INLINE\_INHERITED\_MEMB tag is set to YES, doxygen will show all  
# inherited members of a class in the documentation of that class as if those  
# members were ordinary class members. Constructors, destructors and assignment  
# operators of the base classes will not be shown.

INLINE\_INHERITED\_MEMB = NO

# If the FULL\_PATH\_NAMES tag is set to YES then Doxygen will prepend the full  
# path before file name in the file list and in the header files. If set  
# to NO the shortest path that makes the file name unique will be used.

FULL\_PATH\_NAMES = YES

# If the FULL\_PATH\_NAMES tag is set to YES then the STRIP\_FROM\_PATH tag  
# can be used to strip a user-defined part of the path. Stripping is  
# only done if one of the specified strings matches the left-hand part of  
# the path. The tag can be used to show relative paths in the file list.  
# If left blank the directory from which doxygen is run is used as the  
# path to strip.

STRIP\_FROM\_PATH =

# The STRIP\_FROM\_INC\_PATH tag can be used to strip a user-defined part of  
# the path mentioned in the documentation of a class, which tells  
# the reader which header file to include in order to use a class.  
# If left blank only the name of the header file containing the class  
# definition is used. Otherwise one should specify the include paths that  
# are normally passed to the compiler using the -I flag.

STRIP\_FROM\_INC\_PATH =

# If the SHORT\_NAMES tag is set to YES, doxygen will generate much shorter  
# (but less readable) file names. This can be useful if your file systems  
# doesn't support long names like on DOS, Mac, or CD-ROM.

SHORT\_NAMES = NO

# If the JAVADOC\_AUTOBRIEF tag is set to YES then Doxygen

# will interpret the first line (until the first dot) of a JavaDoc-style  
# comment as the brief description. If set to NO, the JavaDoc  
# comments will behave just like regular Qt-style comments  
# (thus requiring an explicit @brief command for a brief description.)

JAVADOC\_AUTOBRIEF = NO

# If the QT\_AUTOBRIEF tag is set to YES then Doxygen will  
# interpret the first line (until the first dot) of a Qt-style  
# comment as the brief description. If set to NO, the comments  
# will behave just like regular Qt-style comments (thus requiring  
# an explicit \brief command for a brief description.)

QT\_AUTOBRIEF = NO

# The MULTILINE\_CPP\_IS\_BRIEF tag can be set to YES to make Doxygen  
# treat a multi-line C++ special comment block (i.e. a block of `///  
//`  
# comments) as a brief description. This used to be the default behaviour.  
# The new default is to treat a multi-line C++ comment block as a detailed  
# description. Set this tag to YES if you prefer the old behaviour instead.

MULTILINE\_CPP\_IS\_BRIEF = NO

# If the INHERIT\_DOCS tag is set to YES (the default) then an undocumented  
# member inherits the documentation from any documented member that it  
# re-implements.

INHERIT\_DOCS = YES

# If the SEPARATE\_MEMBER\_PAGES tag is set to YES, then doxygen will produce  
# a new page for each member. If set to NO, the documentation of a member will  
# be part of the file/class/namespace that contains it.

SEPARATE\_MEMBER\_PAGES = NO

# The TAB\_SIZE tag can be used to set the number of spaces in a tab.  
# Doxygen uses this value to replace tabs by spaces in code fragments.

TAB\_SIZE = 8

# This tag can be used to specify a number of aliases that acts  
# as commands in the documentation. An alias has the form "name=value".  
# For example adding "sideeffect=\par Side Effects:\n" will allow you to  
# put the command \sideeffect (or @sideeffect) in the documentation, which  
# will result in a user-defined paragraph with heading "Side Effects:".  
# You can put \n's in the value part of an alias to insert newlines.

ALIASES =

# Set the OPTIMIZE\_OUTPUT\_FOR\_C tag to YES if your project consists of C  
# sources only. Doxygen will then generate output that is more tailored for C.  
# For instance, some of the names that are used will be different. The list  
# of all members will be omitted, etc.

OPTIMIZE\_OUTPUT\_FOR\_C = NO

# Set the OPTIMIZE\_OUTPUT\_JAVA tag to YES if your project consists of Java  
# sources only. Doxygen will then generate output that is more tailored for  
# Java. For instance, namespaces will be presented as packages, qualified  
# scopes will look different, etc.

OPTIMIZE\_OUTPUT\_JAVA = NO

# Set the OPTIMIZE\_FOR\_FORTRAN tag to YES if your project consists of Fortran  
# sources only. Doxygen will then generate output that is more tailored for  
# Fortran.

OPTIMIZE\_FOR\_FORTRAN = NO

# Set the OPTIMIZE\_OUTPUT\_VHDL tag to YES if your project consists of VHDL  
# sources. Doxygen will then generate output that is tailored for  
# VHDL.

OPTIMIZE\_OUTPUT\_VHDL = NO

# If you use STL classes (i.e. std::string, std::vector, etc.) but do not want  
# to include (a tag file for) the STL sources as input, then you should  
# set this tag to YES in order to let doxygen match functions declarations and  
# definitions whose arguments contain STL classes (e.g. func(std::string); v.s.  
# func(std::string) {}). This also make the inheritance and collaboration  
# diagrams that involve STL classes more complete and accurate.

BUILTIN\_STL\_SUPPORT = NO

# If you use Microsoft's C++/CLI language, you should set this option to YES to  
# enable parsing support.

CPP\_CLI\_SUPPORT = NO

# Set the SIP\_SUPPORT tag to YES if your project consists of sip sources only.  
# Doxygen will parse them like normal C++ but will assume all classes use public  
# instead of private inheritance when no explicit protection keyword is present.

SIP\_SUPPORT = NO

# For Microsoft's IDL there are propget and propput attributes to indicate getter

# and setter methods for a property. Setting this option to YES (the default)  
# will make doxygen to replace the get and set methods by a property in the  
# documentation. This will only work if the methods are indeed getting or  
# setting a simple type. If this is not the case, or you want to show the  
# methods anyway, you should set this option to NO.

IDL\_PROPERTY\_SUPPORT = YES

# If member grouping is used in the documentation and the DISTRIBUTE\_GROUP\_DOC  
# tag is set to YES, then doxygen will reuse the documentation of the first  
# member in the group (if any) for the other members of the group. By default  
# all members of a group must be documented explicitly.

DISTRIBUTE\_GROUP\_DOC = NO

# Set the SUBGROUPING tag to YES (the default) to allow class member groups of  
# the same type (for instance a group of public functions) to be put as a  
# subgroup of that type (e.g. under the Public Functions section). Set it to  
# NO to prevent subgrouping. Alternatively, this can be done per class using  
# the \nosubgrouping command.

SUBGROUPING = YES

# When TYPEDEF\_HIDES\_STRUCT is enabled, a typedef of a struct, union, or enum  
# is documented as struct, union, or enum with the name of the typedef. So  
# typedef struct TypeS { } TypeT, will appear in the documentation as a struct  
# with name TypeT. When disabled the typedef will appear as a member of a file,  
# namespace, or class. And the struct will be named TypeS. This can typically  
# be useful for C code in case the coding convention dictates that all compound  
# types are typedef'ed and only the typedef is referenced, never the tag name.

TYPEDEF\_HIDES\_STRUCT = NO

# The SYMBOL\_CACHE\_SIZE determines the size of the internal cache use to  
# determine which symbols to keep in memory and which to flush to disk.  
# When the cache is full, less often used symbols will be written to disk.  
# For small to medium size projects (<1000 input files) the default value is  
# probably good enough. For larger projects a too small cache size can cause  
# doxygen to be busy swapping symbols to and from disk most of the time  
# causing a significant performance penalty.  
# If the system has enough physical memory increasing the cache will improve the  
# performance by keeping more symbols in memory. Note that the value works on  
# a logarithmic scale so increasing the size by one will roughly double the  
# memory usage. The cache size is given by this formula:  
# 2^(16+SYMBOL\_CACHE\_SIZE). The valid range is 0..9, the default is 0,  
# corresponding to a cache size of 2^16 = 65536 symbols

SYMBOL\_CACHE\_SIZE = 0



```

#-----
# Build related configuration options
#-----

# If the EXTRACT_ALL tag is set to YES doxygen will assume all entities in
# documentation are documented, even if no documentation was available.
# Private class members and static file members will be hidden unless
# the EXTRACT_PRIVATE and EXTRACT_STATIC tags are set to YES

EXTRACT_ALL          = YES

# If the EXTRACT_PRIVATE tag is set to YES all private members of a class
# will be included in the documentation.

EXTRACT_PRIVATE      = NO

# If the EXTRACT_STATIC tag is set to YES all static members of a file
# will be included in the documentation.

EXTRACT_STATIC       = NO

# If the EXTRACT_LOCAL_CLASSES tag is set to YES classes (and structs)
# defined locally in source files will be included in the documentation.
# If set to NO only classes defined in header files are included.

EXTRACT_LOCAL_CLASSES = YES

# This flag is only useful for Objective-C code. When set to YES local
# methods, which are defined in the implementation section but not in
# the interface are included in the documentation.
# If set to NO (the default) only methods in the interface are included.

EXTRACT_LOCAL_METHODS = NO

# If this flag is set to YES, the members of anonymous namespaces will be
# extracted and appear in the documentation as a namespace called
# 'anonymous_namespace{file}', where file will be replaced with the base
# name of the file that contains the anonymous namespace. By default
# anonymous namespace are hidden.

EXTRACT_ANON_NSPACES = NO

# If the HIDE_UNDOC_MEMBERS tag is set to YES, Doxygen will hide all
# undocumented members of documented classes, files or namespaces.
# If set to NO (the default) these members will be included in the
# various overviews, but no documentation section is generated.
# This option has no effect if EXTRACT_ALL is enabled.

```

HIDE\_UNDOC\_MEMBERS = YES

# If the HIDE\_UNDOC\_CLASSES tag is set to YES, Doxygen will hide all  
# undocumented classes that are normally visible in the class hierarchy.  
# If set to NO (the default) these classes will be included in the various  
# overviews. This option has no effect if EXTRACT\_ALL is enabled.

HIDE\_UNDOC\_CLASSES = YES

# If the HIDE\_FRIEND\_COMPOUNDS tag is set to YES, Doxygen will hide all  
# friend (class|struct|union) declarations.  
# If set to NO (the default) these declarations will be included in the  
# documentation.

HIDE\_FRIEND\_COMPOUNDS = YES

# If the HIDE\_IN\_BODY\_DOCS tag is set to YES, Doxygen will hide any  
# documentation blocks found inside the body of a function.  
# If set to NO (the default) these blocks will be appended to the  
# function's detailed documentation block.

HIDE\_IN\_BODY\_DOCS = YES

# The INTERNAL\_DOCS tag determines if documentation  
# that is typed after a \internal command is included. If the tag is set  
# to NO (the default) then the documentation will be excluded.  
# Set it to YES to include the internal documentation.

INTERNAL\_DOCS = NO

# If the CASE\_SENSE\_NAMES tag is set to NO then Doxygen will only generate  
# file names in lower-case letters. If set to YES upper-case letters are also  
# allowed. This is useful if you have classes or files whose names only differ  
# in case and if your file system supports case sensitive file names. Windows  
# and Mac users are advised to set this option to NO.

CASE\_SENSE\_NAMES = YES

# If the HIDE\_SCOPE\_NAMES tag is set to NO (the default) then Doxygen  
# will show members with their full class and namespace scopes in the  
# documentation. If set to YES the scope will be hidden.

HIDE\_SCOPE\_NAMES = NO

# If the SHOW\_INCLUDE\_FILES tag is set to YES (the default) then Doxygen  
# will put a list of the files that are included by a file in the documentation  
# of that file.

SHOW\_INCLUDE\_FILES = NO

# If the INLINE\_INFO tag is set to YES (the default) then a tag [inline]  
# is inserted in the documentation for inline members.

INLINE\_INFO = YES

# If the SORT\_MEMBER\_DOCS tag is set to YES (the default) then doxygen  
# will sort the (detailed) documentation of file and class members  
# alphabetically by member name. If set to NO the members will appear in  
# declaration order.

SORT\_MEMBER\_DOCS = NO

# If the SORT\_BRIEF\_DOCS tag is set to YES then doxygen will sort the  
# brief documentation of file, namespace and class members alphabetically  
# by member name. If set to NO (the default) the members will appear in  
# declaration order.

SORT\_BRIEF\_DOCS = NO

# If the SORT\_GROUP\_NAMES tag is set to YES then doxygen will sort the  
# hierarchy of group names into alphabetical order. If set to NO (the default)  
# the group names will appear in their defined order.

SORT\_GROUP\_NAMES = NO

# If the SORT\_BY\_SCOPE\_NAME tag is set to YES, the class list will be  
# sorted by fully-qualified names, including namespaces. If set to  
# NO (the default), the class list will be sorted only by class name,  
# not including the namespace part.  
# Note: This option is not very useful if HIDE\_SCOPE\_NAMES is set to YES.  
# Note: This option applies only to the class list, not to the  
# alphabetical list.

SORT\_BY\_SCOPE\_NAME = NO

# The GENERATE\_TODOLIST tag can be used to enable (YES) or  
# disable (NO) the todo list. This list is created by putting \todo  
# commands in the documentation.

GENERATE\_TODOLIST = YES

# The GENERATE\_TESTLIST tag can be used to enable (YES) or  
# disable (NO) the test list. This list is created by putting \test  
# commands in the documentation.

GENERATE\_TESTLIST = YES

# The GENERATE\_BUGLIST tag can be used to enable (YES) or  
# disable (NO) the bug list. This list is created by putting \bug  
# commands in the documentation.

GENERATE\_BUGLIST = YES

# The GENERATE\_DEPRECATEDLIST tag can be used to enable (YES) or  
# disable (NO) the deprecated list. This list is created by putting  
# \deprecated commands in the documentation.

GENERATE\_DEPRECATEDLIST= YES

# The ENABLED\_SECTIONS tag can be used to enable conditional  
# documentation sections, marked by \if sectionname ... \endif.

ENABLED\_SECTIONS =

# The MAX\_INITIALIZER\_LINES tag determines the maximum number of lines  
# the initial value of a variable or define consists of for it to appear in  
# the documentation. If the initializer consists of more lines than specified  
# here it will be hidden. Use a value of 0 to hide initializers completely.  
# The appearance of the initializer of individual variables and defines in the  
# documentation can be controlled using \showinitializer or \hideinitializer  
# command in the documentation regardless of this setting.

MAX\_INITIALIZER\_LINES = 30

# Set the SHOW\_USED\_FILES tag to NO to disable the list of files generated  
# at the bottom of the documentation of classes and structs. If set to YES the  
# list will mention the files that were used to generate the documentation.

SHOW\_USED\_FILES = NO

# If the sources in your project are distributed over multiple directories  
# then setting the SHOW\_DIRECTORIES tag to YES will show the directory hierarchy  
# in the documentation. The default is NO.

#SHOW\_DIRECTORIES = NO

# Set the SHOW\_FILES tag to NO to disable the generation of the Files page.  
# This will remove the Files entry from the Quick Index and from the  
# Folder Tree View (if specified). The default is YES.

SHOW\_FILES = YES

# Set the SHOW\_NAMESPACES tag to NO to disable the generation of the

# Namespaces page. This will remove the Namespaces entry from the Quick Index  
# and from the Folder Tree View (if specified). The default is YES.

SHOW\_NAMESPACES = YES

# The FILE\_VERSION\_FILTER tag can be used to specify a program or script that  
# doxygen should invoke to get the current version for each file (typically from  
# the version control system). Doxygen will invoke the program by executing (via  
# popen()) the command <command> <input-file>, where <command> is the value of  
# the FILE\_VERSION\_FILTER tag, and <input-file> is the name of an input file  
# provided by doxygen. Whatever the program writes to standard output  
# is used as the file version. See the manual for examples.

FILE\_VERSION\_FILTER =

# The LAYOUT\_FILE tag can be used to specify a layout file which will be parsed  
# by doxygen. The layout file controls the global structure of the generated  
# output files in an output format independent way. To create the layout file  
# that represents doxygen's defaults, run doxygen with the -l option. You can  
# optionally specify a file name after the option, if omitted DoxygenLayout.xml  
# will be used as the name of the layout file.

LAYOUT\_FILE =

#-----  
# configuration options related to warning and progress messages  
#-----

# The QUIET tag can be used to turn on/off the messages that are generated  
# by doxygen. Possible values are YES and NO. If left blank NO is used.

QUIET = YES

# The WARNINGS tag can be used to turn on/off the warning messages that are  
# generated by doxygen. Possible values are YES and NO. If left blank  
# NO is used.

WARNINGS = YES

# If WARN\_IF\_UNDOCUMENTED is set to YES, then doxygen will generate warnings  
# for undocumented members. If EXTRACT\_ALL is set to YES then this flag will  
# automatically be disabled.

WARN\_IF\_UNDOCUMENTED = YES

# If WARN\_IF\_DOC\_ERROR is set to YES, doxygen will generate warnings for  
# potential errors in the documentation, such as not documenting some  
# parameters in a documented function, or documenting parameters that

# don't exist or using markup commands wrongly.

WARN\_IF\_DOC\_ERROR = YES

# This WARN\_NO\_PARAMDOC option can be able to get warnings for  
# functions that are documented, but have no documentation for their parameters  
# or return value. If set to NO (the default) doxygen will only warn about  
# wrong or incomplete parameter documentation, but not about the absence of  
# documentation.

WARN\_NO\_PARAMDOC = NO

# The WARN\_FORMAT tag determines the format of the warning messages that  
# doxygen can produce. The string should contain the \$file, \$line, and \$text  
# tags, which will be replaced by the file and line number from which the  
# warning originated and the warning text. Optionally the format may contain  
# \$version, which will be replaced by the version of the file (if it could  
# be obtained via FILE\_VERSION\_FILTER)

WARN\_FORMAT = "\$file:\$line: \$text"

# The WARN\_LOGFILE tag can be used to specify a file to which warning  
# and error messages should be written. If left blank the output is written  
# to stderr.

WARN\_LOGFILE =

#-----  
# configuration options related to the input files  
#-----

# The INPUT tag can be used to specify the files and/or directories that contain  
# documented source files. You may enter file names like "myfile.cpp" or  
# directories like "/usr/src/myproject". Separate the files or directories  
# with spaces.

INPUT = dox/

# This tag can be used to specify the character encoding of the source files  
# that doxygen parses. Internally doxygen uses the UTF-8 encoding, which is  
# also the default input encoding. Doxygen uses libiconv (or the iconv built  
# into libc) for the transcoding. See <http://www.gnu.org/software/libiconv> for  
# the list of possible encodings.

INPUT\_ENCODING = UTF-8

# If the value of the INPUT tag contains directories, you can use the  
# FILE\_PATTERNS tag to specify one or more wildcard pattern (like \*.cpp

# and \*.h) to filter out the source-files in the directories. If left  
# blank the following patterns are tested:  
# \*.c \*.cc \*.cxx \*.cpp \*.c++ \*.java \*.ii \*.ixx \*.ipp \*.i++ \*.inl \*.h \*.hh \*.hxx  
# \*.hpp \*.h++ \*.idl \*.odl \*.cs \*.php \*.php3 \*.inc \*.m \*.mm \*.py \*.f90

FILE\_PATTERNS = \*.c \*.h

# The RECURSIVE tag can be used to turn specify whether or not subdirectories  
# should be searched for input files as well. Possible values are YES and NO.  
# If left blank NO is used.

RECURSIVE = NO

# The EXCLUDE tag can be used to specify files and/or directories that should  
# excluded from the INPUT source files. This way you can easily exclude a  
# subdirectory from a directory tree whose root is specified with the INPUT tag.

EXCLUDE =

# The EXCLUDE\_SYMLINKS tag can be used select whether or not files or  
# directories that are symbolic links (a Unix filesystem feature) are excluded  
# from the input.

EXCLUDE\_SYMLINKS = NO

# If the value of the INPUT tag contains directories, you can use the  
# EXCLUDE\_PATTERNS tag to specify one or more wildcard patterns to exclude  
# certain files from those directories. Note that the wildcards are matched  
# against the file with absolute path, so to exclude all test directories  
# for example use the pattern \*/test/\*

EXCLUDE\_PATTERNS =

# The EXCLUDE\_SYMBOLS tag can be used to specify one or more symbol names  
# (namespaces, classes, functions, etc.) that should be excluded from the  
# output. The symbol name can be a fully qualified name, a word, or if the  
# wildcard \* is used, a substring. Examples: ANamespace, AClass,  
# AClass::ANamespace, ANamespace::\*Test

EXCLUDE\_SYMBOLS = clone

# The EXAMPLE\_PATH tag can be used to specify one or more files or  
# directories that contain example code fragments that are included (see  
# the \include command).

EXAMPLE\_PATH =

# If the value of the EXAMPLE\_PATH tag contains directories, you can use the

# EXAMPLE\_PATTERNS tag to specify one or more wildcard pattern (like \*.cpp  
# and \*.h) to filter out the source-files in the directories. If left  
# blank all files are included.

EXAMPLE\_PATTERNS =

# If the EXAMPLE\_RECURSIVE tag is set to YES then subdirectories will be  
# searched for input files to be used with the \include or \dontinclude  
# commands irrespective of the value of the RECURSIVE tag.  
# Possible values are YES and NO. If left blank NO is used.

EXAMPLE\_RECURSIVE = NO

# The IMAGE\_PATH tag can be used to specify one or more files or  
# directories that contain image that are included in the documentation (see  
# the \image command).

IMAGE\_PATH = /projects/ntsw-sw2/home/ravick/img

# The INPUT\_FILTER tag can be used to specify a program that doxygen should  
# invoke to filter for each input file. Doxygen will invoke the filter program  
# by executing (via popen()) the command <filter> <input-file>, where <filter>  
# is the value of the INPUT\_FILTER tag, and <input-file> is the name of an  
# input file. Doxygen will then use the output that the filter program writes  
# to standard output. If FILTER\_PATTERNS is specified, this tag will be  
# ignored.

INPUT\_FILTER =

# The FILTER\_PATTERNS tag can be used to specify filters on a per file pattern  
# basis. Doxygen will compare the file name with each pattern and apply the  
# filter if there is a match. The filters are a list of the form:  
# pattern=filter (like \*.cpp=my\_cpp\_filter). See INPUT\_FILTER for further  
# info on how filters are used. If FILTER\_PATTERNS is empty, INPUT\_FILTER  
# is applied to all files.

FILTER\_PATTERNS =

# If the FILTER\_SOURCE\_FILES tag is set to YES, the input filter (if set using  
# INPUT\_FILTER) will be used to filter the input files when producing source  
# files to browse (i.e. when SOURCE\_BROWSER is set to YES).

FILTER\_SOURCE\_FILES = NO

#-----  
# configuration options related to source browsing  
#-----



# If the SOURCE\_BROWSER tag is set to YES then a list of source files will  
# be generated. Documented entities will be cross-referenced with these sources.  
# Note: To get rid of all source code in the generated output, make sure also  
# VERBATIM\_HEADERS is set to NO.

SOURCE\_BROWSER = NO

# Setting the INLINE\_SOURCES tag to YES will include the body  
# of functions and classes directly in the documentation.

INLINE\_SOURCES = NO

# Setting the STRIP\_CODE\_COMMENTS tag to YES (the default) will instruct  
# doxygen to hide any special comment blocks from generated source code  
# fragments. Normal C and C++ comments will always remain visible.

STRIP\_CODE\_COMMENTS = YES

# If the REFERENCED\_BY\_RELATION tag is set to YES  
# then for each documented function all documented  
# functions referencing it will be listed.

REFERENCED\_BY\_RELATION = NO

# If the REFERENCES\_RELATION tag is set to YES  
# then for each documented function all documented entities  
# called/used by that function will be listed.

REFERENCES\_RELATION = NO

# If the REFERENCES\_LINK\_SOURCE tag is set to YES (the default)  
# and SOURCE\_BROWSER tag is set to YES, then the hyperlinks from  
# functions in REFERENCES\_RELATION and REFERENCED\_BY\_RELATION lists will  
# link to the source code. Otherwise they will link to the documentation.

REFERENCES\_LINK\_SOURCE = YES

# If the USE\_HTAGS tag is set to YES then the references to source code  
# will point to the HTML generated by the htags(1) tool instead of doxygen  
# built-in source browser. The htags tool is part of GNU's global source  
# tagging system (see <http://www.gnu.org/software/global/global.html>). You  
# will need version 4.8.6 or higher.

USE\_HTAGS = NO

# If the VERBATIM\_HEADERS tag is set to YES (the default) then Doxygen  
# will generate a verbatim copy of the header file for each class for  
# which an include is specified. Set to NO to disable this.

VERBATIM\_HEADERS = NO

#-----  
# configuration options related to the alphabetical class index  
#-----

# If the alphabetical index is enabled (see ALPHABETICAL\_INDEX) then  
# the COLS\_IN\_ALPHA\_INDEX tag can be used to specify the number of columns  
# in which this list will be split (can be a number in the range [1..20])

COLS\_IN\_ALPHA\_INDEX = 5

# In case all classes in a project start with a common prefix, all  
# classes will be put under the same header in the alphabetical index.  
# The IGNORE\_PREFIX tag can be used to specify one or more prefixes that  
# should be ignored while generating the index headers.

IGNORE\_PREFIX =

#-----  
# configuration options related to the HTML output  
#-----

# If the GENERATE\_HTML tag is set to YES (the default) Doxygen will  
# generate HTML output.

GENERATE\_HTML = YES

# The HTML\_OUTPUT tag is used to specify where the HTML docs will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank 'html' will be used as the default path.

HTML\_OUTPUT = html

# The HTML\_FILE\_EXTENSION tag can be used to specify the file extension for  
# each generated HTML page (for example: .htm,.php,.asp). If it is left blank  
# doxygen will generate files with .html extension.

HTML\_FILE\_EXTENSION = .html

# The HTML\_HEADER tag can be used to specify a personal HTML header for  
# each generated HTML page. If it is left blank doxygen will generate a  
# standard header.

HTML\_HEADER =

# The HTML\_FOOTER tag can be used to specify a personal HTML footer for

# each generated HTML page. If it is left blank doxygen will generate a  
# standard footer.

HTML\_FOOTER =

# The HTML\_STYLESHEET tag can be used to specify a user-defined cascading  
# style sheet that is used by each HTML page. It can be used to  
# fine-tune the look of the HTML output. If the tag is left blank doxygen  
# will generate a default style sheet. Note that doxygen will try to copy  
# the style sheet file to the HTML output directory, so don't put your own  
# stylesheet in the HTML output directory as well, or it will be erased!

HTML\_STYLESHEET =

# If the HTML\_ALIGN\_MEMBERS tag is set to YES, the members of classes,  
# files or namespaces will be aligned in HTML using tables. If set to  
# NO a bullet list will be used.

#HTML\_ALIGN\_MEMBERS = YES

# If the HTML\_DYNAMIC\_SECTIONS tag is set to YES then the generated HTML  
# documentation will contain sections that can be hidden and shown after the  
# page has loaded. For this to work a browser that supports  
# JavaScript and DHTML is required (for instance Mozilla 1.0+, Firefox  
# Netscape 6.0+, Internet explorer 5.0+, Konqueror, or Safari).

HTML\_DYNAMIC\_SECTIONS = NO

# If the GENERATE\_DOCSET tag is set to YES, additional index files  
# will be generated that can be used as input for Apple's Xcode 3  
# integrated development environment, introduced with OSX 10.5 (Leopard).  
# To create a documentation set, doxygen will generate a Makefile in the  
# HTML output directory. Running make will produce the docset in that  
# directory and running "make install" will install the docset in  
# ~/Library/Developer/Shared/Documentation/DocSets so that Xcode will find  
# it at startup.  
# See <http://developer.apple.com/tools/creatingdocsetswithdoxygen.html> for more information.

GENERATE\_DOCSET = NO

# When GENERATE\_DOCSET tag is set to YES, this tag determines the name of the  
# feed. A documentation feed provides an umbrella under which multiple  
# documentation sets from a single provider (such as a company or product suite)  
# can be grouped.

DOCSET\_FEEDNAME = "Doxygen generated docs"

# When GENERATE\_DOCSET tag is set to YES, this tag specifies a string that

# should uniquely identify the documentation set bundle. This should be a  
# reverse domain-name style string, e.g. com.mycompany.MyDocSet. Doxygen  
# will append .docset to the name.

DOCSET\_BUNDLE\_ID = org.doxygen.Project

# If the GENERATE\_HTMLHELP tag is set to YES, additional index files  
# will be generated that can be used as input for tools like the  
# Microsoft HTML help workshop to generate a compiled HTML help file (.chm)  
# of the generated HTML documentation.

GENERATE\_HTMLHELP = NO

# If the GENERATE\_HTMLHELP tag is set to YES, the CHM\_FILE tag can  
# be used to specify the file name of the resulting .chm file. You  
# can add a path in front of the file if the result should not be  
# written to the html output directory.

CHM\_FILE =

# If the GENERATE\_HTMLHELP tag is set to YES, the HHC\_LOCATION tag can  
# be used to specify the location (absolute path including file name) of  
# the HTML help compiler (hhc.exe). If non-empty doxygen will try to run  
# the HTML help compiler on the generated index.hhp.

HHC\_LOCATION =

# If the GENERATE\_HTMLHELP tag is set to YES, the GENERATE\_CHI flag  
# controls if a separate .chi index file is generated (YES) or that  
# it should be included in the master .chm file (NO).

GENERATE\_CHI = NO

# If the GENERATE\_HTMLHELP tag is set to YES, the CHM\_INDEX\_ENCODING  
# is used to encode HtmlHelp index (hhk), content (hhc) and project file  
# content.

CHM\_INDEX\_ENCODING =

# If the GENERATE\_HTMLHELP tag is set to YES, the BINARY\_TOC flag  
# controls whether a binary table of contents is generated (YES) or a  
# normal table of contents (NO) in the .chm file.

BINARY\_TOC = NO

# The TOC\_EXPAND flag can be set to YES to add extra items for group members  
# to the contents of the HTML help documentation and to the tree view.

TOC\_EXPAND = NO

# If the GENERATE\_QHP tag is set to YES and both QHP\_NAMESPACE and QHP\_VIRTUAL\_FOLDER  
# are set, an additional index file will be generated that can be used as input for  
# Qt's qhelpgenerator to generate a Qt Compressed Help (.qch) of the generated  
# HTML documentation.

GENERATE\_QHP = NO

# If the QHG\_LOCATION tag is specified, the QCH\_FILE tag can  
# be used to specify the file name of the resulting .qch file.  
# The path specified is relative to the HTML output folder.

QCH\_FILE =

# The QHP\_NAMESPACE tag specifies the namespace to use when generating  
# Qt Help Project output. For more information please see  
# <a href="http://doc.trolltech.com/qthelpproject.html#namespace">Qt Help Project / Namespace</a>.

QHP\_NAMESPACE = org.doxygen.Project

# The QHP\_VIRTUAL\_FOLDER tag specifies the namespace to use when generating  
# Qt Help Project output. For more information please see  
# <a href="http://doc.trolltech.com/qthelpproject.html#virtual-folders">Qt Help Project / Virtual Folders</a>.

QHP\_VIRTUAL\_FOLDER = doc

# If the GENERATE\_QHP tag is set to YES, the QHG\_LOCATION tag can  
# be used to specify the location of Qt's qhelpgenerator.  
# If non-empty doxygen will try to run qhelpgenerator on the generated  
# .qhp file .

QHG\_LOCATION =

# The DISABLE\_INDEX tag can be used to turn on/off the condensed index at  
# top of each HTML page. The value NO (the default) enables the index and  
# the value YES disables it.

DISABLE\_INDEX = NO

# This tag can be used to set the number of enum values (range [1..20])  
# that doxygen will group on one line in the generated HTML documentation.

ENUM\_VALUES\_PER\_LINE = 4

# The GENERATE\_TREEVIEW tag is used to specify whether a tree-like index  
# structure should be generated to display hierarchical information.  
# If the tag value is set to FRAME, a side panel will be generated

# containing a tree-like index structure (just like the one that  
# is generated for HTML Help). For this to work a browser that supports  
# JavaScript, DHTML, CSS and frames is required (for instance Mozilla 1.0+,  
# Netscape 6.0+, Internet explorer 5.0+, or Konqueror). Windows users are  
# probably better off using the HTML help feature. Other possible values  
# for this tag are: HIERARCHIES, which will generate the Groups, Directories,  
# and Class Hierarchy pages using a tree view instead of an ordered list;  
# ALL, which combines the behavior of FRAME and HIERARCHIES; and NONE, which  
# disables this behavior completely. For backwards compatibility with previous  
# releases of Doxygen, the values YES and NO are equivalent to FRAME and NONE  
# respectively.

GENERATE\_TREEVIEW = NONE

# If the treeview is enabled (see GENERATE\_TREEVIEW) then this tag can be  
# used to set the initial width (in pixels) of the frame in which the tree  
# is shown.

TREEVIEW\_WIDTH = 250

# Use this tag to change the font size of Latex formulas included  
# as images in the HTML documentation. The default is 10. Note that  
# when you change the font size after a successful doxygen run you need  
# to manually remove any form\_\*.png images from the HTML output directory  
# to force them to be regenerated.

FORMULA\_FONTSIZE = 10

#-----  
# configuration options related to the LaTeX output  
#-----

# If the GENERATE\_LATEX tag is set to YES (the default) Doxygen will  
# generate Latex output.

GENERATE\_LATEX = NO

# The LATEX\_OUTPUT tag is used to specify where the LaTeX docs will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank 'latex' will be used as the default path.

LATEX\_OUTPUT = latex

# The LATEX\_CMD\_NAME tag can be used to specify the LaTeX command name to be  
# invoked. If left blank 'latex' will be used as the default command name.

LATEX\_CMD\_NAME = latex

# The MAKEINDEX\_CMD\_NAME tag can be used to specify the command name to  
# generate index for LaTeX. If left blank `makeindex' will be used as the  
# default command name.

MAKEINDEX\_CMD\_NAME = makeindex

# If the COMPACT\_LATEX tag is set to YES Doxygen generates more compact  
# LaTeX documents. This may be useful for small projects and may help to  
# save some trees in general.

COMPACT\_LATEX = NO

# The PAPER\_TYPE tag can be used to set the paper type that is used  
# by the printer. Possible values are: a4, a4wide, letter, legal and  
# executive. If left blank a4wide will be used.

PAPER\_TYPE = a4wide

# The EXTRA\_PACKAGES tag can be to specify one or more names of LaTeX  
# packages that should be included in the LaTeX output.

EXTRA\_PACKAGES =

# The LATEX\_HEADER tag can be used to specify a personal LaTeX header for  
# the generated latex document. The header should contain everything until  
# the first chapter. If it is left blank doxygen will generate a  
# standard header. Notice: only use this tag if you know what you are doing!

LATEX\_HEADER =

# If the PDF\_HYPERLINKS tag is set to YES, the LaTeX that is generated  
# is prepared for conversion to pdf (using ps2pdf). The pdf file will  
# contain links (just like the HTML output) instead of page references  
# This makes the output suitable for online browsing using a pdf viewer.

PDF\_HYPERLINKS = YES

# If the USE\_PDFLATEX tag is set to YES, pdflatex will be used instead of  
# plain latex in the generated Makefile. Set this option to YES to get a  
# higher quality PDF documentation.

USE\_PDFLATEX = YES

# If the LATEX\_BATCHMODE tag is set to YES, doxygen will add the `\batchmode`.  
# command to the generated LaTeX files. This will instruct LaTeX to keep  
# running if errors occur, instead of asking the user for help.  
# This option is also used when generating formulas in HTML.

LATEX\_BATCHMODE = NO

# If LATEX\_HIDE\_INDICES is set to YES then doxygen will not  
# include the index chapters (such as File Index, Compound Index, etc.)  
# in the output.

LATEX\_HIDE\_INDICES = NO

#-----  
# configuration options related to the RTF output  
#-----

# If the GENERATE\_RTF tag is set to YES Doxygen will generate RTF output  
# The RTF output is optimized for Word 97 and may not look very pretty with  
# other RTF readers or editors.

GENERATE\_RTF = YES

# The RTF\_OUTPUT tag is used to specify where the RTF docs will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank `rtf' will be used as the default path.

RTF\_OUTPUT = rtf

# If the COMPACT\_RTF tag is set to YES Doxygen generates more compact  
# RTF documents. This may be useful for small projects and may help to  
# save some trees in general.

COMPACT\_RTF = NO

# If the RTF\_HYPERLINKS tag is set to YES, the RTF that is generated  
# will contain hyperlink fields. The RTF file will  
# contain links (just like the HTML output) instead of page references.  
# This makes the output suitable for online browsing using WORD or other  
# programs which support those fields.  
# Note: wordpad (write) and others do not support links.

RTF\_HYPERLINKS = NO

# Load stylesheet definitions from file. Syntax is similar to doxygen's  
# config file, i.e. a series of assignments. You only have to provide  
# replacements, missing definitions are set to their default value.

RTF\_STYLESHEET\_FILE =

# Set optional variables used in the generation of an rtf document.  
# Syntax is similar to doxygen's config file.



RTF\_EXTENSIONS\_FILE =

#-----  
# configuration options related to the man page output  
#-----

# If the GENERATE\_MAN tag is set to YES (the default) Doxygen will  
# generate man pages

GENERATE\_MAN = NO

# The MAN\_OUTPUT tag is used to specify where the man pages will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank `man' will be used as the default path.

MAN\_OUTPUT = man

# The MAN\_EXTENSION tag determines the extension that is added to  
# the generated man pages (default is the subroutine's section .3)

MAN\_EXTENSION = .3

# If the MAN\_LINKS tag is set to YES and Doxygen generates man output,  
# then it will generate one additional man file for each entity  
# documented in the real man page(s). These additional files  
# only source the real man page, but without them the man command  
# would be unable to find the correct page. The default is NO.

MAN\_LINKS = NO

#-----  
# configuration options related to the XML output  
#-----

# If the GENERATE\_XML tag is set to YES Doxygen will  
# generate an XML file that captures the structure of  
# the code including all documentation.

GENERATE\_XML = YES

# The XML\_OUTPUT tag is used to specify where the XML pages will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank `xml' will be used as the default path.

XML\_OUTPUT = xml

# The XML\_SCHEMA tag can be used to specify an XML schema,  
# which can be used by a validating XML parser to check the

# syntax of the XML files.

XML\_SCHEMA =

# The XML\_DTD tag can be used to specify an XML DTD,  
# which can be used by a validating XML parser to check the  
# syntax of the XML files.

XML\_DTD =

# If the XML\_PROGRAMLISTING tag is set to YES Doxygen will  
# dump the program listings (including syntax highlighting  
# and cross-referencing information) to the XML output. Note that  
# enabling this will significantly increase the size of the XML output.

XML\_PROGRAMLISTING = YES

#-----  
# configuration options for the AutoGen Definitions output  
#-----

# If the GENERATE\_AUTOGEN\_DEF tag is set to YES Doxygen will  
# generate an AutoGen Definitions (see autogen.sf.net) file  
# that captures the structure of the code including all  
# documentation. Note that this feature is still experimental  
# and incomplete at the moment.

GENERATE\_AUTOGEN\_DEF = NO

#-----  
# configuration options related to the Perl module output  
#-----

# If the GENERATE\_PERLMOD tag is set to YES Doxygen will  
# generate a Perl module file that captures the structure of  
# the code including all documentation. Note that this  
# feature is still experimental and incomplete at the  
# moment.

GENERATE\_PERLMOD = NO

# If the PERLMOD\_LATEX tag is set to YES Doxygen will generate  
# the necessary Makefile rules, Perl scripts and LaTeX code to be able  
# to generate PDF and DVI output from the Perl module output.

PERLMOD\_LATEX = NO

# If the PERLMOD\_PRETTY tag is set to YES the Perl module output will be

# nicely formatted so it can be parsed by a human reader. This is useful  
# if you want to understand what is going on. On the other hand, if this  
# tag is set to NO the size of the Perl module output will be much smaller  
# and Perl will parse it just the same.

PERLMOD\_PRETTY = YES

# The names of the make variables in the generated doxyrules.make file  
# are prefixed with the string contained in PERLMOD\_MAKEVAR\_PREFIX.  
# This is useful so different doxyrules.make files included by the same  
# Makefile don't overwrite each other's variables.

PERLMOD\_MAKEVAR\_PREFIX =

#-----  
# Configuration options related to the preprocessor  
#-----

# If the ENABLE\_PREPROCESSING tag is set to YES (the default) Doxygen will  
# evaluate all C-preprocessor directives found in the sources and include  
# files.

ENABLE\_PREPROCESSING = YES

# If the MACRO\_EXPANSION tag is set to YES Doxygen will expand all macro  
# names in the source code. If set to NO (the default) only conditional  
# compilation will be performed. Macro expansion can be done in a controlled  
# way by setting EXPAND\_ONLY\_PREDEF to YES.

MACRO\_EXPANSION = YES

# If the EXPAND\_ONLY\_PREDEF and MACRO\_EXPANSION tags are both set to YES  
# then the macro expansion is limited to the macros specified with the  
# PREDEFINED and EXPAND\_AS\_DEFINED tags.

EXPAND\_ONLY\_PREDEF = YES

# If the SEARCH\_INCLUDES tag is set to YES (the default) the includes files  
# in the INCLUDE\_PATH (see below) will be search if a #include is found.

SEARCH\_INCLUDES = YES

# The INCLUDE\_PATH tag can be used to specify one or more directories that  
# contain include files that are not input files but should be processed by  
# the preprocessor.

INCLUDE\_PATH =

# You can use the INCLUDE\_FILE\_PATTERNS tag to specify one or more wildcard  
# patterns (like \*.h and \*.hpp) to filter out the header-files in the  
# directories. If left blank, the patterns specified with FILE\_PATTERNS will  
# be used.

INCLUDE\_FILE\_PATTERNS =

# The PREDEFINED tag can be used to specify one or more macro names that  
# are defined before the preprocessor is started (similar to the -D option of  
# gcc). The argument of the tag is a list of macros of the form: name  
# or name=definition (no spaces). If the definition and the = are  
# omitted =1 is assumed. To prevent a macro definition from being  
# undefined via #undef or recursively expanded use the := operator  
# instead of the = operator.

PREDEFINED = INCLUDE\_XGXS\_TEMOD PHYMOD\_DEBUG\_ERROR  
PHYMOD\_DEBUG\_VERBOSE PHYMOD\_USLEEP PHYMOD\_SLEEP PHYMOD\_MALLOC  
PHYMOD\_FREE PHYMOD\_MEMSET PHYMOD\_MEMCPY PHYMOD\_STRCMP

# If the MACRO\_EXPANSION and EXPAND\_ONLY\_PREDEF tags are set to YES then  
# this tag can be used to specify a list of macro names that should be expanded.  
# The macro definition that is found in the sources will be used.  
# Use the PREDEFINED tag if you want to use a different macro definition.

EXPAND\_AS\_DEFINED =

# If the SKIP\_FUNCTION\_MACROS tag is set to YES (the default) then  
# doxygen's preprocessor will remove all function-like macros that are alone  
# on a line, have an all uppercase name, and do not end with a semicolon. Such  
# function macros are typically used for boiler-plate code, and will confuse  
# the parser if not removed.

SKIP\_FUNCTION\_MACROS = YES

#-----  
# Configuration::additions related to external references  
#-----

# The TAGFILES option can be used to specify one or more tagfiles.  
# Optionally an initial location of the external documentation  
# can be added for each tagfile. The format of a tag file without  
# this location is as follows:  
# TAGFILES = file1 file2 ...  
# Adding location for the tag files is done as follows:  
# TAGFILES = file1=loc1 "file2 = loc2" ...  
# where "loc1" and "loc2" can be relative or absolute paths or  
# URLs. If a location is present for each tag, the installdox tool  
# does not have to be run to correct the links.

# Note that each tag file must have a unique name  
# (where the name does NOT include the path)  
# If a tag file is not located in the directory in which doxygen  
# is run, you must also specify the path to the tagfile here.

TAGFILES =

# When a file name is specified after GENERATE\_TAGFILE, doxygen will create  
# a tag file that is based on the input files it reads.

GENERATE\_TAGFILE =

# If the ALLEXTERNALS tag is set to YES all external classes will be listed  
# in the class index. If set to NO only the inherited external classes  
# will be listed.

ALLEXTERNALS = NO

# If the EXTERNAL\_GROUPS tag is set to YES all external groups will be listed  
# in the modules index. If set to NO, only the current project's groups will  
# be listed.

EXTERNAL\_GROUPS = YES

# The PERL\_PATH should be the absolute path and name of the perl script  
# interpreter (i.e. the result of `which perl').

PERL\_PATH = /usr/bin/perl

#-----  
# Configuration options related to the dot tool  
#-----

# If the CLASS\_DIAGRAMS tag is set to YES (the default) Doxygen will  
# generate a inheritance diagram (in HTML, RTF and LaTeX) for classes with base  
# or super classes. Setting the tag to NO turns the diagrams off. Note that  
# this option is superseded by the HAVE\_DOT option below. This is only a  
# fallback. It is recommended to install and use dot, since it yields more  
# powerful graphs.

CLASS\_DIAGRAMS = YES

# You can define message sequence charts within doxygen comments using the \msc  
# command. Doxygen will then run the mscgen tool (see  
# <http://www.mcternan.me.uk/mscgen/>) to produce the chart and insert it in the  
# documentation. The MSCGEN\_PATH tag allows you to specify the directory where  
# the mscgen tool resides. If left empty the tool is assumed to be found in the  
# default search path.

MSCGEN\_PATH =

# If set to YES, the inheritance and collaboration graphs will hide  
# inheritance and usage relations if the target is undocumented  
# or is not a class.

HIDE\_UNDOC\_RELATIONS = YES

# If you set the HAVE\_DOT tag to YES then doxygen will assume the dot tool is  
# available from the path. This tool is part of Graphviz, a graph visualization  
# toolkit from AT&T and Lucent Bell Labs. The other options in this section  
# have no effect if this option is set to NO (the default)

HAVE\_DOT = YES

# By default doxygen will write a font called FreeSans.ttf to the output  
# directory and reference it in all dot files that doxygen generates. This  
# font does not include all possible unicode characters however, so when you need  
# these (or just want a differently looking font) you can specify the font name  
# using DOT\_FONTNAME. You need need to make sure dot is able to find the font,  
# which can be done by putting it in a standard location or by setting the  
# DOTFONTPATH environment variable or by setting DOT\_FONTPATH to the directory  
# containing the font.

DOT\_FONTNAME = FreeSans

# By default doxygen will tell dot to use the output directory to look for the  
# FreeSans.ttf font (which doxygen will put there itself). If you specify a  
# different font using DOT\_FONTNAME you can set the path where dot  
# can find it using this tag.

DOT\_FONTPATH =

# If the CLASS\_GRAPH and HAVE\_DOT tags are set to YES then doxygen  
# will generate a graph for each documented class showing the direct and  
# indirect inheritance relations. Setting this tag to YES will force the  
# the CLASS\_DIAGRAMS tag to NO.

CLASS\_GRAPH = YES

# If the COLLABORATION\_GRAPH and HAVE\_DOT tags are set to YES then doxygen  
# will generate a graph for each documented class showing the direct and  
# indirect implementation dependencies (inheritance, containment, and  
# class references variables) of the class with other documented classes.

COLLABORATION\_GRAPH = YES

# If the GROUP\_GRAPHs and HAVE\_DOT tags are set to YES then doxygen  
# will generate a graph for groups, showing the direct groups dependencies

GROUP\_GRAPHs = YES

# If the UML\_LOOK tag is set to YES doxygen will generate inheritance and  
# collaboration diagrams in a style similar to the OMG's Unified Modeling  
# Language.

UML\_LOOK = NO

# If set to YES, the inheritance and collaboration graphs will show the  
# relations between templates and their instances.

TEMPLATE\_RELATIONS = NO

# If the ENABLE\_PREPROCESSING, SEARCH\_INCLUDES, INCLUDE\_GRAPH, and HAVE\_DOT  
# tags are set to YES then doxygen will generate a graph for each documented  
# file showing the direct and indirect include dependencies of the file with  
# other documented files.

INCLUDE\_GRAPH = YES

# If the ENABLE\_PREPROCESSING, SEARCH\_INCLUDES, INCLUDED\_BY\_GRAPH, and  
# HAVE\_DOT tags are set to YES then doxygen will generate a graph for each  
# documented header file showing the documented files that directly or  
# indirectly include this file.

INCLUDED\_BY\_GRAPH = YES

# If the CALL\_GRAPH and HAVE\_DOT options are set to YES then  
# doxygen will generate a call dependency graph for every global function  
# or class method. Note that enabling this option will significantly increase  
# the time of a run. So in most cases it will be better to enable call graphs  
# for selected functions only using the \callgraph command.

CALL\_GRAPH = NO

# If the CALLER\_GRAPH and HAVE\_DOT tags are set to YES then  
# doxygen will generate a caller dependency graph for every global function  
# or class method. Note that enabling this option will significantly increase  
# the time of a run. So in most cases it will be better to enable caller  
# graphs for selected functions only using the \callergraph command.

CALLER\_GRAPH = NO

# If the GRAPHICAL\_HIERARCHY and HAVE\_DOT tags are set to YES then doxygen  
# will graphical hierarchy of all classes instead of a textual one.

GRAPHICAL\_HIERARCHY = YES

# If the DIRECTORY\_GRAPH, SHOW\_DIRECTORIES and HAVE\_DOT tags are set to YES  
# then doxygen will show the dependencies a directory has on other directories  
# in a graphical way. The dependency relations are determined by the #include  
# relations between the files in the directories.

DIRECTORY\_GRAPH = YES

# The DOT\_IMAGE\_FORMAT tag can be used to set the image format of the images  
# generated by dot. Possible values are png, jpg, or gif  
# If left blank png will be used.

DOT\_IMAGE\_FORMAT = png

# The tag DOT\_PATH can be used to specify the path where the dot tool can be  
# found. If left blank, it is assumed the dot tool can be found in the path.

DOT\_PATH =

# The DOTFILE\_DIRS tag can be used to specify one or more directories that  
# contain dot files that are included in the documentation (see the  
# \dotfile command).

DOTFILE\_DIRS =

# The DOT\_GRAPH\_MAX\_NODES tag can be used to set the maximum number of  
# nodes that will be shown in the graph. If the number of nodes in a graph  
# becomes larger than this value, doxygen will truncate the graph, which is  
# visualized by representing a node as a red box. Note that doxygen if the  
# number of direct children of the root node in a graph is already larger than  
# DOT\_GRAPH\_MAX\_NODES then the graph will not be shown at all. Also note  
# that the size of a graph can be further restricted by MAX\_DOT\_GRAPH\_DEPTH.

DOT\_GRAPH\_MAX\_NODES = 50

# The MAX\_DOT\_GRAPH\_DEPTH tag can be used to set the maximum depth of the  
# graphs generated by dot. A depth value of 3 means that only nodes reachable  
# from the root by following a path via at most 3 edges will be shown. Nodes  
# that lay further from the root node will be omitted. Note that setting this  
# option to 1 or 2 may greatly reduce the computation time needed for large  
# code bases. Also note that the size of a graph can be further restricted by  
# DOT\_GRAPH\_MAX\_NODES. Using a depth of 0 means no depth restriction.

MAX\_DOT\_GRAPH\_DEPTH = 0

# Set the DOT\_TRANSPARENT tag to YES to generate images with a transparent



# background. This is disabled by default, because dot on Windows does not  
# seem to support this out of the box. Warning: Depending on the platform used,  
# enabling this option may lead to badly anti-aliased labels on the edges of  
# a graph (i.e. they become hard to read).

DOT\_TRANSPARENT = NO

# Set the DOT\_MULTI\_TARGETS tag to YES allow dot to generate multiple output  
# files in one run (i.e. multiple -o and -T options on the command line). This  
# makes dot run faster, but since only newer versions of dot (>1.8.10)  
# support this, this feature is disabled by default.

DOT\_MULTI\_TARGETS = NO

# If the GENERATE\_LEGEND tag is set to YES (the default) Doxygen will  
# generate a legend page explaining the meaning of the various boxes and  
# arrows in the dot generated graphs.

GENERATE\_LEGEND = YES

# If the DOT\_CLEANUP tag is set to YES (the default) Doxygen will  
# remove the intermediate dot files that are used to generate  
# the various graphs.

DOT\_CLEANUP = YES

#-----  
# Configuration::additions related to the search engine  
#-----

# The SEARCHENGINE tag specifies whether or not a search engine should be  
# used. If set to NO the values of all tags below this one will be ignored.

SEARCHENGINE = NO

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
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\* File: soc/dcb.h

\* Purpose: Define dma control block (DCB) operations

\* A uniform set of operations is defined here and loaded

\* into SOC\_CONTROL during initialization.

\*/

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/dcb.h

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\*

\* File: socdma.h

\* Purpose: Maps out structures used for DMA operations and

\* exports routines.

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APis\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/dma.h  
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\* File: enumgen.h

\* Purpose: Defines a set of Macros for managing enums and associated  
\* string arrays.

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/enumgen.h

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\* \$Id: phymod\_definitions.h,v 1.2.2.12 2013/09/03 06:54:51 dayad Exp \$

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\* Shell diagnostics of Phymod

/\*

\*/

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_util.h

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 \*  
 \*  
 \* Its contents are not used directly by applications; it is used only  
 \* by header files of parent APIs which need to define port modes.  
 \*/

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/oam.h

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\*

\* File: ccmdma.h

\* Purpose: Maps out structures used for CCMDMA operations and  
\* exports routines.

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ccmdma.h  
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\* \$Id: types.h,v 1.4 Broadcom SDK \$

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\*

\* File: types.h

\* Purpose:

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/types.h

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```
/*
* $Id: port.h,v 1.120 2013/09/18 09:18:37 galrotem Exp $
* $Copyright: (c) 2005 Broadcom Corp.
* All Rights Reserved.$
*
* This file defines common network port parameters.
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define port parameters.
*/
```

Found in path(s):

```
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/port.h
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* https://essoemsupport.insidesecure.com.
* In case you do not have an account for this system, please send an e-mail
* to ESSEmbeddedHW-Support@insidesecure.com.
*****/
```

Found in path(s):

```
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/common/c_adapter_
eip160.h
No license file was found, but licenses were detected in source scan.
```

<li>confidentiality\_offset

Found in path(s):

```
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/html/functions_vars_0x63.html
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/html/functions_0x63.html
```

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```
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*
* Compiler Specific defines and options
*/
```

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sal/compiler.h  
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- \*
- \* socregs.c is missing some information about tables, including the
- \* minimum and maximum indices, a user-friendly names for the tables,
- \* and table descriptions. socmem\_info\_t is a parallel structure
- \* indexed by soc\_mem\_t that contains this information.
- \*
- \* CBP memory consists of the tables MMU\_MEMORIES1\_xx, which are of
- \* varying lengths and widths, and the transaction queue memories
- \* MMU\_MEMORIES2\_xx.
- \*/

Found in path(s):

- \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
- gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/mem.h

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*****/

```

Found in path(s):

- \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
- gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/adapter\_xtsecy.c
- \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
- gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/incl/api\_xtsecy.h
- \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
- gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/SABuilder\_MACsec/src/sa\_builder\_internal.h
- \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
- gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/SABuilder\_MACsec/src/sa\_builder\_macsec.c
- \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
- gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/SABuilder\_MACsec/src/c\_sa\_builder\_macsec.h
- \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
- gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/incl/api\_xtsecy\_stats.h
- \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
- gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/incl/api\_xtsecy\_notify.

h

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/SABuilder\_MACsec/src/sa\_builder\_eip165.c  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/SABuilder\_MACsec/incl/sa\_builder\_macsec.h  
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\*  
\* File: rx.h  
\* Purpose: Packet Receive Reason Types shared between BCM and SOC layers  
\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/rx.h  
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- \*
- \* File:     drv.h
- \* Purpose:   Link Layer interface (PHY)
- \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phy/drv.h

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# Doxyfile 1.5.7

# \$Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.\$

# \$Id\$

# This file describes the settings to be used by the documentation system

# doxygen (www.doxygen.org) for a project

#

# All text after a hash (#) is considered a comment and will be ignored

# The format is:

#     TAG = value [value, ...]

# For lists items can also be appended using:

#     TAG += value [value, ...]

# Values that contain spaces should be placed between quotes (" ")

#-----

# Project related configuration options

#-----

# This tag specifies the encoding used for all characters in the config file

# that follow. The default is UTF-8 which is also the encoding used for all

# text before the first occurrence of this tag. Doxygen uses libiconv (or the

# iconv built into libc) for the transcoding. See

# <http://www.gnu.org/software/libiconv> for the list of possible encodings.

DOXYFILE\_ENCODING     = UTF-8

# The PROJECT\_NAME tag is a single word (or a sequence of words surrounded

# by quotes) that should identify the project.

PROJECT\_NAME         = PHY\_SW



# The PROJECT\_NUMBER tag can be used to enter a project or revision number.  
# This could be handy for archiving the generated documentation or  
# if some version control system is used.

PROJECT\_NUMBER =

# The OUTPUT\_DIRECTORY tag is used to specify the (relative or absolute)  
# base path where the generated documentation will be put.  
# If a relative path is entered, it will be relative to the location  
# where doxygen was started. If left blank the current directory will be used.

OUTPUT\_DIRECTORY = .

# If the CREATE\_SUBDIRS tag is set to YES, then doxygen will create  
# 4096 sub-directories (in 2 levels) under the output directory of each output  
# format and will distribute the generated files over these directories.  
# Enabling this option can be useful when feeding doxygen a huge amount of  
# source files, where putting all generated files in the same directory would  
# otherwise cause performance problems for the file system.

CREATE\_SUBDIRS = NO

# The OUTPUT\_LANGUAGE tag is used to specify the language in which all  
# documentation generated by doxygen is written. Doxygen will use this  
# information to generate all constant output in the proper language.  
# The default language is English, other supported languages are:  
# Afrikaans, Arabic, Brazilian, Catalan, Chinese, Chinese-Traditional,  
# Croatian, Czech, Danish, Dutch, Farsi, Finnish, French, German, Greek,  
# Hungarian, Italian, Japanese, Japanese-en (Japanese with English messages),  
# Korean, Korean-en, Lithuanian, Norwegian, Macedonian, Persian, Polish,  
# Portuguese, Romanian, Russian, Serbian, Serbian-Cyrilic, Slovak, Slovene,  
# Spanish, Swedish, and Ukrainian.

OUTPUT\_LANGUAGE = English

# If the BRIEF\_MEMBER\_DESC tag is set to YES (the default) Doxygen will  
# include brief member descriptions after the members that are listed in  
# the file and class documentation (similar to JavaDoc).  
# Set to NO to disable this.

BRIEF\_MEMBER\_DESC = NO

# If the REPEAT\_BRIEF tag is set to YES (the default) Doxygen will prepend  
# the brief description of a member or function before the detailed description.  
# Note: if both HIDE\_UNDOC\_MEMBERS and BRIEF\_MEMBER\_DESC are set to NO, the  
# brief descriptions will be completely suppressed.

REPEAT\_BRIEF = NO

# This tag implements a quasi-intelligent brief description abbreviator  
# that is used to form the text in various listings. Each string  
# in this list, if found as the leading text of the brief description, will be  
# stripped from the text and the result after processing the whole list, is  
# used as the annotated text. Otherwise, the brief description is used as-is.  
# If left blank, the following values are used (" \$name" is automatically  
# replaced with the name of the entity): "The \$name class" "The \$name widget"  
# "The \$name file" "is" "provides" "specifies" "contains"  
# "represents" "a" "an" "the"

ABBREVIATE\_BRIEF =

# If the ALWAYS\_DETAILED\_SEC and REPEAT\_BRIEF tags are both set to YES then  
# Doxygen will generate a detailed section even if there is only a brief  
# description.

ALWAYS\_DETAILED\_SEC = NO

# If the INLINE\_INHERITED\_MEMB tag is set to YES, doxygen will show all  
# inherited members of a class in the documentation of that class as if those  
# members were ordinary class members. Constructors, destructors and assignment  
# operators of the base classes will not be shown.

INLINE\_INHERITED\_MEMB = NO

# If the FULL\_PATH\_NAMES tag is set to YES then Doxygen will prepend the full  
# path before files name in the file list and in the header files. If set  
# to NO the shortest path that makes the file name unique will be used.

FULL\_PATH\_NAMES = YES

# If the FULL\_PATH\_NAMES tag is set to YES then the STRIP\_FROM\_PATH tag  
# can be used to strip a user-defined part of the path. Stripping is  
# only done if one of the specified strings matches the left-hand part of  
# the path. The tag can be used to show relative paths in the file list.  
# If left blank the directory from which doxygen is run is used as the  
# path to strip.

STRIP\_FROM\_PATH =

# The STRIP\_FROM\_INC\_PATH tag can be used to strip a user-defined part of  
# the path mentioned in the documentation of a class, which tells  
# the reader which header file to include in order to use a class.  
# If left blank only the name of the header file containing the class  
# definition is used. Otherwise one should specify the include paths that  
# are normally passed to the compiler using the -I flag.

STRIP\_FROM\_INC\_PATH =

# If the SHORT\_NAMES tag is set to YES, doxygen will generate much shorter  
# (but less readable) file names. This can be useful if your file systems  
# doesn't support long names like on DOS, Mac, or CD-ROM.

SHORT\_NAMES = NO

# If the JAVADOC\_AUTOBRIEF tag is set to YES then Doxygen  
# will interpret the first line (until the first dot) of a JavaDoc-style  
# comment as the brief description. If set to NO, the JavaDoc  
# comments will behave just like regular Qt-style comments  
# (thus requiring an explicit @brief command for a brief description.)

JAVADOC\_AUTOBRIEF = NO

# If the QT\_AUTOBRIEF tag is set to YES then Doxygen will  
# interpret the first line (until the first dot) of a Qt-style  
# comment as the brief description. If set to NO, the comments  
# will behave just like regular Qt-style comments (thus requiring  
# an explicit \brief command for a brief description.)

QT\_AUTOBRIEF = NO

# The MULTILINE\_CPP\_IS\_BRIEF tag can be set to YES to make Doxygen  
# treat a multi-line C++ special comment block (i.e. a block of `///  
//`  
# comments) as a brief description. This used to be the default behaviour.  
# The new default is to treat a multi-line C++ comment block as a detailed  
# description. Set this tag to YES if you prefer the old behaviour instead.

MULTILINE\_CPP\_IS\_BRIEF = NO

# If the INHERIT\_DOCS tag is set to YES (the default) then an undocumented  
# member inherits the documentation from any documented member that it  
# re-implements.

INHERIT\_DOCS = YES

# If the SEPARATE\_MEMBER\_PAGES tag is set to YES, then doxygen will produce  
# a new page for each member. If set to NO, the documentation of a member will  
# be part of the file/class/namespace that contains it.

SEPARATE\_MEMBER\_PAGES = NO

# The TAB\_SIZE tag can be used to set the number of spaces in a tab.  
# Doxygen uses this value to replace tabs by spaces in code fragments.

TAB\_SIZE = 8

# This tag can be used to specify a number of aliases that acts  
# as commands in the documentation. An alias has the form "name=value".  
# For example adding "sideeffect=\par Side Effects:\n" will allow you to  
# put the command \sideeffect (or @sideeffect) in the documentation, which  
# will result in a user-defined paragraph with heading "Side Effects:".   
# You can put \n's in the value part of an alias to insert newlines.

ALIASES =

# Set the OPTIMIZE\_OUTPUT\_FOR\_C tag to YES if your project consists of C  
# sources only. Doxygen will then generate output that is more tailored for C.  
# For instance, some of the names that are used will be different. The list  
# of all members will be omitted, etc.

OPTIMIZE\_OUTPUT\_FOR\_C = NO

# Set the OPTIMIZE\_OUTPUT\_JAVA tag to YES if your project consists of Java  
# sources only. Doxygen will then generate output that is more tailored for  
# Java. For instance, namespaces will be presented as packages, qualified  
# scopes will look different, etc.

OPTIMIZE\_OUTPUT\_JAVA = NO

# Set the OPTIMIZE\_FOR\_FORTRAN tag to YES if your project consists of Fortran  
# sources only. Doxygen will then generate output that is more tailored for  
# Fortran.

OPTIMIZE\_FOR\_FORTRAN = NO

# Set the OPTIMIZE\_OUTPUT\_VHDL tag to YES if your project consists of VHDL  
# sources. Doxygen will then generate output that is tailored for  
# VHDL.

OPTIMIZE\_OUTPUT\_VHDL = NO

# If you use STL classes (i.e. std::string, std::vector, etc.) but do not want  
# to include (a tag file for) the STL sources as input, then you should  
# set this tag to YES in order to let doxygen match functions declarations and  
# definitions whose arguments contain STL classes (e.g. func(std::string); v.s.  
# func(std::string) {}). This also make the inheritance and collaboration  
# diagrams that involve STL classes more complete and accurate.

BUILTIN\_STL\_SUPPORT = NO

# If you use Microsoft's C++/CLI language, you should set this option to YES to  
# enable parsing support.

CPP\_CLI\_SUPPORT = NO

# Set the SIP\_SUPPORT tag to YES if your project consists of sip sources only.  
# Doxygen will parse them like normal C++ but will assume all classes use public  
# instead of private inheritance when no explicit protection keyword is present.

SIP\_SUPPORT = NO

# For Microsoft's IDL there are propget and propput attributes to indicate getter  
# and setter methods for a property. Setting this option to YES (the default)  
# will make doxygen to replace the get and set methods by a property in the  
# documentation. This will only work if the methods are indeed getting or  
# setting a simple type. If this is not the case, or you want to show the  
# methods anyway, you should set this option to NO.

IDL\_PROPERTY\_SUPPORT = YES

# If member grouping is used in the documentation and the DISTRIBUTE\_GROUP\_DOC  
# tag is set to YES, then doxygen will reuse the documentation of the first  
# member in the group (if any) for the other members of the group. By default  
# all members of a group must be documented explicitly.

DISTRIBUTE\_GROUP\_DOC = NO

# Set the SUBGROUPING tag to YES (the default) to allow class member groups of  
# the same type (for instance a group of public functions) to be put as a  
# subgroup of that type (e.g. under the Public Functions section). Set it to  
# NO to prevent subgrouping. Alternatively, this can be done per class using  
# the \nosubgrouping command.

SUBGROUPING = YES

# When TYPEDEF\_HIDES\_STRUCT is enabled, a typedef of a struct, union, or enum  
# is documented as struct, union, or enum with the name of the typedef. So  
# typedef struct TypeS { } TypeT, will appear in the documentation as a struct  
# with name TypeT. When disabled the typedef will appear as a member of a file,  
# namespace, or class. And the struct will be named TypeS. This can typically  
# be useful for C code in case the coding convention dictates that all compound  
# types are typedefed and only the typedef is referenced, never the tag name.

TYPEDEF\_HIDES\_STRUCT = NO

# The SYMBOL\_CACHE\_SIZE determines the size of the internal cache use to  
# determine which symbols to keep in memory and which to flush to disk.  
# When the cache is full, less often used symbols will be written to disk.  
# For small to medium size projects (<1000 input files) the default value is  
# probably good enough. For larger projects a too small cache size can cause

# doxygen to be busy swapping symbols to and from disk most of the time  
# causing a significant performance penalty.  
# If the system has enough physical memory increasing the cache will improve the  
# performance by keeping more symbols in memory. Note that the value works on  
# a logarithmic scale so increasing the size by one will roughly double the  
# memory usage. The cache size is given by this formula:  
#  $2^{(16+\text{SYMBOL\_CACHE\_SIZE})}$ . The valid range is 0..9, the default is 0,  
# corresponding to a cache size of  $2^{16} = 65536$  symbols

SYMBOL\_CACHE\_SIZE = 0

#-----  
# Build related configuration options  
#-----

# If the EXTRACT\_ALL tag is set to YES doxygen will assume all entities in  
# documentation are documented, even if no documentation was available.  
# Private class members and static file members will be hidden unless  
# the EXTRACT\_PRIVATE and EXTRACT\_STATIC tags are set to YES

EXTRACT\_ALL = YES

# If the EXTRACT\_PRIVATE tag is set to YES all private members of a class  
# will be included in the documentation.

EXTRACT\_PRIVATE = NO

# If the EXTRACT\_STATIC tag is set to YES all static members of a file  
# will be included in the documentation.

EXTRACT\_STATIC = NO

# If the EXTRACT\_LOCAL\_CLASSES tag is set to YES classes (and structs)  
# defined locally in source files will be included in the documentation.  
# If set to NO only classes defined in header files are included.

EXTRACT\_LOCAL\_CLASSES = YES

# This flag is only useful for Objective-C code. When set to YES local  
# methods, which are defined in the implementation section but not in  
# the interface are included in the documentation.  
# If set to NO (the default) only methods in the interface are included.

EXTRACT\_LOCAL\_METHODS = NO

# If this flag is set to YES, the members of anonymous namespaces will be  
# extracted and appear in the documentation as a namespace called  
# 'anonymous\_namespace{file}', where file will be replaced with the base

# name of the file that contains the anonymous namespace. By default  
# anonymous namespace are hidden.

EXTRACT\_ANON\_NSPPACES = NO

# If the HIDE\_UNDOC\_MEMBERS tag is set to YES, Doxygen will hide all  
# undocumented members of documented classes, files or namespaces.  
# If set to NO (the default) these members will be included in the  
# various overviews, but no documentation section is generated.  
# This option has no effect if EXTRACT\_ALL is enabled.

HIDE\_UNDOC\_MEMBERS = YES

# If the HIDE\_UNDOC\_CLASSES tag is set to YES, Doxygen will hide all  
# undocumented classes that are normally visible in the class hierarchy.  
# If set to NO (the default) these classes will be included in the various  
# overviews. This option has no effect if EXTRACT\_ALL is enabled.

HIDE\_UNDOC\_CLASSES = YES

# If the HIDE\_FRIEND\_COMPOUNDS tag is set to YES, Doxygen will hide all  
# friend (class|struct|union) declarations.  
# If set to NO (the default) these declarations will be included in the  
# documentation.

HIDE\_FRIEND\_COMPOUNDS = YES

# If the HIDE\_IN\_BODY\_DOCS tag is set to YES, Doxygen will hide any  
# documentation blocks found inside the body of a function.  
# If set to NO (the default) these blocks will be appended to the  
# function's detailed documentation block.

HIDE\_IN\_BODY\_DOCS = YES

# The INTERNAL\_DOCS tag determines if documentation  
# that is typed after a \internal command is included. If the tag is set  
# to NO (the default) then the documentation will be excluded.  
# Set it to YES to include the internal documentation.

INTERNAL\_DOCS = NO

# If the CASE\_SENSE\_NAMES tag is set to NO then Doxygen will only generate  
# file names in lower-case letters. If set to YES upper-case letters are also  
# allowed. This is useful if you have classes or files whose names only differ  
# in case and if your file system supports case sensitive file names. Windows  
# and Mac users are advised to set this option to NO.

CASE\_SENSE\_NAMES = YES

# If the HIDE\_SCOPE\_NAMES tag is set to NO (the default) then Doxygen  
# will show members with their full class and namespace scopes in the  
# documentation. If set to YES the scope will be hidden.

HIDE\_SCOPE\_NAMES = NO

# If the SHOW\_INCLUDE\_FILES tag is set to YES (the default) then Doxygen  
# will put a list of the files that are included by a file in the documentation  
# of that file.

SHOW\_INCLUDE\_FILES = NO

# If the INLINE\_INFO tag is set to YES (the default) then a tag [inline]  
# is inserted in the documentation for inline members.

INLINE\_INFO = YES

# If the SORT\_MEMBER\_DOCS tag is set to YES (the default) then doxygen  
# will sort the (detailed) documentation of file and class members  
# alphabetically by member name. If set to NO the members will appear in  
# declaration order.

SORT\_MEMBER\_DOCS = NO

# If the SORT\_BRIEF\_DOCS tag is set to YES then doxygen will sort the  
# brief documentation of file, namespace and class members alphabetically  
# by member name. If set to NO (the default) the members will appear in  
# declaration order.

SORT\_BRIEF\_DOCS = NO

# If the SORT\_GROUP\_NAMES tag is set to YES then doxygen will sort the  
# hierarchy of group names into alphabetical order. If set to NO (the default)  
# the group names will appear in their defined order.

SORT\_GROUP\_NAMES = NO

# If the SORT\_BY\_SCOPE\_NAME tag is set to YES, the class list will be  
# sorted by fully-qualified names, including namespaces. If set to  
# NO (the default), the class list will be sorted only by class name,  
# not including the namespace part.  
# Note: This option is not very useful if HIDE\_SCOPE\_NAMES is set to YES.  
# Note: This option applies only to the class list, not to the  
# alphabetical list.

SORT\_BY\_SCOPE\_NAME = NO



# The GENERATE\_TODOLIST tag can be used to enable (YES) or  
# disable (NO) the todo list. This list is created by putting \todo  
# commands in the documentation.

GENERATE\_TODOLIST = YES

# The GENERATE\_TESTLIST tag can be used to enable (YES) or  
# disable (NO) the test list. This list is created by putting \test  
# commands in the documentation.

GENERATE\_TESTLIST = YES

# The GENERATE\_BUGLIST tag can be used to enable (YES) or  
# disable (NO) the bug list. This list is created by putting \bug  
# commands in the documentation.

GENERATE\_BUGLIST = YES

# The GENERATE\_DEPRECATEDLIST tag can be used to enable (YES) or  
# disable (NO) the deprecated list. This list is created by putting  
# \deprecated commands in the documentation.

GENERATE\_DEPRECATEDLIST= YES

# The ENABLED\_SECTIONS tag can be used to enable conditional  
# documentation sections, marked by \if sectionname ... \endif.

ENABLED\_SECTIONS =

# The MAX\_INITIALIZER\_LINES tag determines the maximum number of lines  
# the initial value of a variable or define consists of for it to appear in  
# the documentation. If the initializer consists of more lines than specified  
# here it will be hidden. Use a value of 0 to hide initializers completely.  
# The appearance of the initializer of individual variables and defines in the  
# documentation can be controlled using \showinitializer or \hideinitializer  
# command in the documentation regardless of this setting.

MAX\_INITIALIZER\_LINES = 30

# Set the SHOW\_USED\_FILES tag to NO to disable the list of files generated  
# at the bottom of the documentation of classes and structs. If set to YES the  
# list will mention the files that were used to generate the documentation.

SHOW\_USED\_FILES = NO

# If the sources in your project are distributed over multiple directories  
# then setting the SHOW\_DIRECTORIES tag to YES will show the directory hierarchy  
# in the documentation. The default is NO.

#SHOW\_DIRECTORIES = NO

# Set the SHOW\_FILES tag to NO to disable the generation of the Files page.  
# This will remove the Files entry from the Quick Index and from the  
# Folder Tree View (if specified). The default is YES.

SHOW\_FILES = YES

# Set the SHOW\_NAMESPACES tag to NO to disable the generation of the  
# Namespaces page. This will remove the Namespaces entry from the Quick Index  
# and from the Folder Tree View (if specified). The default is YES.

SHOW\_NAMESPACES = YES

# The FILE\_VERSION\_FILTER tag can be used to specify a program or script that  
# doxygen should invoke to get the current version for each file (typically from  
# the version control system). Doxygen will invoke the program by executing (via  
# popen()) the command <command> <input-file>, where <command> is the value of  
# the FILE\_VERSION\_FILTER tag, and <input-file> is the name of an input file  
# provided by doxygen. Whatever the program writes to standard output  
# is used as the file version. See the manual for examples.

FILE\_VERSION\_FILTER =

# The LAYOUT\_FILE tag can be used to specify a layout file which will be parsed  
# by doxygen. The layout file controls the global structure of the generated  
# output files in an output format independent way. The create the layout file  
# that represents doxygen's defaults, run doxygen with the -l option. You can  
# optionally specify a file name after the option, if omitted DoxygenLayout.xml  
# will be used as the name of the layout file.

LAYOUT\_FILE =

#-----  
# configuration options related to warning and progress messages  
#-----

# The QUIET tag can be used to turn on/off the messages that are generated  
# by doxygen. Possible values are YES and NO. If left blank NO is used.

QUIET = YES

# The WARNINGS tag can be used to turn on/off the warning messages that are  
# generated by doxygen. Possible values are YES and NO. If left blank  
# NO is used.

WARNINGS = YES

# If WARN\_IF\_UNDOCUMENTED is set to YES, then doxygen will generate warnings  
# for undocumented members. If EXTRACT\_ALL is set to YES then this flag will  
# automatically be disabled.

WARN\_IF\_UNDOCUMENTED = YES

# If WARN\_IF\_DOC\_ERROR is set to YES, doxygen will generate warnings for  
# potential errors in the documentation, such as not documenting some  
# parameters in a documented function, or documenting parameters that  
# don't exist or using markup commands wrongly.

WARN\_IF\_DOC\_ERROR = YES

# This WARN\_NO\_PARAMDOC option can be able to get warnings for  
# functions that are documented, but have no documentation for their parameters  
# or return value. If set to NO (the default) doxygen will only warn about  
# wrong or incomplete parameter documentation, but not about the absence of  
# documentation.

WARN\_NO\_PARAMDOC = NO

# The WARN\_FORMAT tag determines the format of the warning messages that  
# doxygen can produce. The string should contain the \$file, \$line, and \$text  
# tags, which will be replaced by the file and line number from which the  
# warning originated and the warning text. Optionally the format may contain  
# \$version, which will be replaced by the version of the file (if it could  
# be obtained via FILE\_VERSION\_FILTER)

WARN\_FORMAT = "\$file:\$line: \$text"

# The WARN\_LOGFILE tag can be used to specify a file to which warning  
# and error messages should be written. If left blank the output is written  
# to stderr.

WARN\_LOGFILE =

#-----  
# configuration options related to the input files  
#-----

# The INPUT tag can be used to specify the files and/or directories that contain  
# documented source files. You may enter file names like "myfile.cpp" or  
# directories like "/usr/src/myproject". Separate the files or directories  
# with spaces.

INPUT = dox/

# This tag can be used to specify the character encoding of the source files  
# that doxygen parses. Internally doxygen uses the UTF-8 encoding, which is  
# also the default input encoding. Doxygen uses libiconv (or the iconv built  
# into libc) for the transcoding. See <http://www.gnu.org/software/libiconv> for  
# the list of possible encodings.

INPUT\_ENCODING = UTF-8

# If the value of the INPUT tag contains directories, you can use the  
# FILE\_PATTERNS tag to specify one or more wildcard pattern (like \*.cpp  
# and \*.h) to filter out the source-files in the directories. If left  
# blank the following patterns are tested:  
# \*.c \*.cc \*.cxx \*.cpp \*.c++ \*.java \*.ii \*.ixx \*.ipp \*.i++ \*.inl \*.h \*.hh \*.hxx  
# \*.hpp \*.h++ \*.idl \*.odl \*.cs \*.php \*.php3 \*.inc \*.m \*.mm \*.py \*.f90

FILE\_PATTERNS = \*.c \*.h

# The RECURSIVE tag can be used to turn specify whether or not subdirectories  
# should be searched for input files as well. Possible values are YES and NO.  
# If left blank NO is used.

RECURSIVE = NO

# The EXCLUDE tag can be used to specify files and/or directories that should  
# be excluded from the INPUT source files. This way you can easily exclude a  
# subdirectory from a directory tree whose root is specified with the INPUT tag.

EXCLUDE =

# The EXCLUDE\_SYMLINKS tag can be used select whether or not files or  
# directories that are symbolic links (a Unix filesystem feature) are excluded  
# from the input.

EXCLUDE\_SYMLINKS = NO

# If the value of the INPUT tag contains directories, you can use the  
# EXCLUDE\_PATTERNS tag to specify one or more wildcard patterns to exclude  
# certain files from those directories. Note that the wildcards are matched  
# against the file with absolute path, so to exclude all test directories  
# for example use the pattern \*/test/\*

EXCLUDE\_PATTERNS =

# The EXCLUDE\_SYMBOLS tag can be used to specify one or more symbol names  
# (namespaces, classes, functions, etc.) that should be excluded from the  
# output. The symbol name can be a fully qualified name, a word, or if the  
# wildcard \* is used, a substring. Examples: ANamespace, AClass,  
# AClass::ANamespace, ANamespace::\*Test

EXCLUDE\_SYMBOLS = clone

# The EXAMPLE\_PATH tag can be used to specify one or more files or  
# directories that contain example code fragments that are included (see  
# the \include command).

EXAMPLE\_PATH =

# If the value of the EXAMPLE\_PATH tag contains directories, you can use the  
# EXAMPLE\_PATTERNS tag to specify one or more wildcard pattern (like \*.cpp  
# and \*.h) to filter out the source-files in the directories. If left  
# blank all files are included.

EXAMPLE\_PATTERNS =

# If the EXAMPLE\_RECURSIVE tag is set to YES then subdirectories will be  
# searched for input files to be used with the \include or \dontinclude  
# commands irrespective of the value of the RECURSIVE tag.  
# Possible values are YES and NO. If left blank NO is used.

EXAMPLE\_RECURSIVE = NO

# The IMAGE\_PATH tag can be used to specify one or more files or  
# directories that contain image that are included in the documentation (see  
# the \image command).

IMAGE\_PATH = .

# The INPUT\_FILTER tag can be used to specify a program that doxygen should  
# invoke to filter for each input file. Doxygen will invoke the filter program  
# by executing (via popen()) the command <filter> <input-file>, where <filter>  
# is the value of the INPUT\_FILTER tag, and <input-file> is the name of an  
# input file. Doxygen will then use the output that the filter program writes  
# to standard output. If FILTER\_PATTERNS is specified, this tag will be  
# ignored.

INPUT\_FILTER =

# The FILTER\_PATTERNS tag can be used to specify filters on a per file pattern  
# basis. Doxygen will compare the file name with each pattern and apply the  
# filter if there is a match. The filters are a list of the form:  
# pattern=filter (like \*.cpp=my\_cpp\_filter). See INPUT\_FILTER for further  
# info on how filters are used. If FILTER\_PATTERNS is empty, INPUT\_FILTER  
# is applied to all files.

FILTER\_PATTERNS =

# If the FILTER\_SOURCE\_FILES tag is set to YES, the input filter (if set using  
# INPUT\_FILTER) will be used to filter the input files when producing source  
# files to browse (i.e. when SOURCE\_BROWSER is set to YES).

FILTER\_SOURCE\_FILES = NO

#-----  
# configuration options related to source browsing  
#-----

# If the SOURCE\_BROWSER tag is set to YES then a list of source files will  
# be generated. Documented entities will be cross-referenced with these sources.  
# Note: To get rid of all source code in the generated output, make sure also  
# VERBATIM\_HEADERS is set to NO.

SOURCE\_BROWSER = NO

# Setting the INLINE\_SOURCES tag to YES will include the body  
# of functions and classes directly in the documentation.

INLINE\_SOURCES = NO

# Setting the STRIP\_CODE\_COMMENTS tag to YES (the default) will instruct  
# doxygen to hide any special comment blocks from generated source code  
# fragments. Normal C and C++ comments will always remain visible.

STRIP\_CODE\_COMMENTS = YES

# If the REFERENCED\_BY\_RELATION tag is set to YES  
# then for each documented function all documented  
# functions referencing it will be listed.

REFERENCED\_BY\_RELATION = NO

# If the REFERENCES\_RELATION tag is set to YES  
# then for each documented function all documented entities  
# called/used by that function will be listed.

REFERENCES\_RELATION = NO

# If the REFERENCES\_LINK\_SOURCE tag is set to YES (the default)  
# and SOURCE\_BROWSER tag is set to YES, then the hyperlinks from  
# functions in REFERENCES\_RELATION and REFERENCED\_BY\_RELATION lists will  
# link to the source code. Otherwise they will link to the documentstion.

REFERENCES\_LINK\_SOURCE = YES

# If the USE\_HTAGS tag is set to YES then the references to source code

# will point to the HTML generated by the htags(1) tool instead of doxygen  
# built-in source browser. The htags tool is part of GNU's global source  
# tagging system (see <http://www.gnu.org/software/global/global.html>). You  
# will need version 4.8.6 or higher.

USE\_HTAGS = NO

# If the VERBATIM\_HEADERS tag is set to YES (the default) then Doxygen  
# will generate a verbatim copy of the header file for each class for  
# which an include is specified. Set to NO to disable this.

VERBATIM\_HEADERS = NO

#-----  
# configuration options related to the alphabetical class index  
#-----

# If the alphabetical index is enabled (see ALPHABETICAL\_INDEX) then  
# the COLS\_IN\_ALPHA\_INDEX tag can be used to specify the number of columns  
# in which this list will be split (can be a number in the range [1..20])

COLS\_IN\_ALPHA\_INDEX = 5

# In case all classes in a project start with a common prefix, all  
# classes will be put under the same header in the alphabetical index.  
# The IGNORE\_PREFIX tag can be used to specify one or more prefixes that  
# should be ignored while generating the index headers.

IGNORE\_PREFIX =

#-----  
# configuration options related to the HTML output  
#-----

# If the GENERATE\_HTML tag is set to YES (the default) Doxygen will  
# generate HTML output.

GENERATE\_HTML = YES

# The HTML\_OUTPUT tag is used to specify where the HTML docs will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank 'html' will be used as the default path.

HTML\_OUTPUT = html

# The HTML\_FILE\_EXTENSION tag can be used to specify the file extension for  
# each generated HTML page (for example: .htm,.php,.asp). If it is left blank  
# doxygen will generate files with .html extension.

HTML\_FILE\_EXTENSION = .html

# The HTML\_HEADER tag can be used to specify a personal HTML header for  
# each generated HTML page. If it is left blank doxygen will generate a  
# standard header.

HTML\_HEADER =

# The HTML\_FOOTER tag can be used to specify a personal HTML footer for  
# each generated HTML page. If it is left blank doxygen will generate a  
# standard footer.

HTML\_FOOTER =

# The HTML\_STYLESHEET tag can be used to specify a user-defined cascading  
# style sheet that is used by each HTML page. It can be used to  
# fine-tune the look of the HTML output. If the tag is left blank doxygen  
# will generate a default style sheet. Note that doxygen will try to copy  
# the style sheet file to the HTML output directory, so don't put your own  
# stylesheet in the HTML output directory as well, or it will be erased!

HTML\_STYLESHEET =

# If the HTML\_ALIGN\_MEMBERS tag is set to YES, the members of classes,  
# files or namespaces will be aligned in HTML using tables. If set to  
# NO a bullet list will be used.

#HTML\_ALIGN\_MEMBERS = YES

# If the HTML\_DYNAMIC\_SECTIONS tag is set to YES then the generated HTML  
# documentation will contain sections that can be hidden and shown after the  
# page has loaded. For this to work a browser that supports  
# JavaScript and DHTML is required (for instance Mozilla 1.0+, Firefox  
# Netscape 6.0+, Internet explorer 5.0+, Konqueror, or Safari).

HTML\_DYNAMIC\_SECTIONS = NO

# If the GENERATE\_DOCSET tag is set to YES, additional index files  
# will be generated that can be used as input for Apple's Xcode 3  
# integrated development environment, introduced with OSX 10.5 (Leopard).  
# To create a documentation set, doxygen will generate a Makefile in the  
# HTML output directory. Running make will produce the docset in that  
# directory and running "make install" will install the docset in  
# ~/Library/Developer/Shared/Documentation/DocSets so that Xcode will find  
# it at startup.  
# See <http://developer.apple.com/tools/creatingdocsetswithdoxygen.html> for more information.



GENERATE\_DOCSET = NO

# When GENERATE\_DOCSET tag is set to YES, this tag determines the name of the  
# feed. A documentation feed provides an umbrella under which multiple  
# documentation sets from a single provider (such as a company or product suite)  
# can be grouped.

DOCSET\_FEEDNAME = "Doxygen generated docs"

# When GENERATE\_DOCSET tag is set to YES, this tag specifies a string that  
# should uniquely identify the documentation set bundle. This should be a  
# reverse domain-name style string, e.g. com.mycompany.MyDocSet. Doxygen  
# will append .docset to the name.

DOCSET\_BUNDLE\_ID = org.doxygen.Project

# If the GENERATE\_HTMLHELP tag is set to YES, additional index files  
# will be generated that can be used as input for tools like the  
# Microsoft HTML help workshop to generate a compiled HTML help file (.chm)  
# of the generated HTML documentation.

GENERATE\_HTMLHELP = yes

# If the GENERATE\_HTMLHELP tag is set to YES, the CHM\_FILE tag can  
# be used to specify the file name of the resulting .chm file. You  
# can add a path in front of the file if the result should not be  
# written to the html output directory.

CHM\_FILE = "PHYMOD.chm"

# If the GENERATE\_HTMLHELP tag is set to YES, the HHC\_LOCATION tag can  
# be used to specify the location (absolute path including file name) of  
# the HTML help compiler (hhc.exe). If non-empty doxygen will try to run  
# the HTML help compiler on the generated index.hhp.

HHC\_LOCATION =

# If the GENERATE\_HTMLHELP tag is set to YES, the GENERATE\_CHI flag  
# controls if a separate .chi index file is generated (YES) or that  
# it should be included in the master .chm file (NO).

GENERATE\_CHI = NO

# If the GENERATE\_HTMLHELP tag is set to YES, the CHM\_INDEX\_ENCODING  
# is used to encode HtmlHelp index (hhk), content (hhc) and project file  
# content.

CHM\_INDEX\_ENCODING =

# If the GENERATE\_HTMLHELP tag is set to YES, the BINARY\_TOC flag  
# controls whether a binary table of contents is generated (YES) or a  
# normal table of contents (NO) in the .chm file.

BINARY\_TOC = NO

# The TOC\_EXPAND flag can be set to YES to add extra items for group members  
# to the contents of the HTML help documentation and to the tree view.

TOC\_EXPAND = NO

# If the GENERATE\_QHP tag is set to YES and both QHP\_NAMESPACE and QHP\_VIRTUAL\_FOLDER  
# are set, an additional index file will be generated that can be used as input for  
# Qt's qhelpgenerator to generate a Qt Compressed Help (.qch) of the generated  
# HTML documentation.

GENERATE\_QHP = NO

# If the QHG\_LOCATION tag is specified, the QCH\_FILE tag can  
# be used to specify the file name of the resulting .qch file.  
# The path specified is relative to the HTML output folder.

QCH\_FILE =

# The QHP\_NAMESPACE tag specifies the namespace to use when generating  
# Qt Help Project output. For more information please see  
# <a href="http://doc.trolltech.com/qthelpproject.html#namespace">Qt Help Project / Namespace</a>.

QHP\_NAMESPACE = org.doxygen.Project

# The QHP\_VIRTUAL\_FOLDER tag specifies the namespace to use when generating  
# Qt Help Project output. For more information please see  
# <a href="http://doc.trolltech.com/qthelpproject.html#virtual-folders">Qt Help Project / Virtual Folders</a>.

QHP\_VIRTUAL\_FOLDER = doc

# If the GENERATE\_QHP tag is set to YES, the QHG\_LOCATION tag can  
# be used to specify the location of Qt's qhelpgenerator.  
# If non-empty doxygen will try to run qhelpgenerator on the generated  
# .qhp file .

QHG\_LOCATION =

# The DISABLE\_INDEX tag can be used to turn on/off the condensed index at  
# top of each HTML page. The value NO (the default) enables the index and  
# the value YES disables it.

DISABLE\_INDEX = NO

# This tag can be used to set the number of enum values (range [1..20])  
# that doxygen will group on one line in the generated HTML documentation.

ENUM\_VALUES\_PER\_LINE = 4

# The GENERATE\_TREEVIEW tag is used to specify whether a tree-like index  
# structure should be generated to display hierarchical information.  
# If the tag value is set to FRAME, a side panel will be generated  
# containing a tree-like index structure (just like the one that  
# is generated for HTML Help). For this to work a browser that supports  
# JavaScript, DHTML, CSS and frames is required (for instance Mozilla 1.0+,  
# Netscape 6.0+, Internet explorer 5.0+, or Konqueror). Windows users are  
# probably better off using the HTML help feature. Other possible values  
# for this tag are: HIERARCHIES, which will generate the Groups, Directories,  
# and Class Hierarchy pages using a tree view instead of an ordered list;  
# ALL, which combines the behavior of FRAME and HIERARCHIES; and NONE, which  
# disables this behavior completely. For backwards compatibility with previous  
# releases of Doxygen, the values YES and NO are equivalent to FRAME and NONE  
# respectively.

GENERATE\_TREEVIEW = NONE

# If the treeview is enabled (see GENERATE\_TREEVIEW) then this tag can be  
# used to set the initial width (in pixels) of the frame in which the tree  
# is shown.

TREEVIEW\_WIDTH = 250

# Use this tag to change the font size of Latex formulas included  
# as images in the HTML documentation. The default is 10. Note that  
# when you change the font size after a successful doxygen run you need  
# to manually remove any form\_\*.png images from the HTML output directory  
# to force them to be regenerated.

FORMULA\_FONTSIZE = 10

#-----  
# configuration options related to the LaTeX output  
#-----

# If the GENERATE\_LATEX tag is set to YES (the default) Doxygen will  
# generate Latex output.

GENERATE\_LATEX = NO

# The LATEX\_OUTPUT tag is used to specify where the LaTeX docs will be put.

# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank `latex' will be used as the default path.

LATEX\_OUTPUT = latex

# The LATEX\_CMD\_NAME tag can be used to specify the LaTeX command name to be  
# invoked. If left blank `latex' will be used as the default command name.

LATEX\_CMD\_NAME = latex

# The MAKEINDEX\_CMD\_NAME tag can be used to specify the command name to  
# generate index for LaTeX. If left blank `makeindex' will be used as the  
# default command name.

MAKEINDEX\_CMD\_NAME = makeindex

# If the COMPACT\_LATEX tag is set to YES Doxygen generates more compact  
# LaTeX documents. This may be useful for small projects and may help to  
# save some trees in general.

COMPACT\_LATEX = NO

# The PAPER\_TYPE tag can be used to set the paper type that is used  
# by the printer. Possible values are: a4, a4wide, letter, legal and  
# executive. If left blank a4wide will be used.

PAPER\_TYPE = a4wide

# The EXTRA\_PACKAGES tag can be to specify one or more names of LaTeX  
# packages that should be included in the LaTeX output.

EXTRA\_PACKAGES =

# The LATEX\_HEADER tag can be used to specify a personal LaTeX header for  
# the generated latex document. The header should contain everything until  
# the first chapter. If it is left blank doxygen will generate a  
# standard header. Notice: only use this tag if you know what you are doing!

LATEX\_HEADER =

# If the PDF\_HYPERLINKS tag is set to YES, the LaTeX that is generated  
# is prepared for conversion to pdf (using ps2pdf). The pdf file will  
# contain links (just like the HTML output) instead of page references  
# This makes the output suitable for online browsing using a pdf viewer.

PDF\_HYPERLINKS = YES

# If the USE\_PDFLATEX tag is set to YES, pdflatex will be used instead of

# plain latex in the generated Makefile. Set this option to YES to get a  
# higher quality PDF documentation.

USE\_PDFLATEX = YES

# If the LATEX\_BATCHMODE tag is set to YES, doxygen will add the `\batchmode`.  
# command to the generated LaTeX files. This will instruct LaTeX to keep  
# running if errors occur, instead of asking the user for help.  
# This option is also used when generating formulas in HTML.

LATEX\_BATCHMODE = NO

# If LATEX\_HIDE\_INDICES is set to YES then doxygen will not  
# include the index chapters (such as File Index, Compound Index, etc.)  
# in the output.

LATEX\_HIDE\_INDICES = NO

#-----  
# configuration options related to the RTF output  
#-----

# If the GENERATE\_RTF tag is set to YES Doxygen will generate RTF output  
# The RTF output is optimized for Word 97 and may not look very pretty with  
# other RTF readers or editors.

GENERATE\_RTF = NO

# The RTF\_OUTPUT tag is used to specify where the RTF docs will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank ``rtf'` will be used as the default path.

RTF\_OUTPUT = rtf

# If the COMPACT\_RTF tag is set to YES Doxygen generates more compact  
# RTF documents. This may be useful for small projects and may help to  
# save some trees in general.

COMPACT\_RTF = NO

# If the RTF\_HYPERLINKS tag is set to YES, the RTF that is generated  
# will contain hyperlink fields. The RTF file will  
# contain links (just like the HTML output) instead of page references.  
# This makes the output suitable for online browsing using WORD or other  
# programs which support those fields.  
# Note: wordpad (write) and others do not support links.

RTF\_HYPERLINKS = NO

# Load stylesheet definitions from file. Syntax is similar to doxygen's  
# config file, i.e. a series of assignments. You only have to provide  
# replacements, missing definitions are set to their default value.

RTF\_STYLESHEET\_FILE =

# Set optional variables used in the generation of an rtf document.  
# Syntax is similar to doxygen's config file.

RTF\_EXTENSIONS\_FILE =

#-----  
# configuration options related to the man page output  
#-----

# If the GENERATE\_MAN tag is set to YES (the default) Doxygen will  
# generate man pages

GENERATE\_MAN = NO

# The MAN\_OUTPUT tag is used to specify where the man pages will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank 'man' will be used as the default path.

MAN\_OUTPUT = man

# The MAN\_EXTENSION tag determines the extension that is added to  
# the generated man pages (default is the subroutine's section .3)

MAN\_EXTENSION = .3

# If the MAN\_LINKS tag is set to YES and Doxygen generates man output,  
# then it will generate one additional man file for each entity  
# documented in the real man page(s). These additional files  
# only source the real man page, but without them the man command  
# would be unable to find the correct page. The default is NO.

MAN\_LINKS = NO

#-----  
# configuration options related to the XML output  
#-----

# If the GENERATE\_XML tag is set to YES Doxygen will  
# generate an XML file that captures the structure of  
# the code including all documentation.

GENERATE\_XML = NO

# The XML\_OUTPUT tag is used to specify where the XML pages will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank 'xml' will be used as the default path.

XML\_OUTPUT = xml

# The XML\_SCHEMA tag can be used to specify an XML schema,  
# which can be used by a validating XML parser to check the  
# syntax of the XML files.

XML\_SCHEMA =

# The XML\_DTD tag can be used to specify an XML DTD,  
# which can be used by a validating XML parser to check the  
# syntax of the XML files.

XML\_DTD =

# If the XML\_PROGRAMLISTING tag is set to YES Doxygen will  
# dump the program listings (including syntax highlighting  
# and cross-referencing information) to the XML output. Note that  
# enabling this will significantly increase the size of the XML output.

XML\_PROGRAMLISTING = YES

#-----  
# configuration options for the AutoGen Definitions output  
#-----

# If the GENERATE\_AUTOGEN\_DEF tag is set to YES Doxygen will  
# generate an AutoGen Definitions (see autogen.sf.net) file  
# that captures the structure of the code including all  
# documentation. Note that this feature is still experimental  
# and incomplete at the moment.

GENERATE\_AUTOGEN\_DEF = NO

#-----  
# configuration options related to the Perl module output  
#-----

# If the GENERATE\_PERLMOD tag is set to YES Doxygen will  
# generate a Perl module file that captures the structure of  
# the code including all documentation. Note that this  
# feature is still experimental and incomplete at the  
# moment.

GENERATE\_PERLMOD = NO

# If the PERLMOD\_LATEX tag is set to YES Doxygen will generate  
# the necessary Makefile rules, Perl scripts and LaTeX code to be able  
# to generate PDF and DVI output from the Perl module output.

PERLMOD\_LATEX = NO

# If the PERLMOD\_PRETTY tag is set to YES the Perl module output will be  
# nicely formatted so it can be parsed by a human reader. This is useful  
# if you want to understand what is going on. On the other hand, if this  
# tag is set to NO the size of the Perl module output will be much smaller  
# and Perl will parse it just the same.

PERLMOD\_PRETTY = YES

# The names of the make variables in the generated doxyrules.make file  
# are prefixed with the string contained in PERLMOD\_MAKEVAR\_PREFIX.  
# This is useful so different doxyrules.make files included by the same  
# Makefile don't overwrite each other's variables.

PERLMOD\_MAKEVAR\_PREFIX =

#-----  
# Configuration options related to the preprocessor  
#-----

# If the ENABLE\_PREPROCESSING tag is set to YES (the default) Doxygen will  
# evaluate all C-preprocessor directives found in the sources and include  
# files.

ENABLE\_PREPROCESSING = YES

# If the MACRO\_EXPANSION tag is set to YES Doxygen will expand all macro  
# names in the source code. If set to NO (the default) only conditional  
# compilation will be performed. Macro expansion can be done in a controlled  
# way by setting EXPAND\_ONLY\_PREDEF to YES.

MACRO\_EXPANSION = YES

# If the EXPAND\_ONLY\_PREDEF and MACRO\_EXPANSION tags are both set to YES  
# then the macro expansion is limited to the macros specified with the  
# PREDEFINED and EXPAND\_AS\_DEFINED tags.

EXPAND\_ONLY\_PREDEF = YES

# If the SEARCH\_INCLUDES tag is set to YES (the default) the includes files



# in the INCLUDE\_PATH (see below) will be search if a #include is found.

SEARCH\_INCLUDES = YES

# The INCLUDE\_PATH tag can be used to specify one or more directories that  
# contain include files that are not input files but should be processed by  
# the preprocessor.

INCLUDE\_PATH =

# You can use the INCLUDE\_FILE\_PATTERNS tag to specify one or more wildcard  
# patterns (like \*.h and \*.hpp) to filter out the header-files in the  
# directories. If left blank, the patterns specified with FILE\_PATTERNS will  
# be used.

INCLUDE\_FILE\_PATTERNS =

# The PREDEFINED tag can be used to specify one or more macro names that  
# are defined before the preprocessor is started (similar to the -D option of  
# gcc). The argument of the tag is a list of macros of the form: name  
# or name=definition (no spaces). If the definition and the = are  
# omitted =1 is assumed. To prevent a macro definition from being  
# undefined via #undef or recursively expanded use the := operator  
# instead of the = operator.

PREDEFINED = BCM\_PLP\_BASE\_T\_PHY INCLUDE\_XGXS\_TEMOD PHYMOD\_DEBUG\_ERROR  
PHYMOD\_DEBUG\_VERBOSE PHYMOD\_USLEEP PHYMOD\_SLEEP PHYMOD\_MALLOC  
PHYMOD\_FREE PHYMOD\_MEMSET PHYMOD\_MEMCPY PHYMOD\_STRCMP

# If the MACRO\_EXPANSION and EXPAND\_ONLY\_PREDEF tags are set to YES then  
# this tag can be used to specify a list of macro names that should be expanded.  
# The macro definition that is found in the sources will be used.  
# Use the PREDEFINED tag if you want to use a different macro definition.

EXPAND\_AS\_DEFINED =

# If the SKIP\_FUNCTION\_MACROS tag is set to YES (the default) then  
# doxygen's preprocessor will remove all function-like macros that are alone  
# on a line, have an all uppercase name, and do not end with a semicolon. Such  
# function macros are typically used for boiler-plate code, and will confuse  
# the parser if not removed.

SKIP\_FUNCTION\_MACROS = YES

#-----  
# Configuration::additions related to external references  
#-----

# The TAGFILES option can be used to specify one or more tagfiles.  
 # Optionally an initial location of the external documentation  
 # can be added for each tagfile. The format of a tag file without  
 # this location is as follows:  
 # TAGFILES = file1 file2 ...  
 # Adding location for the tag files is done as follows:  
 # TAGFILES = file1=loc1 "file2 = loc2" ...  
 # where "loc1" and "loc2" can be relative or absolute paths or  
 # URLs. If a location is present for each tag, the installdox tool  
 # does not have to be run to correct the links.  
 # Note that each tag file must have a unique name  
 # (where the name does NOT include the path)  
 # If a tag file is not located in the directory in which doxygen  
 # is run, you must also specify the path to the tagfile here.

TAGFILES =

# When a file name is specified after GENERATE\_TAGFILE, doxygen will create  
 # a tag file that is based on the input files it reads.

GENERATE\_TAGFILE =

# If the ALLEXTERNALS tag is set to YES all external classes will be listed  
 # in the class index. If set to NO only the inherited external classes  
 # will be listed.

ALLEXTERNALS = NO

# If the EXTERNAL\_GROUPS tag is set to YES all external groups will be listed  
 # in the modules index. If set to NO, only the current project's groups will  
 # be listed.

EXTERNAL\_GROUPS = YES

# The PERL\_PATH should be the absolute path and name of the perl script  
 # interpreter (i.e. the result of `which perl').

PERL\_PATH = /usr/bin/perl

#-----  
 # Configuration options related to the dot tool  
 #-----

# If the CLASS\_DIAGRAMS tag is set to YES (the default) Doxygen will  
 # generate a inheritance diagram (in HTML, RTF and LaTeX) for classes with base  
 # or super classes. Setting the tag to NO turns the diagrams off. Note that  
 # this option is superseded by the HAVE\_DOT option below. This is only a  
 # fallback. It is recommended to install and use dot, since it yields more

# powerful graphs.

CLASS\_DIAGRAMS = YES

# You can define message sequence charts within doxygen comments using the \msc  
# command. Doxygen will then run the mscgen tool (see  
# <http://www.mcternan.me.uk/mscgen/>) to produce the chart and insert it in the  
# documentation. The MSCGEN\_PATH tag allows you to specify the directory where  
# the mscgen tool resides. If left empty the tool is assumed to be found in the  
# default search path.

MSCGEN\_PATH =

# If set to YES, the inheritance and collaboration graphs will hide  
# inheritance and usage relations if the target is undocumented  
# or is not a class.

HIDE\_UNDOC\_RELATIONS = YES

# If you set the HAVE\_DOT tag to YES then doxygen will assume the dot tool is  
# available from the path. This tool is part of Graphviz, a graph visualization  
# toolkit from AT&T and Lucent Bell Labs. The other options in this section  
# have no effect if this option is set to NO (the default)

HAVE\_DOT = YES

# By default doxygen will write a font called FreeSans.ttf to the output  
# directory and reference it in all dot files that doxygen generates. This  
# font does not include all possible unicode characters however, so when you need  
# these (or just want a differently looking font) you can specify the font name  
# using DOT\_FONTNAME. You need need to make sure dot is able to find the font,  
# which can be done by putting it in a standard location or by setting the  
# DOTFONTPATH environment variable or by setting DOT\_FONTPATH to the directory  
# containing the font.

DOT\_FONTNAME = FreeSans

# By default doxygen will tell dot to use the output directory to look for the  
# FreeSans.ttf font (which doxygen will put there itself). If you specify a  
# different font using DOT\_FONTNAME you can set the path where dot  
# can find it using this tag.

DOT\_FONTPATH =

# If the CLASS\_GRAPH and HAVE\_DOT tags are set to YES then doxygen  
# will generate a graph for each documented class showing the direct and  
# indirect inheritance relations. Setting this tag to YES will force the  
# the CLASS\_DIAGRAMS tag to NO.

CLASS\_GRAPH = YES

# If the COLLABORATION\_GRAPH and HAVE\_DOT tags are set to YES then doxygen  
# will generate a graph for each documented class showing the direct and  
# indirect implementation dependencies (inheritance, containment, and  
# class references variables) of the class with other documented classes.

COLLABORATION\_GRAPH = YES

# If the GROUP\_GRAPHS and HAVE\_DOT tags are set to YES then doxygen  
# will generate a graph for groups, showing the direct groups dependencies

GROUP\_GRAPHS = YES

# If the UML\_LOOK tag is set to YES doxygen will generate inheritance and  
# collaboration diagrams in a style similar to the OMG's Unified Modeling  
# Language.

UML\_LOOK = NO

# If set to YES, the inheritance and collaboration graphs will show the  
# relations between templates and their instances.

TEMPLATE\_RELATIONS = NO

# If the ENABLE\_PREPROCESSING, SEARCH\_INCLUDES, INCLUDE\_GRAPH, and HAVE\_DOT  
# tags are set to YES then doxygen will generate a graph for each documented  
# file showing the direct and indirect include dependencies of the file with  
# other documented files.

INCLUDE\_GRAPH = YES

# If the ENABLE\_PREPROCESSING, SEARCH\_INCLUDES, INCLUDED\_BY\_GRAPH, and  
# HAVE\_DOT tags are set to YES then doxygen will generate a graph for each  
# documented header file showing the documented files that directly or  
# indirectly include this file.

INCLUDED\_BY\_GRAPH = YES

# If the CALL\_GRAPH and HAVE\_DOT options are set to YES then  
# doxygen will generate a call dependency graph for every global function  
# or class method. Note that enabling this option will significantly increase  
# the time of a run. So in most cases it will be better to enable call graphs  
# for selected functions only using the \callgraph command.

CALL\_GRAPH = NO

# If the CALLER\_GRAPH and HAVE\_DOT tags are set to YES then  
# doxygen will generate a caller dependency graph for every global function  
# or class method. Note that enabling this option will significantly increase  
# the time of a run. So in most cases it will be better to enable caller  
# graphs for selected functions only using the \callergraph command.

CALLER\_GRAPH = NO

# If the GRAPHICAL\_HIERARCHY and HAVE\_DOT tags are set to YES then doxygen  
# will graphical hierarchy of all classes instead of a textual one.

GRAPHICAL\_HIERARCHY = YES

# If the DIRECTORY\_GRAPH, SHOW\_DIRECTORIES and HAVE\_DOT tags are set to YES  
# then doxygen will show the dependencies a directory has on other directories  
# in a graphical way. The dependency relations are determined by the #include  
# relations between the files in the directories.

DIRECTORY\_GRAPH = YES

# The DOT\_IMAGE\_FORMAT tag can be used to set the image format of the images  
# generated by dot. Possible values are png, jpg, or gif  
# If left blank png will be used.

DOT\_IMAGE\_FORMAT = png

# The tag DOT\_PATH can be used to specify the path where the dot tool can be  
# found. If left blank, it is assumed the dot tool can be found in the path.

DOT\_PATH =

# The DOTFILE\_DIRS tag can be used to specify one or more directories that  
# contain dot files that are included in the documentation (see the  
# \dotfile command).

DOTFILE\_DIRS =

# The DOT\_GRAPH\_MAX\_NODES tag can be used to set the maximum number of  
# nodes that will be shown in the graph. If the number of nodes in a graph  
# becomes larger than this value, doxygen will truncate the graph, which is  
# visualized by representing a node as a red box. Note that doxygen if the  
# number of direct children of the root node in a graph is already larger than  
# DOT\_GRAPH\_MAX\_NODES then the graph will not be shown at all. Also note  
# that the size of a graph can be further restricted by MAX\_DOT\_GRAPH\_DEPTH.

DOT\_GRAPH\_MAX\_NODES = 50

# The MAX\_DOT\_GRAPH\_DEPTH tag can be used to set the maximum depth of the

# graphs generated by dot. A depth value of 3 means that only nodes reachable  
# from the root by following a path via at most 3 edges will be shown. Nodes  
# that lay further from the root node will be omitted. Note that setting this  
# option to 1 or 2 may greatly reduce the computation time needed for large  
# code bases. Also note that the size of a graph can be further restricted by  
# DOT\_GRAPH\_MAX\_NODES. Using a depth of 0 means no depth restriction.

MAX\_DOT\_GRAPH\_DEPTH = 0

# Set the DOT\_TRANSPARENT tag to YES to generate images with a transparent  
# background. This is disabled by default, because dot on Windows does not  
# seem to support this out of the box. Warning: Depending on the platform used,  
# enabling this option may lead to badly anti-aliased labels on the edges of  
# a graph (i.e. they become hard to read).

DOT\_TRANSPARENT = NO

# Set the DOT\_MULTI\_TARGETS tag to YES allow dot to generate multiple output  
# files in one run (i.e. multiple -o and -T options on the command line). This  
# makes dot run faster, but since only newer versions of dot (>1.8.10)  
# support this, this feature is disabled by default.

DOT\_MULTI\_TARGETS = NO

# If the GENERATE\_LEGEND tag is set to YES (the default) Doxygen will  
# generate a legend page explaining the meaning of the various boxes and  
# arrows in the dot generated graphs.

GENERATE\_LEGEND = YES

# If the DOT\_CLEANUP tag is set to YES (the default) Doxygen will  
# remove the intermediate dot files that are used to generate  
# the various graphs.

DOT\_CLEANUP = YES

#-----  
# Configuration::additions related to the search engine  
#-----

# The SEARCHENGINE tag specifies whether or not a search engine should be  
# used. If set to NO the values of all tags below this one will be ignored.

SEARCHENGINE = NO

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/Doxyfile

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

```
/*
* $Id: multicast.h,v 1.0 Broadcom SDK $
* $Copyright: Copyright 2016 Broadcom Limited.
* This program is the proprietary software of Broadcom Limited
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*
* This file contains multicast definitions.
*/
```

Found in path(s):

```
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/multicast.h  
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/pkt.h
```

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/\*

```
* $Id: phy542xx_regdefs.h,v 1.14 2013/06/19 02:32:30 mpall Exp $  
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*/
```

Found in path(s):

```
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy542xx_regdefs.h
```

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/\*

```
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\*

\* This header file defines packet formats for Ethernet and Broadcom stacking.

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/enet.h  
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\*

\* File: ll.h

\* Purpose: Link Layer interface (MAC and PHY)

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ll.h

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- \*/

Found in path(s):

\*/opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/debug.h  
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- \*
- \* File: sync.h
- \* Purpose: SAL thread definitions
- \*
- \* Note: the SAL mutex abstraction is required to allow the same mutex
- \* to be taken recursively by the same thread without deadlock.
- \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/sync.h

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\* \$Id\$

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gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/all\_doc.h

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\*

\* S-Channel Message: data structure used by firmware to transport

\* S-Channel Data into SOC via CMIC.

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/schanmsg.h  
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\*  
\* Basic type definitions.  
\*/

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\*

\* File: mos\_msg\_common.h

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/shared/mos\_msg  
\_common.h

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\*

\* This file defines common network port modes.

\*

\* Its contents are not used directly by applications; it is used only

\* by header files of parent APIs which need to define port modes.

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/port\_ability.h

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
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\*  
\* Broadcom System Log (bsl)  
\*  
\* Defines for INTERNAL usage only.  
\*/

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
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Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/common/adapter\_in terrupts.h

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\* \$Id: seahawks\_sample.c \$

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\* File: allenum.h

\* Purpose: Enumerated types for fields, memories, registers

\*

\*/

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod\_custom\_config.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/seahawks\_reference\_app/seahawks\_config.h

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```
<tr><td class="entry"><a class="el"
href="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44">confidentiality_of
fset</a></td><td class="entry"><a class="el"
href="structbcm__plp__base__t__secy__sa__i__t.html">bcm__plp__base__t__secy__sa__i__t</a></td><td
class="entry"></td></tr>
```

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/html/structbcm\_\_plp\_\_base\_\_t\_\_secy\_\_sa\_\_i\_\_t-  
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```
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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/cfp.h  
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\*

\* Generic FIFO allocation and maintenance

\*/

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 \*  
 \* ISM management routines  
 \*/

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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ism.h  
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 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/dox/bcm\_common\_defines.h  
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 \*  
 \* File: memory.h  
 \* Purpose: Base definitions for memory types  
 \* Requires:  
 \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier2/phy542xx.c  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier2/phy542xx\_diagnostics.c

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- \* File: macipadr.h
- \* Purpose: Typedefs for MAC and IP addresses
- \*/

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/macipadr.h  
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\*

\* File: phynull.h

\* Purpose:

\*/

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devxs.c

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/c\_hwpal\_device\_umdevxs.h  
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- \* This file defines common PHY register definition.
- \*
- \* Its contents are not used directly by applications; it is used only
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- \*/

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 \*  
 \* Driver utility routines  
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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/util.h  
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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/make/depend.mk  
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/make/config.mk  
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/make/maketools.mk  
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/make/rules.mk  
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/make/lib.mk
```

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```
* $Id: phy542xx_int.h,v 1.6 2013/04/13 00:34:41 majotk Exp $  
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*/
```

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```
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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy542xx_int.h
```

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```
#!/usr/bin/env perl
```

```
#
```

```
# $Id$
```

```
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```

```
#
```

```
# mktool.pl
```

```
#
```

```
use File::Path;
```

```
use File::Find;
```

```
use File::Copy;
```

```
use Cwd;
```

```
($prog = $0) =~ s/.*\///;
```

```
SWITCH:
```

```
{
```

```
    $op = shift;
```

```
    if ($op eq "-rm") { mktool_rm(@ARGV); last SWITCH; }
```

```
    if ($op eq "-cp") { mktool_cp(@ARGV); last SWITCH; }
```

```
    if ($op eq "-md") { mktool_md(@ARGV); last SWITCH; }
```

```
    if ($op eq "-ln") { mktool_ln(@ARGV); last SWITCH; }
```

```
    if ($op eq "-foreach") { mktool_foreach(@ARGV); last SWITCH; }
```

```

if ($op eq "-dep") { mktool_makedep(@ARGV); last SWITCH; }
if ($op eq "-echo") { mktool_echo(@ARGV); last SWITCH; }
if ($op eq "-beep") { mktool_beep(@ARGV); last SWITCH; }
die("$prog: unknown option '$op'\n");
}

```

```

exit 0;

```

```

#
# mktool_execute
#
# Executes a command, returns exist status.
# Performs token special translation before execution.
#

```

```

sub mktool_execute
{
    my $token = shift;
    my @cmds = @_ ;

    # printf("mktool_execute: token = '$token'\n");
    foreach $cmd (@cmds)
    {
        #printf("mktool_execute: cmd = '$cmd'\n");
        $cmd =~ s/\#/#/$token/g;
        if($cmd =~ /^~p/)
        {
            $cmd =~ s/^~p//;
            printf("$cmd\n");
        }
        else
        {
            system($cmd);
            my $excode = ($? >> 8);
            exit $excode if $excode;
        }
    }
}

```

```

$find_regexp = "";
@find_cmd;

```

```

#
# mktool_foreach

```

```

#
sub mktool_foreach
{
    if($_[0] eq "-find")
    {
        shift;
        $find_dir = shift;
        $find_regexp = shift;
        @find_cmds = @_;

        if(!($find_dir =~ /^\/$/))
        {
            $find_dir = cwd() . "/" . $find_dir;
        }
        find(&_mktool_foreach_find_wanted, $find_dir);
    }
    else
    {
        {
            my $subdir = 0;
            if($_[0] eq "-subdir")
            {
                $subdir = 1;
                shift;
            }

            my @thingies = split(' ', shift);

            foreach $thingy (@thingies)
            {
                chdir $thingy unless $subdir == 0;
                mktool_execute($thingy, @_);
                chdir ".." unless $subdir == 0;
            }
        }
    }
}

sub _mktool_foreach_find_wanted
{
    my $expr = "\$File::Find::name =~ /^$find_regexp$/";

    if(eval($expr))
    {
        {
            mktool_execute($File::Find::name, @find_cmds);
            exit $excode if $excode;
        }
    }
}

```

```

#
# rm
#
# Removes a list of objects
#
sub mktool_rm
{
    my($f);

    foreach $f (@_) {
        eval { rmtree($f) };
        if ($?) {
            die "$prog $op: failed to remove $f: $@\n";
        }
    }
}

#
# md
#
# Makes a list of directories
#
sub mktool_md
{
    my($dir);

    foreach $dir (@_) {
        $dir =~ s!/+$/!;
        eval { mkpath($dir) };
        if ($?) {
            die "$prog $op: failed to make directory $dir: $@\n";
        }
    }
}

sub mktool_cp
{
    my($from, $to) = @_;

    if (@_ != 2) {
        die "$prog $op: must have two arguments\n";
    }
    copy($from, $to) ||
        die "$prog $op: failed to copy $from to $to: $!\n";
}

```

```

sub mktool_ln
{
    my($old, $new) = @_ ;

    if (@_ != 2) {
        die "$prog $op: must have two arguments\n";
    }
    link ($old, $new) ||
    die "$prog $op: failed to link $new to $old: $!\n";
}

# @echo "$@" > ${BLDDIR}/${notdir $@}
# @if ($DEPEND) >> ${BLDDIR}/${notdir $@}; then \
#   exit 0; \
# else \
#   rm -f ${BLDDIR}/${notdir $@}; \
#   exit 1; \
# fi

# $(MAKEDEP) "$@" "${BLDDIR}/${notdir $@}" "$(DEPEND)"

sub mktool_makedep
{
    my ($source, $target, $cmd) = @_ ;
    my $result = ` $cmd `;
    if (!$?)
    {
        $result =~ s/^#\.*\n//g; # some makedeps produce comments
        $result =~ s/\n+$/;/; # toss trailing newlines

        open (TARGET, ">$target") ||
            die("$prog $op: cannot open '$target' for writing: $!\n");
        print TARGET "$source \\n${BLDDIR}/${result}\n";
        close(TARGET);
    }
}

sub mktool_echo
{
    print "@_ \n";
}

sub mktool_beep
{
    -t STDOUT && defined $ENV{MAKEBEEP} && print "\007";
}

```



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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/make/mktool.pl

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/seahawks\_reference\_app/Makefile

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\* Useful constants and routines for PHY chips which  
\* run with Orion (10/100/1000 Mb/s enet) and use MII, GMII,  
\* or 8b/10b Serdes interfaces.

\*

\* See Also: IEEE 802.3 (1998) Local and Metropolitan Area Networks  
\* Sections 22.2.4-XX

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phy.h  
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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/common/adapter\_dr  
 iver160\_init\_ext.h  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/common/adapter\_in  
 terrupts.c  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/common/adapter\_in  
 it.c  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/common/adapter\_in  
 terrupts\_ext.h  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/incl/api\_driver160\_init.  
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 gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/vm.h  
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\* File: cmic.h

\* Purpose: Maps out structures used for CMIC operations and  
\* exports routines and constants.

\*/

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
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\* \$Id: \$

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\* \$Id\$

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\* File: field.h

\* Purpose: Register/memory field descriptions

\*/

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\$Id\$

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false - disable confidentiality protection \*/

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_driver.h

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\* File: avl.h

\* Purpose: Defines a generic AVL tree data structure.

\*/

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/avl.h

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*****
/
```

Found in path(s):

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip160_level0.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/adapter_xtsecy.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip160_secy.c
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/incl/eip160_types.h
```

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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_pm\_if/bcm\_pm\_if\_api.h  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/dox/bcm\_pm\_if\_api.h

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\* File: memregs.h

\* Purpose: Memory entry declarations, memory and register macros

\*

\*/

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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/robo\_fp.h  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/drv\_if.h  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/bslenum.h  
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\*

\* Its contents are not used directly by applications; it is used only

\* by header files of parent APIs which need to define port modes.

\*/

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/timesync.h  
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```

*
* File:      defs.h
* Purpose:   Basic defines for system and chips
*           This should be included before all other SOC include
*           files to make sure BCM_xxxx is defined for them.
*/

```

Found in path(s):

```

* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/defs.h
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```

```

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\*

\* This file defines common network port modes.

\*

\* Its contents are not used directly by applications; it is used only

\* by header files of parent APIs which need to define port modes.

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks\_Stand\_Alone\_APis\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/port\_ability.h

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\*

\* \$Id: phymod.c,v 1.2.2.13 2013/08/12 11:43:46 dayad Exp \$

\*

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\*

\*

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/core/phymod.c

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Found in path(s):

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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_diagnostics\_dispatch.h  
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```
<tr class="even"><td class="entry"><a class="el"
href="structbcm__plp__base__t__secy__sa__e__t.html#a6f78468eb0dbc6aea2888df9544b9bc7">confidentiality_of
fset</a></td><td class="entry"><a class="el"
href="structbcm__plp__base__t__secy__sa__e__t.html">bcm_plp_base_t_secy_sa_e_t</a></td><td
class="entry"></td></tr>
```

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/html/structbcm\_\_plp\_\_base\_\_t\_\_secy\_\_sa\_\_e\_\_t-members.html

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\*

\* File: phyecd.c

\* Purpose: PHY ECD routines

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/phyecd.c

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- \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/core/phymod\_acc.c  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/core/phymod\_debug.c  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/acc/phymod\_tsc\_iblk.h  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_debug.h  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_acc.h  
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 \*  
 \* File: phydefs.h  
 \* Purpose: Basic defines for PHYs.  
 \* This should be included after all other SOC include files and  
 \* before all other PHY include files.  
 \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/phydefs.h  
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$Id$
*/

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Found in path(s):

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_pm_if_doc.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/bcm_pm_if/bcm_pm_if_doc.h

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\*

\* File: soc/ethdma.h

\* Purpose:

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ethdma.h

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$Id$
*/
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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_plp\_base\_t\_sec/all\_doc.h  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_plp\_base\_t\_sec/bcm\_plp\_base\_t\_sec\_common.c  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/dox/bcm\_plp\_base\_t\_sec\_common.c  
\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_plp\_base\_t\_sec/bcm\_plp\_base\_t\_sec\_common.h  
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 \*  
 \* File: memacc.h  
 \* Purpose: Memory accessor declarations  
 \*  
 \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
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 \*  
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 \*  
 \* Its contents are not used directly by applications; it is used only  
 \* by header files of parent APIs which need to define port modes.  
 \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/portmode.h  
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 \*  
 \* File: dpc.h  
 \* Purpose: Deferred Procedure Call module  
 \*/

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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/dpc.h  
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 \*  
 \* File: chip.h  
 \* Purpose: Defines for chip types, etc.  
 \* Requires: soc/types.h, memory, register and feature defs.  
 \*  
 \* System on Chip (SOC) basic structures and typedefs  
 \* Each chip consists of a number of blocks. Each block can be  
 \* a port interface controller (PIC) that contains ports.  
 \* The mcm/bcm\*.i files contain definitions of each block and port  
 \* in the associated chip. The structures used in those files  
 \* are defined here. They are used to build internal use data  
 \* structures defined in soc/drv.h  
 \*/  
  
 Found in path(s):  
 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/chip.h  
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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_adapter.h
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 \* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/core/phymod\_dispatch.c  
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 \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phy/phymod\_ctr  
 l.h

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```
<tr class="memitem:aa2c876827f8a8dfa4c09a43182963529"><td class="memItemLeft" align="right"
valign="top">unsigned char&#160;</td><td class="memItemRight" valign="bottom"><a class="el"
href="structbcm_plp_base_t_secy_sa_ca_t.html#aa2c876827f8a8dfa4c09a43182963529">confidentiality_o
ffset</a></td></tr>

<td class="memname">unsigned char bcm_plp_base_t_secy_sa_ca_t::confidentiality_offset</td>

<p>true - enable confidentiality protection (AES-GCM/CTR operation)<br/>
false - disable confidentiality protection (AES-GMAC operation) </p>
```

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/html/structbcm\_plp\_base\_t\_secy\_sa\_ca\_t.html

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*****
/
```

Found in path(s):

`/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/common/adapter_driver165_init.c`

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```
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\* This file defines common error codes to be shared between API layers.

\* Its contents are not used directly by applications; it is used only  
\* by header files of parent APIs which need to define error codes.

\*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/error.h

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 \*  
 \* Broadcom System Log (bSL)  
 \*  
 \* BSL data types and macros  
 \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/bsltypes.h  
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Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/DriverFramework/Device\_API/incl/device\_mgm  
t.h

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\* \$Id\$

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_plp\_base\_t\_sec/bcm\_plp\_base\_t\_sec\_doc.h

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/dox/bcm\_plp\_base\_t\_sec\_doc.h

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_plp\_base\_t\_sec/bcm\_plp\_base\_t\_sec\_sdk\_doc.h

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\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/alloc.h  
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- \* File: phyctrl.h
- \* Purpose: Data structures and function prototypes for PHY configuration.
- \* Note: This header file is for PHY driver module. Should not include
- \* this header file in SOC or BCM layers except
- \* soc/common/phyctrl.c
- \*/

Found in path(s):

\* /opt/cola/permits/1238841148\_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phy/phyctrl.h

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\*

\* File: thread.h

\* Purpose: SAL thread definitions

\*/

Found in path(s):

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/thread.h

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\*

\* File: time.h

\* Purpose: SAL time definitions

\*

\* Microsecond Time Routines

\*

\* The main clock abstraction is sal\_usecs\_t, an unsigned 32-bit  
\* counter that increments every microsecond and wraps around every  
\* 4294.967296 seconds (~71.5 minutes)

\*/

Found in path(s):

```
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/time.h  
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/time.h
```

## 1.259 ndg-httpsclient 0.5.1 r0

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# 1.267 lxml 4.6.2

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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 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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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.

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## 1.271 glib 2.56.4

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

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

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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

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

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```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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-
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-->

<!-- $Id$ -->
```

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

```
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', ' ')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
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      file, You can obtain one at http://mozilla.org/MPL/2.0/.
    </xsl:text>
  </xsl:variable>

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

<!--
```



- Local variables:

- mode: sgml

- End:

-->

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

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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

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

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

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

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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

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## 1.277 iniconfig 1.1.1 r0

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## 1.278 bzip2 1.0.6

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# 1.279 ncclient 0.6.9 r0

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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Upstream-Contact: Doug Ledford <dledford@redhat.com>,  
Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>

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

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

6. As an exception to the Sections above, you may also 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

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# 1.288 libseccomp 2.4.3

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5_et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech_gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech_spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
```

lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
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lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
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lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
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lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c



lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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include/iprof\_hdr.h  
kadmin/server/iprof\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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## 1.293 subwrap 0.1.0 r0

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- (lwithers@gmail.com) contributed fixes to select(2) and read(2) error handling.
- (bob.dunlop@xyzy.org.uk) suggested fix to prevent serial port from becoming controlling terminal.
- Edgar Johansen (edgar@storteig.com) suggested conditionals to enable compilation without UUCP\_LOCK\_DIR
- Scott Tsai (scott.tw@gmail.com) suggested better UUCP\_LOCK\_DIR definition
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"receive" file names. Editing support uses the "linenoise" library. See: <https://github.com/jhandley/picocom>

- Salvatore Sanfilippo (<https://github.com/antirez>) is the author of the linenoise line-editing library. See: <https://github.com/antirez/linenoise>
- From Cody Schafer's (<https://github.com/jmesmon>) fork originated the idea to add custom baudrate support to picocom. See: <https://github.com/jmesmon/picocom>
- From Paul Chakravarti's (<https://github.com/paulchakravarti>) fork originated the idea to add support for disabling the send- and receive-file commands, and for not using the shell when executing external programs (to avoid shell escapes). See: <https://github.com/paulchakravarti/picocom-noexec>
- Vicente Olivert Riera (Vincent.Riera@imgtec.com) contributed minor patches
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- Cody Planteen (<https://github.com/planteen>) contributed the implementation of the toggle-RTS command.
- Joe Merten (<https://github.com/JoeMerten>) contributed the --lower-rts and --lower-dtr options, custom baudrate support for FreeBSD and macOS, the --logfile option implementation, and several bug-fixes.
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- Baruch Siach (<https://github.com/baruchsiach>) contributed improvements to the Makefile
- Christopher N. Hesse (<https://github.com/raymanfx>) contributed the initial Android makefile
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## 1.297 kmod-libs 25

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# 1.299 smartmontools 7.1 r0

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\*

\* S-Channel Message: data structure used by firmware to transport

\* S-Channel Data into SOC via CMIC.

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/schanmsg.h

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/List/src/c\_list.h

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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_diagnostics.h  
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\*

\* File: phyconfig.h

\*

\* Purpose: Set default configuration of the PHYs.

\*/

Found in path(s):

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/phyconfig.h

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 \*  
 \* File: memacc.h  
 \* Purpose: Memory accessor declarations  
 \*  
 \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/mcm/memacc.h  
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\* File: alloc.h

\* Purpose: Memory allocation

\*/

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_plp\_base\_t\_sec/bcm\_plp\_base\_t\_sec\_doc.h

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/dox/bcm\_plp\_base\_t\_sec\_common.c  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_plp\_base\_t\_sec/all\_doc.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
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\* General utility routines

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/util.h  
No license file was found, but licenses were detected in source scan.

```
<LI><OBJECT type="text/sitemap"><param name="Local"
value="structbcm__plp__base__t__secy__sa__ca__t.html#aa2c876827f8a8dfa4c09a43182963529"><param
name="Name" value="confidentiality_offset"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Local"
value="structbcm__plp__base__t__secy__sa__e__t.html#a6f78468eb0dbc6aea2888df9544b9bc7"><param
name="Name" value="confidentiality_offset"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Local"
value="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44"><param
name="Name" value="confidentiality_offset"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Local"
value="structbcm__plp__base__t__secy__sa__ca__t.html#aa2c876827f8a8dfa4c09a43182963529"><param
name="Name" value="confidentiality_offset"></OBJECT>
```

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/html/index.hhk  
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*/
```

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/common/c\_adapter\_  
eip160.h  
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 \* \$Id\$  
 \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/seahawks\_reference\_app/seahawks\_common.h  
 No license file was found, but licenses were detected in source scan.

<tr class="even"><td class="entry"><a class="el"  
 href="structbcm\_\_plp\_\_base\_\_t\_\_secy\_\_sa\_\_ca\_\_t.html#aa2c876827f8a8dfa4c09a43182963529">confidentiality\_o  
 ffset</a></td><td class="entry"><a class="el"

href="structbcm\_\_plp\_\_base\_\_t\_\_secy\_\_sa\_\_ca\_\_t.html">bcm\_plp\_base\_t\_secy\_sa\_ca\_t</a></td><td  
class="entry"></td></tr>

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/html/structbcm\_\_plp\_\_base\_\_t\_\_secy\_\_sa\_\_ca\_\_t-  
members.html

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- \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/phyreg.h

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- \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/seahawks\_reference\_app/Makefile

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/incl/eip160\_rules.h

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\*

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\*/

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/error.h

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 \*  
 \* File: macipadr.h  
 \* Purpose: Typedefs for MAC and IP addresses  
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gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phyreg.h  
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- gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/core/phymod\_dispatch.c
- \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
- gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/core/phymod\_diagnostics\_dispatch.c

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Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/phy542xx\_diagnostics\_dispatch.c  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/phy542xx\_dispatch.c

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 \*  
 \* File: allenum.h  
 \* Purpose: Enumerated types for fields, memories, registers  
 \*  
 \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/mcm/allenum.h  
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Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/common/adapter\_all  
 oc.h  
 No license file was found, but licenses were detected in source scan.

/\*  
 \*  
 \* \$Id: phymod\_definitions.h,v 1.2.2.12 2013/09/03 06:54:51 dayad Exp \$  
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\*  
\* Shell diagnostics of Phymod  
\*  
\*/

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_util.h  
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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/dport.h

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```
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 \*  
 \* File: phynull.h  
 \* Purpose:  
 \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/phynull.h  
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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/cmtypes.h  
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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/all\_doc.h  
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# Doxyfile 1.5.7

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 # \$Id\$

# This file describes the settings to be used by the documentation system

# doxygen (www.doxygen.org) for a project

#

# All text after a hash (#) is considered a comment and will be ignored

# The format is:

# TAG = value [value, ...]

# For lists items can also be appended using:

# TAG += value [value, ...]

# Values that contain spaces should be placed between quotes (" ")

#-----

# Project related configuration options

#-----

# This tag specifies the encoding used for all characters in the config file  
# that follow. The default is UTF-8 which is also the encoding used for all  
# text before the first occurrence of this tag. Doxygen uses libiconv (or the  
# iconv built into libc) for the transcoding. See  
# <http://www.gnu.org/software/libiconv> for the list of possible encodings.

DOXYFILE\_ENCODING = UTF-8

# The PROJECT\_NAME tag is a single word (or a sequence of words surrounded  
# by quotes) that should identify the project.

PROJECT\_NAME = PHYMod

# The PROJECT\_NUMBER tag can be used to enter a project or revision number.  
# This could be handy for archiving the generated documentation or  
# if some version control system is used.

PROJECT\_NUMBER = 1.1

# The OUTPUT\_DIRECTORY tag is used to specify the (relative or absolute)  
# base path where the generated documentation will be put.  
# If a relative path is entered, it will be relative to the location  
# where doxygen was started. If left blank the current directory will be used.

OUTPUT\_DIRECTORY = .

# If the CREATE\_SUBDIRS tag is set to YES, then doxygen will create  
# 4096 sub-directories (in 2 levels) under the output directory of each output  
# format and will distribute the generated files over these directories.  
# Enabling this option can be useful when feeding doxygen a huge amount of  
# source files, where putting all generated files in the same directory would  
# otherwise cause performance problems for the file system.

CREATE\_SUBDIRS = NO

# The OUTPUT\_LANGUAGE tag is used to specify the language in which all  
# documentation generated by doxygen is written. Doxygen will use this  
# information to generate all constant output in the proper language.  
# The default language is English, other supported languages are:  
# Afrikaans, Arabic, Brazilian, Catalan, Chinese, Chinese-Traditional,  
# Croatian, Czech, Danish, Dutch, Farsi, Finnish, French, German, Greek,  
# Hungarian, Italian, Japanese, Japanese-en (Japanese with English messages),  
# Korean, Korean-en, Lithuanian, Norwegian, Macedonian, Persian, Polish,  
# Portuguese, Romanian, Russian, Serbian, Serbian-Cyrilic, Slovak, Slovene,  
# Spanish, Swedish, and Ukrainian.

OUTPUT\_LANGUAGE = English

# If the BRIEF\_MEMBER\_DESC tag is set to YES (the default) Doxygen will  
# include brief member descriptions after the members that are listed in  
# the file and class documentation (similar to JavaDoc).  
# Set to NO to disable this.

BRIEF\_MEMBER\_DESC = NO

# If the REPEAT\_BRIEF tag is set to YES (the default) Doxygen will prepend  
# the brief description of a member or function before the detailed description.  
# Note: if both HIDE\_UNDOC\_MEMBERS and BRIEF\_MEMBER\_DESC are set to NO, the  
# brief descriptions will be completely suppressed.

REPEAT\_BRIEF = NO

# This tag implements a quasi-intelligent brief description abbreviator  
# that is used to form the text in various listings. Each string  
# in this list, if found as the leading text of the brief description, will be  
# stripped from the text and the result after processing the whole list, is  
# used as the annotated text. Otherwise, the brief description is used as-is.  
# If left blank, the following values are used (" \$name" is automatically  
# replaced with the name of the entity): "The \$name class" "The \$name widget"  
# "The \$name file" "is" "provides" "specifies" "contains"  
# "represents" "a" "an" "the"

ABBREVIATE\_BRIEF =

# If the ALWAYS\_DETAILED\_SEC and REPEAT\_BRIEF tags are both set to YES then  
# Doxygen will generate a detailed section even if there is only a brief  
# description.

ALWAYS\_DETAILED\_SEC = NO

# If the INLINE\_INHERITED\_MEMB tag is set to YES, doxygen will show all  
# inherited members of a class in the documentation of that class as if those  
# members were ordinary class members. Constructors, destructors and assignment  
# operators of the base classes will not be shown.

INLINE\_INHERITED\_MEMB = NO

# If the FULL\_PATH\_NAMES tag is set to YES then Doxygen will prepend the full  
# path before file name in the file list and in the header files. If set  
# to NO the shortest path that makes the file name unique will be used.

FULL\_PATH\_NAMES = YES

# If the FULL\_PATH\_NAMES tag is set to YES then the STRIP\_FROM\_PATH tag  
# can be used to strip a user-defined part of the path. Stripping is



# only done if one of the specified strings matches the left-hand part of  
# the path. The tag can be used to show relative paths in the file list.  
# If left blank the directory from which doxygen is run is used as the  
# path to strip.

STRIP\_FROM\_PATH =

# The STRIP\_FROM\_INC\_PATH tag can be used to strip a user-defined part of  
# the path mentioned in the documentation of a class, which tells  
# the reader which header file to include in order to use a class.  
# If left blank only the name of the header file containing the class  
# definition is used. Otherwise one should specify the include paths that  
# are normally passed to the compiler using the -I flag.

STRIP\_FROM\_INC\_PATH =

# If the SHORT\_NAMES tag is set to YES, doxygen will generate much shorter  
# (but less readable) file names. This can be useful if your file systems  
# doesn't support long names like on DOS, Mac, or CD-ROM.

SHORT\_NAMES = NO

# If the JAVADOC\_AUTOBRIEF tag is set to YES then Doxygen  
# will interpret the first line (until the first dot) of a JavaDoc-style  
# comment as the brief description. If set to NO, the JavaDoc  
# comments will behave just like regular Qt-style comments  
# (thus requiring an explicit @brief command for a brief description.)

JAVADOC\_AUTOBRIEF = NO

# If the QT\_AUTOBRIEF tag is set to YES then Doxygen will  
# interpret the first line (until the first dot) of a Qt-style  
# comment as the brief description. If set to NO, the comments  
# will behave just like regular Qt-style comments (thus requiring  
# an explicit \brief command for a brief description.)

QT\_AUTOBRIEF = NO

# The MULTILINE\_CPP\_IS\_BRIEF tag can be set to YES to make Doxygen  
# treat a multi-line C++ special comment block (i.e. a block of `///  
//`  
# comments) as a brief description. This used to be the default behaviour.  
# The new default is to treat a multi-line C++ comment block as a detailed  
# description. Set this tag to YES if you prefer the old behaviour instead.

MULTILINE\_CPP\_IS\_BRIEF = NO

# If the INHERIT\_DOCS tag is set to YES (the default) then an undocumented  
# member inherits the documentation from any documented member that it

# re-implements.

INHERIT\_DOCS = YES

# If the SEPARATE\_MEMBER\_PAGES tag is set to YES, then doxygen will produce  
# a new page for each member. If set to NO, the documentation of a member will  
# be part of the file/class/namespace that contains it.

SEPARATE\_MEMBER\_PAGES = NO

# The TAB\_SIZE tag can be used to set the number of spaces in a tab.  
# Doxygen uses this value to replace tabs by spaces in code fragments.

TAB\_SIZE = 8

# This tag can be used to specify a number of aliases that acts  
# as commands in the documentation. An alias has the form "name=value".  
# For example adding "sideeffect=\par Side Effects:\n" will allow you to  
# put the command \sideeffect (or @sideeffect) in the documentation, which  
# will result in a user-defined paragraph with heading "Side Effects:".  
# You can put \n's in the value part of an alias to insert newlines.

ALIASES =

# Set the OPTIMIZE\_OUTPUT\_FOR\_C tag to YES if your project consists of C  
# sources only. Doxygen will then generate output that is more tailored for C.  
# For instance, some of the names that are used will be different. The list  
# of all members will be omitted, etc.

OPTIMIZE\_OUTPUT\_FOR\_C = NO

# Set the OPTIMIZE\_OUTPUT\_JAVA tag to YES if your project consists of Java  
# sources only. Doxygen will then generate output that is more tailored for  
# Java. For instance, namespaces will be presented as packages, qualified  
# scopes will look different, etc.

OPTIMIZE\_OUTPUT\_JAVA = NO

# Set the OPTIMIZE\_FOR\_FORTRAN tag to YES if your project consists of Fortran  
# sources only. Doxygen will then generate output that is more tailored for  
# Fortran.

OPTIMIZE\_FOR\_FORTRAN = NO

# Set the OPTIMIZE\_OUTPUT\_VHDL tag to YES if your project consists of VHDL  
# sources. Doxygen will then generate output that is tailored for  
# VHDL.

OPTIMIZE\_OUTPUT\_VHDL = NO

# If you use STL classes (i.e. std::string, std::vector, etc.) but do not want  
# to include (a tag file for) the STL sources as input, then you should  
# set this tag to YES in order to let doxygen match functions declarations and  
# definitions whose arguments contain STL classes (e.g. func(std::string); v.s.  
# func(std::string) {}). This also make the inheritance and collaboration  
# diagrams that involve STL classes more complete and accurate.

BUILTIN\_STL\_SUPPORT = NO

# If you use Microsoft's C++/CLI language, you should set this option to YES to  
# enable parsing support.

CPP\_CLI\_SUPPORT = NO

# Set the SIP\_SUPPORT tag to YES if your project consists of sip sources only.  
# Doxygen will parse them like normal C++ but will assume all classes use public  
# instead of private inheritance when no explicit protection keyword is present.

SIP\_SUPPORT = NO

# For Microsoft's IDL there are propget and propput attributes to indicate getter  
# and setter methods for a property. Setting this option to YES (the default)  
# will make doxygen to replace the get and set methods by a property in the  
# documentation. This will only work if the methods are indeed getting or  
# setting a simple type. If this is not the case, or you want to show the  
# methods anyway, you should set this option to NO.

IDL\_PROPERTY\_SUPPORT = YES

# If member grouping is used in the documentation and the DISTRIBUTE\_GROUP\_DOC  
# tag is set to YES, then doxygen will reuse the documentation of the first  
# member in the group (if any) for the other members of the group. By default  
# all members of a group must be documented explicitly.

DISTRIBUTE\_GROUP\_DOC = NO

# Set the SUBGROUPING tag to YES (the default) to allow class member groups of  
# the same type (for instance a group of public functions) to be put as a  
# subgroup of that type (e.g. under the Public Functions section). Set it to  
# NO to prevent subgrouping. Alternatively, this can be done per class using  
# the \nosubgrouping command.

SUBGROUPING = YES

# When TYPEDEF\_HIDES\_STRUCT is enabled, a typedef of a struct, union, or enum  
# is documented as struct, union, or enum with the name of the typedef. So

# typedef struct TypeS { } TypeT, will appear in the documentation as a struct  
# with name TypeT. When disabled the typedef will appear as a member of a file,  
# namespace, or class. And the struct will be named TypeS. This can typically  
# be useful for C code in case the coding convention dictates that all compound  
# types are typedef'ed and only the typedef is referenced, never the tag name.

TYPEDEF\_HIDES\_STRUCT = NO

# The SYMBOL\_CACHE\_SIZE determines the size of the internal cache use to  
# determine which symbols to keep in memory and which to flush to disk.  
# When the cache is full, less often used symbols will be written to disk.  
# For small to medium size projects (<1000 input files) the default value is  
# probably good enough. For larger projects a too small cache size can cause  
# doxygen to be busy swapping symbols to and from disk most of the time  
# causing a significant performance penalty.  
# If the system has enough physical memory increasing the cache will improve the  
# performance by keeping more symbols in memory. Note that the value works on  
# a logarithmic scale so increasing the size by one will roughly double the  
# memory usage. The cache size is given by this formula:  
#  $2^{(16+SYMBOL\_CACHE\_SIZE)}$ . The valid range is 0..9, the default is 0,  
# corresponding to a cache size of  $2^{16} = 65536$  symbols

SYMBOL\_CACHE\_SIZE = 0

#-----  
# Build related configuration options  
#-----

# If the EXTRACT\_ALL tag is set to YES doxygen will assume all entities in  
# documentation are documented, even if no documentation was available.  
# Private class members and static file members will be hidden unless  
# the EXTRACT\_PRIVATE and EXTRACT\_STATIC tags are set to YES

EXTRACT\_ALL = YES

# If the EXTRACT\_PRIVATE tag is set to YES all private members of a class  
# will be included in the documentation.

EXTRACT\_PRIVATE = NO

# If the EXTRACT\_STATIC tag is set to YES all static members of a file  
# will be included in the documentation.

EXTRACT\_STATIC = NO

# If the EXTRACT\_LOCAL\_CLASSES tag is set to YES classes (and structs)  
# defined locally in source files will be included in the documentation.  
# If set to NO only classes defined in header files are included.

EXTRACT\_LOCAL\_CLASSES = YES

# This flag is only useful for Objective-C code. When set to YES local  
# methods, which are defined in the implementation section but not in  
# the interface are included in the documentation.  
# If set to NO (the default) only methods in the interface are included.

EXTRACT\_LOCAL\_METHODS = NO

# If this flag is set to YES, the members of anonymous namespaces will be  
# extracted and appear in the documentation as a namespace called  
# 'anonymous\_namespace{file}', where file will be replaced with the base  
# name of the file that contains the anonymous namespace. By default  
# anonymous namespace are hidden.

EXTRACT\_ANON\_NSPACES = NO

# If the HIDE\_UNDOC\_MEMBERS tag is set to YES, Doxygen will hide all  
# undocumented members of documented classes, files or namespaces.  
# If set to NO (the default) these members will be included in the  
# various overviews, but no documentation section is generated.  
# This option has no effect if EXTRACT\_ALL is enabled.

HIDE\_UNDOC\_MEMBERS = YES

# If the HIDE\_UNDOC\_CLASSES tag is set to YES, Doxygen will hide all  
# undocumented classes that are normally visible in the class hierarchy.  
# If set to NO (the default) these classes will be included in the various  
# overviews. This option has no effect if EXTRACT\_ALL is enabled.

HIDE\_UNDOC\_CLASSES = YES

# If the HIDE\_FRIEND\_COMPOUNDS tag is set to YES, Doxygen will hide all  
# friend (class|struct|union) declarations.  
# If set to NO (the default) these declarations will be included in the  
# documentation.

HIDE\_FRIEND\_COMPOUNDS = YES

# If the HIDE\_IN\_BODY\_DOCS tag is set to YES, Doxygen will hide any  
# documentation blocks found inside the body of a function.  
# If set to NO (the default) these blocks will be appended to the  
# function's detailed documentation block.

HIDE\_IN\_BODY\_DOCS = YES

# The INTERNAL\_DOCS tag determines if documentation

# that is typed after a \internal command is included. If the tag is set  
# to NO (the default) then the documentation will be excluded.  
# Set it to YES to include the internal documentation.

INTERNAL\_DOCS = NO

# If the CASE\_SENSE\_NAMES tag is set to NO then Doxygen will only generate  
# file names in lower-case letters. If set to YES upper-case letters are also  
# allowed. This is useful if you have classes or files whose names only differ  
# in case and if your file system supports case sensitive file names. Windows  
# and Mac users are advised to set this option to NO.

CASE\_SENSE\_NAMES = YES

# If the HIDE\_SCOPE\_NAMES tag is set to NO (the default) then Doxygen  
# will show members with their full class and namespace scopes in the  
# documentation. If set to YES the scope will be hidden.

HIDE\_SCOPE\_NAMES = NO

# If the SHOW\_INCLUDE\_FILES tag is set to YES (the default) then Doxygen  
# will put a list of the files that are included by a file in the documentation  
# of that file.

SHOW\_INCLUDE\_FILES = NO

# If the INLINE\_INFO tag is set to YES (the default) then a tag [inline]  
# is inserted in the documentation for inline members.

INLINE\_INFO = YES

# If the SORT\_MEMBER\_DOCS tag is set to YES (the default) then doxygen  
# will sort the (detailed) documentation of file and class members  
# alphabetically by member name. If set to NO the members will appear in  
# declaration order.

SORT\_MEMBER\_DOCS = NO

# If the SORT\_BRIEF\_DOCS tag is set to YES then doxygen will sort the  
# brief documentation of file, namespace and class members alphabetically  
# by member name. If set to NO (the default) the members will appear in  
# declaration order.

SORT\_BRIEF\_DOCS = NO

# If the SORT\_GROUP\_NAMES tag is set to YES then doxygen will sort the  
# hierarchy of group names into alphabetical order. If set to NO (the default)  
# the group names will appear in their defined order.

`SORT_GROUP_NAMES` = NO

# If the `SORT_BY_SCOPE_NAME` tag is set to YES, the class list will be  
# sorted by fully-qualified names, including namespaces. If set to  
# NO (the default), the class list will be sorted only by class name,  
# not including the namespace part.  
# Note: This option is not very useful if `HIDE_SCOPE_NAMES` is set to YES.  
# Note: This option applies only to the class list, not to the  
# alphabetical list.

`SORT_BY_SCOPE_NAME` = NO

# The `GENERATE_TODO_LIST` tag can be used to enable (YES) or  
# disable (NO) the todo list. This list is created by putting `\todo`  
# commands in the documentation.

`GENERATE_TODO_LIST` = YES

# The `GENERATE_TESTLIST` tag can be used to enable (YES) or  
# disable (NO) the test list. This list is created by putting `\test`  
# commands in the documentation.

`GENERATE_TESTLIST` = YES

# The `GENERATE_BUGLIST` tag can be used to enable (YES) or  
# disable (NO) the bug list. This list is created by putting `\bug`  
# commands in the documentation.

`GENERATE_BUGLIST` = YES

# The `GENERATE_DEPRECATEDLIST` tag can be used to enable (YES) or  
# disable (NO) the deprecated list. This list is created by putting  
# `\deprecated` commands in the documentation.

`GENERATE_DEPRECATEDLIST` = YES

# The `ENABLED_SECTIONS` tag can be used to enable conditional  
# documentation sections, marked by `\if sectionname ... \endif`.

`ENABLED_SECTIONS` =

# The `MAX_INITIALIZER_LINES` tag determines the maximum number of lines  
# the initial value of a variable or define consists of for it to appear in  
# the documentation. If the initializer consists of more lines than specified  
# here it will be hidden. Use a value of 0 to hide initializers completely.  
# The appearance of the initializer of individual variables and defines in the  
# documentation can be controlled using `\showinitializer` or `\hideinitializer`

# command in the documentation regardless of this setting.

MAX\_INITIALIZER\_LINES = 30

# Set the SHOW\_USED\_FILES tag to NO to disable the list of files generated  
# at the bottom of the documentation of classes and structs. If set to YES the  
# list will mention the files that were used to generate the documentation.

SHOW\_USED\_FILES = NO

# If the sources in your project are distributed over multiple directories  
# then setting the SHOW\_DIRECTORIES tag to YES will show the directory hierarchy  
# in the documentation. The default is NO.

#SHOW\_DIRECTORIES = NO

# Set the SHOW\_FILES tag to NO to disable the generation of the Files page.  
# This will remove the Files entry from the Quick Index and from the  
# Folder Tree View (if specified). The default is YES.

SHOW\_FILES = YES

# Set the SHOW\_NAMESPACES tag to NO to disable the generation of the  
# Namespaces page. This will remove the Namespaces entry from the Quick Index  
# and from the Folder Tree View (if specified). The default is YES.

SHOW\_NAMESPACES = YES

# The FILE\_VERSION\_FILTER tag can be used to specify a program or script that  
# doxygen should invoke to get the current version for each file (typically from  
# the version control system). Doxygen will invoke the program by executing (via  
# popen()) the command <command> <input-file>, where <command> is the value of  
# the FILE\_VERSION\_FILTER tag, and <input-file> is the name of an input file  
# provided by doxygen. Whatever the program writes to standard output  
# is used as the file version. See the manual for examples.

FILE\_VERSION\_FILTER =

# The LAYOUT\_FILE tag can be used to specify a layout file which will be parsed  
# by doxygen. The layout file controls the global structure of the generated  
# output files in an output format independent way. To create the layout file  
# that represents doxygen's defaults, run doxygen with the -l option. You can  
# optionally specify a file name after the option, if omitted DoxygenLayout.xml  
# will be used as the name of the layout file.

LAYOUT\_FILE =

#-----



# configuration options related to warning and progress messages

#-----

# The QUIET tag can be used to turn on/off the messages that are generated  
# by doxygen. Possible values are YES and NO. If left blank NO is used.

QUIET = YES

# The WARNINGS tag can be used to turn on/off the warning messages that are  
# generated by doxygen. Possible values are YES and NO. If left blank  
# NO is used.

WARNINGS = YES

# If WARN\_IF\_UNDOCUMENTED is set to YES, then doxygen will generate warnings  
# for undocumented members. If EXTRACT\_ALL is set to YES then this flag will  
# automatically be disabled.

WARN\_IF\_UNDOCUMENTED = YES

# If WARN\_IF\_DOC\_ERROR is set to YES, doxygen will generate warnings for  
# potential errors in the documentation, such as not documenting some  
# parameters in a documented function, or documenting parameters that  
# don't exist or using markup commands wrongly.

WARN\_IF\_DOC\_ERROR = YES

# This WARN\_NO\_PARAMDOC option can be used to get warnings for  
# functions that are documented, but have no documentation for their parameters  
# or return value. If set to NO (the default) doxygen will only warn about  
# wrong or incomplete parameter documentation, but not about the absence of  
# documentation.

WARN\_NO\_PARAMDOC = NO

# The WARN\_FORMAT tag determines the format of the warning messages that  
# doxygen can produce. The string should contain the \$file, \$line, and \$text  
# tags, which will be replaced by the file and line number from which the  
# warning originated and the warning text. Optionally the format may contain  
# \$version, which will be replaced by the version of the file (if it could  
# be obtained via FILE\_VERSION\_FILTER)

WARN\_FORMAT = "\$file:\$line: \$text"

# The WARN\_LOGFILE tag can be used to specify a file to which warning  
# and error messages should be written. If left blank the output is written  
# to stderr.

WARN\_LOGFILE =

#-----  
# configuration options related to the input files  
#-----

# The INPUT tag can be used to specify the files and/or directories that contain  
# documented source files. You may enter file names like "myfile.cpp" or  
# directories like "/usr/src/myproject". Separate the files or directories  
# with spaces.

INPUT = dox/

# This tag can be used to specify the character encoding of the source files  
# that doxygen parses. Internally doxygen uses the UTF-8 encoding, which is  
# also the default input encoding. Doxygen uses libiconv (or the iconv built  
# into libc) for the transcoding. See <http://www.gnu.org/software/libiconv> for  
# the list of possible encodings.

INPUT\_ENCODING = UTF-8

# If the value of the INPUT tag contains directories, you can use the  
# FILE\_PATTERNS tag to specify one or more wildcard pattern (like \*.cpp  
# and \*.h) to filter out the source-files in the directories. If left  
# blank the following patterns are tested:  
# \*.c \*.cc \*.cxx \*.cpp \*.c++ \*.java \*.ii \*.ixx \*.ipp \*.i++ \*.inl \*.h \*.hh \*.hxx  
# \*.hpp \*.h++ \*.idl \*.odl \*.cs \*.php \*.php3 \*.inc \*.m \*.mm \*.py \*.f90

FILE\_PATTERNS = \*.c \*.h

# The RECURSIVE tag can be used to turn specify whether or not subdirectories  
# should be searched for input files as well. Possible values are YES and NO.  
# If left blank NO is used.

RECURSIVE = NO

# The EXCLUDE tag can be used to specify files and/or directories that should  
# be excluded from the INPUT source files. This way you can easily exclude a  
# subdirectory from a directory tree whose root is specified with the INPUT tag.

EXCLUDE =

# The EXCLUDE\_SYMLINKS tag can be used select whether or not files or  
# directories that are symbolic links (a Unix filesystem feature) are excluded  
# from the input.

EXCLUDE\_SYMLINKS = NO

# If the value of the INPUT tag contains directories, you can use the  
# EXCLUDE\_PATTERNS tag to specify one or more wildcard patterns to exclude  
# certain files from those directories. Note that the wildcards are matched  
# against the file with absolute path, so to exclude all test directories  
# for example use the pattern \*/test/\*

EXCLUDE\_PATTERNS =

# The EXCLUDE\_SYMBOLS tag can be used to specify one or more symbol names  
# (namespaces, classes, functions, etc.) that should be excluded from the  
# output. The symbol name can be a fully qualified name, a word, or if the  
# wildcard \* is used, a substring. Examples: ANamespace, AClass,  
# AClass::ANamespace, ANamespace::\*Test

EXCLUDE\_SYMBOLS = clone

# The EXAMPLE\_PATH tag can be used to specify one or more files or  
# directories that contain example code fragments that are included (see  
# the \include command).

EXAMPLE\_PATH =

# If the value of the EXAMPLE\_PATH tag contains directories, you can use the  
# EXAMPLE\_PATTERNS tag to specify one or more wildcard pattern (like \*.cpp  
# and \*.h) to filter out the source-files in the directories. If left  
# blank all files are included.

EXAMPLE\_PATTERNS =

# If the EXAMPLE\_RECURSIVE tag is set to YES then subdirectories will be  
# searched for input files to be used with the \include or \dontinclude  
# commands irrespective of the value of the RECURSIVE tag.  
# Possible values are YES and NO. If left blank NO is used.

EXAMPLE\_RECURSIVE = NO

# The IMAGE\_PATH tag can be used to specify one or more files or  
# directories that contain image that are included in the documentation (see  
# the \image command).

IMAGE\_PATH = /projects/ntsw-sw2/home/ravick/img

# The INPUT\_FILTER tag can be used to specify a program that doxygen should  
# invoke to filter for each input file. Doxygen will invoke the filter program  
# by executing (via popen()) the command <filter> <input-file>, where <filter>  
# is the value of the INPUT\_FILTER tag, and <input-file> is the name of an  
# input file. Doxygen will then use the output that the filter program writes  
# to standard output. If FILTER\_PATTERNS is specified, this tag will be

# ignored.

INPUT\_FILTER =

# The FILTER\_PATTERNS tag can be used to specify filters on a per file pattern  
# basis. Doxygen will compare the file name with each pattern and apply the  
# filter if there is a match. The filters are a list of the form:  
# pattern=filter (like \*.cpp=my\_cpp\_filter). See INPUT\_FILTER for further  
# info on how filters are used. If FILTER\_PATTERNS is empty, INPUT\_FILTER  
# is applied to all files.

FILTER\_PATTERNS =

# If the FILTER\_SOURCE\_FILES tag is set to YES, the input filter (if set using  
# INPUT\_FILTER) will be used to filter the input files when producing source  
# files to browse (i.e. when SOURCE\_BROWSER is set to YES).

FILTER\_SOURCE\_FILES = NO

#-----  
# configuration options related to source browsing  
#-----

# If the SOURCE\_BROWSER tag is set to YES then a list of source files will  
# be generated. Documented entities will be cross-referenced with these sources.  
# Note: To get rid of all source code in the generated output, make sure also  
# VERBATIM\_HEADERS is set to NO.

SOURCE\_BROWSER = NO

# Setting the INLINE\_SOURCES tag to YES will include the body  
# of functions and classes directly in the documentation.

INLINE\_SOURCES = NO

# Setting the STRIP\_CODE\_COMMENTS tag to YES (the default) will instruct  
# doxygen to hide any special comment blocks from generated source code  
# fragments. Normal C and C++ comments will always remain visible.

STRIP\_CODE\_COMMENTS = YES

# If the REFERENCED\_BY\_RELATION tag is set to YES  
# then for each documented function all documented  
# functions referencing it will be listed.

REFERENCED\_BY\_RELATION = NO

# If the REFERENCES\_RELATION tag is set to YES

# then for each documented function all documented entities  
# called/used by that function will be listed.

REFERENCES\_RELATION = NO

# If the REFERENCES\_LINK\_SOURCE tag is set to YES (the default)  
# and SOURCE\_BROWSER tag is set to YES, then the hyperlinks from  
# functions in REFERENCES\_RELATION and REFERENCED\_BY\_RELATION lists will  
# link to the source code. Otherwise they will link to the documentstion.

REFERENCES\_LINK\_SOURCE = YES

# If the USE\_HTAGS tag is set to YES then the references to source code  
# will point to the HTML generated by the htags(1) tool instead of doxygen  
# built-in source browser. The htags tool is part of GNU's global source  
# tagging system (see <http://www.gnu.org/software/global/global.html>). You  
# will need version 4.8.6 or higher.

USE\_HTAGS = NO

# If the VERBATIM\_HEADERS tag is set to YES (the default) then Doxygen  
# will generate a verbatim copy of the header file for each class for  
# which an include is specified. Set to NO to disable this.

VERBATIM\_HEADERS = NO

#-----  
# configuration options related to the alphabetical class index  
#-----

# If the alphabetical index is enabled (see ALPHABETICAL\_INDEX) then  
# the COLS\_IN\_ALPHA\_INDEX tag can be used to specify the number of columns  
# in which this list will be split (can be a number in the range [1..20])

COLS\_IN\_ALPHA\_INDEX = 5

# In case all classes in a project start with a common prefix, all  
# classes will be put under the same header in the alphabetical index.  
# The IGNORE\_PREFIX tag can be used to specify one or more prefixes that  
# should be ignored while generating the index headers.

IGNORE\_PREFIX =

#-----  
# configuration options related to the HTML output  
#-----

# If the GENERATE\_HTML tag is set to YES (the default) Doxygen will

# generate HTML output.

GENERATE\_HTML = YES

# The HTML\_OUTPUT tag is used to specify where the HTML docs will be put.

# If a relative path is entered the value of OUTPUT\_DIRECTORY will be

# put in front of it. If left blank 'html' will be used as the default path.

HTML\_OUTPUT = html

# The HTML\_FILE\_EXTENSION tag can be used to specify the file extension for

# each generated HTML page (for example: .htm,.php,.asp). If it is left blank

# doxygen will generate files with .html extension.

HTML\_FILE\_EXTENSION = .html

# The HTML\_HEADER tag can be used to specify a personal HTML header for

# each generated HTML page. If it is left blank doxygen will generate a

# standard header.

HTML\_HEADER =

# The HTML\_FOOTER tag can be used to specify a personal HTML footer for

# each generated HTML page. If it is left blank doxygen will generate a

# standard footer.

HTML\_FOOTER =

# The HTML\_STYLESHEET tag can be used to specify a user-defined cascading

# style sheet that is used by each HTML page. It can be used to

# fine-tune the look of the HTML output. If the tag is left blank doxygen

# will generate a default style sheet. Note that doxygen will try to copy

# the style sheet file to the HTML output directory, so don't put your own

# stylesheet in the HTML output directory as well, or it will be erased!

HTML\_STYLESHEET =

# If the HTML\_ALIGN\_MEMBERS tag is set to YES, the members of classes,

# files or namespaces will be aligned in HTML using tables. If set to

# NO a bullet list will be used.

#HTML\_ALIGN\_MEMBERS = YES

# If the HTML\_DYNAMIC\_SECTIONS tag is set to YES then the generated HTML

# documentation will contain sections that can be hidden and shown after the

# page has loaded. For this to work a browser that supports

# JavaScript and DHTML is required (for instance Mozilla 1.0+, Firefox

# Netscape 6.0+, Internet explorer 5.0+, Konqueror, or Safari).

HTML\_DYNAMIC\_SECTIONS = NO

# If the GENERATE\_DOCSET tag is set to YES, additional index files  
# will be generated that can be used as input for Apple's Xcode 3  
# integrated development environment, introduced with OSX 10.5 (Leopard).  
# To create a documentation set, doxygen will generate a Makefile in the  
# HTML output directory. Running make will produce the docset in that  
# directory and running "make install" will install the docset in  
# ~/Library/Developer/Shared/Documentation/DocSets so that Xcode will find  
# it at startup.  
# See <http://developer.apple.com/tools/creatingdocsetswithdoxygen.html> for more information.

GENERATE\_DOCSET = NO

# When GENERATE\_DOCSET tag is set to YES, this tag determines the name of the  
# feed. A documentation feed provides an umbrella under which multiple  
# documentation sets from a single provider (such as a company or product suite)  
# can be grouped.

DOCSET\_FEEDNAME = "Doxygen generated docs"

# When GENERATE\_DOCSET tag is set to YES, this tag specifies a string that  
# should uniquely identify the documentation set bundle. This should be a  
# reverse domain-name style string, e.g. com.mycompany.MyDocSet. Doxygen  
# will append .docset to the name.

DOCSET\_BUNDLE\_ID = org.doxygen.Project

# If the GENERATE\_HTMLHELP tag is set to YES, additional index files  
# will be generated that can be used as input for tools like the  
# Microsoft HTML help workshop to generate a compiled HTML help file (.chm)  
# of the generated HTML documentation.

GENERATE\_HTMLHELP = NO

# If the GENERATE\_HTMLHELP tag is set to YES, the CHM\_FILE tag can  
# be used to specify the file name of the resulting .chm file. You  
# can add a path in front of the file if the result should not be  
# written to the html output directory.

CHM\_FILE =

# If the GENERATE\_HTMLHELP tag is set to YES, the HHC\_LOCATION tag can  
# be used to specify the location (absolute path including file name) of  
# the HTML help compiler (hhc.exe). If non-empty doxygen will try to run  
# the HTML help compiler on the generated index.hhp.

HHC\_LOCATION =

# If the GENERATE\_HTMLHELP tag is set to YES, the GENERATE\_CHI flag  
# controls if a separate .chi index file is generated (YES) or that  
# it should be included in the master .chm file (NO).

GENERATE\_CHI = NO

# If the GENERATE\_HTMLHELP tag is set to YES, the CHM\_INDEX\_ENCODING  
# is used to encode HtmlHelp index (hhk), content (hhc) and project file  
# content.

CHM\_INDEX\_ENCODING =

# If the GENERATE\_HTMLHELP tag is set to YES, the BINARY\_TOC flag  
# controls whether a binary table of contents is generated (YES) or a  
# normal table of contents (NO) in the .chm file.

BINARY\_TOC = NO

# The TOC\_EXPAND flag can be set to YES to add extra items for group members  
# to the contents of the HTML help documentation and to the tree view.

TOC\_EXPAND = NO

# If the GENERATE\_QHP tag is set to YES and both QHP\_NAMESPACE and QHP\_VIRTUAL\_FOLDER  
# are set, an additional index file will be generated that can be used as input for  
# Qt's qhelpgenerator to generate a Qt Compressed Help (.qch) of the generated  
# HTML documentation.

GENERATE\_QHP = NO

# If the QHG\_LOCATION tag is specified, the QCH\_FILE tag can  
# be used to specify the file name of the resulting .qch file.  
# The path specified is relative to the HTML output folder.

QCH\_FILE =

# The QHP\_NAMESPACE tag specifies the namespace to use when generating  
# Qt Help Project output. For more information please see  
# <a href="http://doc.trolltech.com/qthelpproject.html#namespace">Qt Help Project / Namespace</a>.

QHP\_NAMESPACE = org.doxygen.Project

# The QHP\_VIRTUAL\_FOLDER tag specifies the namespace to use when generating  
# Qt Help Project output. For more information please see  
# <a href="http://doc.trolltech.com/qthelpproject.html#virtual-folders">Qt Help Project / Virtual Folders</a>.



QHP\_VIRTUAL\_FOLDER = doc

# If the GENERATE\_QHP tag is set to YES, the QHG\_LOCATION tag can  
# be used to specify the location of Qt's qhelpgenerator.  
# If non-empty doxygen will try to run qhelpgenerator on the generated  
# .qhp file .

QHG\_LOCATION =

# The DISABLE\_INDEX tag can be used to turn on/off the condensed index at  
# top of each HTML page. The value NO (the default) enables the index and  
# the value YES disables it.

DISABLE\_INDEX = NO

# This tag can be used to set the number of enum values (range [1..20])  
# that doxygen will group on one line in the generated HTML documentation.

ENUM\_VALUES\_PER\_LINE = 4

# The GENERATE\_TREEVIEW tag is used to specify whether a tree-like index  
# structure should be generated to display hierarchical information.  
# If the tag value is set to FRAME, a side panel will be generated  
# containing a tree-like index structure (just like the one that  
# is generated for HTML Help). For this to work a browser that supports  
# JavaScript, DHTML, CSS and frames is required (for instance Mozilla 1.0+,  
# Netscape 6.0+, Internet explorer 5.0+, or Konqueror). Windows users are  
# probably better off using the HTML help feature. Other possible values  
# for this tag are: HIERARCHIES, which will generate the Groups, Directories,  
# and Class Hierarchy pages using a tree view instead of an ordered list;  
# ALL, which combines the behavior of FRAME and HIERARCHIES; and NONE, which  
# disables this behavior completely. For backwards compatibility with previous  
# releases of Doxygen, the values YES and NO are equivalent to FRAME and NONE  
# respectively.

GENERATE\_TREEVIEW = NONE

# If the treeview is enabled (see GENERATE\_TREEVIEW) then this tag can be  
# used to set the initial width (in pixels) of the frame in which the tree  
# is shown.

TREEVIEW\_WIDTH = 250

# Use this tag to change the font size of Latex formulas included  
# as images in the HTML documentation. The default is 10. Note that  
# when you change the font size after a successful doxygen run you need  
# to manually remove any form\_\*.png images from the HTML output directory  
# to force them to be regenerated.

FORMULA\_FONTSIZE = 10

#-----  
# configuration options related to the LaTeX output  
#-----

# If the GENERATE\_LATEX tag is set to YES (the default) Doxygen will  
# generate Latex output.

GENERATE\_LATEX = NO

# The LATEX\_OUTPUT tag is used to specify where the LaTeX docs will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank 'latex' will be used as the default path.

LATEX\_OUTPUT = latex

# The LATEX\_CMD\_NAME tag can be used to specify the LaTeX command name to be  
# invoked. If left blank 'latex' will be used as the default command name.

LATEX\_CMD\_NAME = latex

# The MAKEINDEX\_CMD\_NAME tag can be used to specify the command name to  
# generate index for LaTeX. If left blank 'makeindex' will be used as the  
# default command name.

MAKEINDEX\_CMD\_NAME = makeindex

# If the COMPACT\_LATEX tag is set to YES Doxygen generates more compact  
# LaTeX documents. This may be useful for small projects and may help to  
# save some trees in general.

COMPACT\_LATEX = NO

# The PAPER\_TYPE tag can be used to set the paper type that is used  
# by the printer. Possible values are: a4, a4wide, letter, legal and  
# executive. If left blank a4wide will be used.

PAPER\_TYPE = a4wide

# The EXTRA\_PACKAGES tag can be to specify one or more names of LaTeX  
# packages that should be included in the LaTeX output.

EXTRA\_PACKAGES =

# The LATEX\_HEADER tag can be used to specify a personal LaTeX header for  
# the generated latex document. The header should contain everything until

# the first chapter. If it is left blank doxygen will generate a  
# standard header. Notice: only use this tag if you know what you are doing!

LATEX\_HEADER =

# If the PDF\_HYPERLINKS tag is set to YES, the LaTeX that is generated  
# is prepared for conversion to pdf (using ps2pdf). The pdf file will  
# contain links (just like the HTML output) instead of page references  
# This makes the output suitable for online browsing using a pdf viewer.

PDF\_HYPERLINKS = YES

# If the USE\_PDFLATEX tag is set to YES, pdflatex will be used instead of  
# plain latex in the generated Makefile. Set this option to YES to get a  
# higher quality PDF documentation.

USE\_PDFLATEX = YES

# If the LATEX\_BATCHMODE tag is set to YES, doxygen will add the \batchmode.  
# command to the generated LaTeX files. This will instruct LaTeX to keep  
# running if errors occur, instead of asking the user for help.  
# This option is also used when generating formulas in HTML.

LATEX\_BATCHMODE = NO

# If LATEX\_HIDE\_INDICES is set to YES then doxygen will not  
# include the index chapters (such as File Index, Compound Index, etc.)  
# in the output.

LATEX\_HIDE\_INDICES = NO

#-----  
# configuration options related to the RTF output  
#-----

# If the GENERATE\_RTF tag is set to YES Doxygen will generate RTF output  
# The RTF output is optimized for Word 97 and may not look very pretty with  
# other RTF readers or editors.

GENERATE\_RTF = YES

# The RTF\_OUTPUT tag is used to specify where the RTF docs will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank `rtf' will be used as the default path.

RTF\_OUTPUT = rtf

# If the COMPACT\_RTF tag is set to YES Doxygen generates more compact

# RTF documents. This may be useful for small projects and may help to  
# save some trees in general.

COMPACT\_RTF = NO

# If the RTF\_HYPERLINKS tag is set to YES, the RTF that is generated  
# will contain hyperlink fields. The RTF file will  
# contain links (just like the HTML output) instead of page references.  
# This makes the output suitable for online browsing using WORD or other  
# programs which support those fields.  
# Note: wordpad (write) and others do not support links.

RTF\_HYPERLINKS = NO

# Load stylesheet definitions from file. Syntax is similar to doxygen's  
# config file, i.e. a series of assignments. You only have to provide  
# replacements, missing definitions are set to their default value.

RTF\_STYLESHEET\_FILE =

# Set optional variables used in the generation of an rtf document.  
# Syntax is similar to doxygen's config file.

RTF\_EXTENSIONS\_FILE =

#-----  
# configuration options related to the man page output  
#-----

# If the GENERATE\_MAN tag is set to YES (the default) Doxygen will  
# generate man pages

GENERATE\_MAN = NO

# The MAN\_OUTPUT tag is used to specify where the man pages will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank 'man' will be used as the default path.

MAN\_OUTPUT = man

# The MAN\_EXTENSION tag determines the extension that is added to  
# the generated man pages (default is the subroutine's section .3)

MAN\_EXTENSION = .3

# If the MAN\_LINKS tag is set to YES and Doxygen generates man output,  
# then it will generate one additional man file for each entity  
# documented in the real man page(s). These additional files

# only source the real man page, but without them the man command  
# would be unable to find the correct page. The default is NO.

MAN\_LINKS = NO

#-----  
# configuration options related to the XML output  
#-----

# If the GENERATE\_XML tag is set to YES Doxygen will  
# generate an XML file that captures the structure of  
# the code including all documentation.

GENERATE\_XML = YES

# The XML\_OUTPUT tag is used to specify where the XML pages will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank `xml' will be used as the default path.

XML\_OUTPUT = xml

# The XML\_SCHEMA tag can be used to specify an XML schema,  
# which can be used by a validating XML parser to check the  
# syntax of the XML files.

XML\_SCHEMA =

# The XML\_DTD tag can be used to specify an XML DTD,  
# which can be used by a validating XML parser to check the  
# syntax of the XML files.

XML\_DTD =

# If the XML\_PROGRAMLISTING tag is set to YES Doxygen will  
# dump the program listings (including syntax highlighting  
# and cross-referencing information) to the XML output. Note that  
# enabling this will significantly increase the size of the XML output.

XML\_PROGRAMLISTING = YES

#-----  
# configuration options for the AutoGen Definitions output  
#-----

# If the GENERATE\_AUTOGEN\_DEF tag is set to YES Doxygen will  
# generate an AutoGen Definitions (see autogen.sf.net) file  
# that captures the structure of the code including all  
# documentation. Note that this feature is still experimental

# and incomplete at the moment.

GENERATE\_AUTOGEN\_DEF = NO

#-----

# configuration options related to the Perl module output

#-----

# If the GENERATE\_PERLMOD tag is set to YES Doxygen will  
# generate a Perl module file that captures the structure of  
# the code including all documentation. Note that this  
# feature is still experimental and incomplete at the  
# moment.

GENERATE\_PERLMOD = NO

# If the PERLMOD\_LATEX tag is set to YES Doxygen will generate  
# the necessary Makefile rules, Perl scripts and LaTeX code to be able  
# to generate PDF and DVI output from the Perl module output.

PERLMOD\_LATEX = NO

# If the PERLMOD\_PRETTY tag is set to YES the Perl module output will be  
# nicely formatted so it can be parsed by a human reader. This is useful  
# if you want to understand what is going on. On the other hand, if this  
# tag is set to NO the size of the Perl module output will be much smaller  
# and Perl will parse it just the same.

PERLMOD\_PRETTY = YES

# The names of the make variables in the generated doxyrules.make file  
# are prefixed with the string contained in PERLMOD\_MAKEVAR\_PREFIX.  
# This is useful so different doxyrules.make files included by the same  
# Makefile don't overwrite each other's variables.

PERLMOD\_MAKEVAR\_PREFIX =

#-----

# Configuration options related to the preprocessor

#-----

# If the ENABLE\_PREPROCESSING tag is set to YES (the default) Doxygen will  
# evaluate all C-preprocessor directives found in the sources and include  
# files.

ENABLE\_PREPROCESSING = YES

# If the MACRO\_EXPANSION tag is set to YES Doxygen will expand all macro

# names in the source code. If set to NO (the default) only conditional  
# compilation will be performed. Macro expansion can be done in a controlled  
# way by setting EXPAND\_ONLY\_PREDEF to YES.

MACRO\_EXPANSION = YES

# If the EXPAND\_ONLY\_PREDEF and MACRO\_EXPANSION tags are both set to YES  
# then the macro expansion is limited to the macros specified with the  
# PREDEFINED and EXPAND\_AS\_DEFINED tags.

EXPAND\_ONLY\_PREDEF = YES

# If the SEARCH\_INCLUDES tag is set to YES (the default) the includes files  
# in the INCLUDE\_PATH (see below) will be search if a #include is found.

SEARCH\_INCLUDES = YES

# The INCLUDE\_PATH tag can be used to specify one or more directories that  
# contain include files that are not input files but should be processed by  
# the preprocessor.

INCLUDE\_PATH =

# You can use the INCLUDE\_FILE\_PATTERNS tag to specify one or more wildcard  
# patterns (like \*.h and \*.hpp) to filter out the header-files in the  
# directories. If left blank, the patterns specified with FILE\_PATTERNS will  
# be used.

INCLUDE\_FILE\_PATTERNS =

# The PREDEFINED tag can be used to specify one or more macro names that  
# are defined before the preprocessor is started (similar to the -D option of  
# gcc). The argument of the tag is a list of macros of the form: name  
# or name=definition (no spaces). If the definition and the = are  
# omitted =1 is assumed. To prevent a macro definition from being  
# undefined via #undef or recursively expanded use the := operator  
# instead of the = operator.

PREDEFINED = INCLUDE\_XGXS\_TEMOD PHYMOD\_DEBUG\_ERROR  
PHYMOD\_DEBUG\_VERBOSE PHYMOD\_USLEEP PHYMOD\_SLEEP PHYMOD\_MALLOC  
PHYMOD\_FREE PHYMOD\_MEMSET PHYMOD\_MEMCPY PHYMOD\_STRCMP

# If the MACRO\_EXPANSION and EXPAND\_ONLY\_PREDEF tags are set to YES then  
# this tag can be used to specify a list of macro names that should be expanded.  
# The macro definition that is found in the sources will be used.  
# Use the PREDEFINED tag if you want to use a different macro definition.

EXPAND\_AS\_DEFINED =

# If the SKIP\_FUNCTION\_MACROS tag is set to YES (the default) then  
# doxygen's preprocessor will remove all function-like macros that are alone  
# on a line, have an all uppercase name, and do not end with a semicolon. Such  
# function macros are typically used for boiler-plate code, and will confuse  
# the parser if not removed.

SKIP\_FUNCTION\_MACROS = YES

#-----  
# Configuration::additions related to external references  
#-----

# The TAGFILES option can be used to specify one or more tagfiles.  
# Optionally an initial location of the external documentation  
# can be added for each tagfile. The format of a tag file without  
# this location is as follows:  
# TAGFILES = file1 file2 ...  
# Adding location for the tag files is done as follows:  
# TAGFILES = file1=loc1 "file2 = loc2" ...  
# where "loc1" and "loc2" can be relative or absolute paths or  
# URLs. If a location is present for each tag, the installdox tool  
# does not have to be run to correct the links.  
# Note that each tag file must have a unique name  
# (where the name does NOT include the path)  
# If a tag file is not located in the directory in which doxygen  
# is run, you must also specify the path to the tagfile here.

TAGFILES =

# When a file name is specified after GENERATE\_TAGFILE, doxygen will create  
# a tag file that is based on the input files it reads.

GENERATE\_TAGFILE =

# If the ALLEXTERNALS tag is set to YES all external classes will be listed  
# in the class index. If set to NO only the inherited external classes  
# will be listed.

ALLEXTERNALS = NO

# If the EXTERNAL\_GROUPS tag is set to YES all external groups will be listed  
# in the modules index. If set to NO, only the current project's groups will  
# be listed.

EXTERNAL\_GROUPS = YES

# The PERL\_PATH should be the absolute path and name of the perl script



# interpreter (i.e. the result of `which perl').

PERL\_PATH = /usr/bin/perl

#-----

# Configuration options related to the dot tool

#-----

# If the CLASS\_DIAGRAMS tag is set to YES (the default) Doxygen will  
# generate a inheritance diagram (in HTML, RTF and LaTeX) for classes with base  
# or super classes. Setting the tag to NO turns the diagrams off. Note that  
# this option is superseded by the HAVE\_DOT option below. This is only a  
# fallback. It is recommended to install and use dot, since it yields more  
# powerful graphs.

CLASS\_DIAGRAMS = YES

# You can define message sequence charts within doxygen comments using the \msc  
# command. Doxygen will then run the mscgen tool (see  
# <http://www.mcternan.me.uk/mscgen/>) to produce the chart and insert it in the  
# documentation. The MSCGEN\_PATH tag allows you to specify the directory where  
# the mscgen tool resides. If left empty the tool is assumed to be found in the  
# default search path.

MSCGEN\_PATH =

# If set to YES, the inheritance and collaboration graphs will hide  
# inheritance and usage relations if the target is undocumented  
# or is not a class.

HIDE\_UNDOC\_RELATIONS = YES

# If you set the HAVE\_DOT tag to YES then doxygen will assume the dot tool is  
# available from the path. This tool is part of Graphviz, a graph visualization  
# toolkit from AT&T and Lucent Bell Labs. The other options in this section  
# have no effect if this option is set to NO (the default)

HAVE\_DOT = YES

# By default doxygen will write a font called FreeSans.ttf to the output  
# directory and reference it in all dot files that doxygen generates. This  
# font does not include all possible unicode characters however, so when you need  
# these (or just want a differently looking font) you can specify the font name  
# using DOT\_FONTNAME. You need need to make sure dot is able to find the font,  
# which can be done by putting it in a standard location or by setting the  
# DOTFONTPATH environment variable or by setting DOT\_FONTPATH to the directory  
# containing the font.

DOT\_FONTNAME = FreeSans

# By default doxygen will tell dot to use the output directory to look for the  
# FreeSans.ttf font (which doxygen will put there itself). If you specify a  
# different font using DOT\_FONTNAME you can set the path where dot  
# can find it using this tag.

DOT\_FONTPATH =

# If the CLASS\_GRAPH and HAVE\_DOT tags are set to YES then doxygen  
# will generate a graph for each documented class showing the direct and  
# indirect inheritance relations. Setting this tag to YES will force the  
# the CLASS\_DIAGRAMS tag to NO.

CLASS\_GRAPH = YES

# If the COLLABORATION\_GRAPH and HAVE\_DOT tags are set to YES then doxygen  
# will generate a graph for each documented class showing the direct and  
# indirect implementation dependencies (inheritance, containment, and  
# class references variables) of the class with other documented classes.

COLLABORATION\_GRAPH = YES

# If the GROUP\_GRAPHS and HAVE\_DOT tags are set to YES then doxygen  
# will generate a graph for groups, showing the direct groups dependencies

GROUP\_GRAPHS = YES

# If the UML\_LOOK tag is set to YES doxygen will generate inheritance and  
# collaboration diagrams in a style similar to the OMG's Unified Modeling  
# Language.

UML\_LOOK = NO

# If set to YES, the inheritance and collaboration graphs will show the  
# relations between templates and their instances.

TEMPLATE\_RELATIONS = NO

# If the ENABLE\_PREPROCESSING, SEARCH\_INCLUDES, INCLUDE\_GRAPH, and HAVE\_DOT  
# tags are set to YES then doxygen will generate a graph for each documented  
# file showing the direct and indirect include dependencies of the file with  
# other documented files.

INCLUDE\_GRAPH = YES

# If the ENABLE\_PREPROCESSING, SEARCH\_INCLUDES, INCLUDED\_BY\_GRAPH, and  
# HAVE\_DOT tags are set to YES then doxygen will generate a graph for each

# documented header file showing the documented files that directly or  
# indirectly include this file.

INCLUDED\_BY\_GRAPH = YES

# If the CALL\_GRAPH and HAVE\_DOT options are set to YES then  
# doxygen will generate a call dependency graph for every global function  
# or class method. Note that enabling this option will significantly increase  
# the time of a run. So in most cases it will be better to enable call graphs  
# for selected functions only using the \callgraph command.

CALL\_GRAPH = NO

# If the CALLER\_GRAPH and HAVE\_DOT tags are set to YES then  
# doxygen will generate a caller dependency graph for every global function  
# or class method. Note that enabling this option will significantly increase  
# the time of a run. So in most cases it will be better to enable caller  
# graphs for selected functions only using the \callergraph command.

CALLER\_GRAPH = NO

# If the GRAPHICAL\_HIERARCHY and HAVE\_DOT tags are set to YES then doxygen  
# will graphical hierarchy of all classes instead of a textual one.

GRAPHICAL\_HIERARCHY = YES

# If the DIRECTORY\_GRAPH, SHOW\_DIRECTORIES and HAVE\_DOT tags are set to YES  
# then doxygen will show the dependencies a directory has on other directories  
# in a graphical way. The dependency relations are determined by the #include  
# relations between the files in the directories.

DIRECTORY\_GRAPH = YES

# The DOT\_IMAGE\_FORMAT tag can be used to set the image format of the images  
# generated by dot. Possible values are png, jpg, or gif  
# If left blank png will be used.

DOT\_IMAGE\_FORMAT = png

# The tag DOT\_PATH can be used to specify the path where the dot tool can be  
# found. If left blank, it is assumed the dot tool can be found in the path.

DOT\_PATH =

# The DOTFILE\_DIRS tag can be used to specify one or more directories that  
# contain dot files that are included in the documentation (see the  
# \dotfile command).

`DOTFILE_DIRS` =

# The `DOT_GRAPH_MAX_NODES` tag can be used to set the maximum number of  
# nodes that will be shown in the graph. If the number of nodes in a graph  
# becomes larger than this value, doxygen will truncate the graph, which is  
# visualized by representing a node as a red box. Note that doxygen if the  
# number of direct children of the root node in a graph is already larger than  
# `DOT_GRAPH_MAX_NODES` then the graph will not be shown at all. Also note  
# that the size of a graph can be further restricted by `MAX_DOT_GRAPH_DEPTH`.

`DOT_GRAPH_MAX_NODES` = 50

# The `MAX_DOT_GRAPH_DEPTH` tag can be used to set the maximum depth of the  
# graphs generated by dot. A depth value of 3 means that only nodes reachable  
# from the root by following a path via at most 3 edges will be shown. Nodes  
# that lay further from the root node will be omitted. Note that setting this  
# option to 1 or 2 may greatly reduce the computation time needed for large  
# code bases. Also note that the size of a graph can be further restricted by  
# `DOT_GRAPH_MAX_NODES`. Using a depth of 0 means no depth restriction.

`MAX_DOT_GRAPH_DEPTH` = 0

# Set the `DOT_TRANSPARENT` tag to YES to generate images with a transparent  
# background. This is disabled by default, because dot on Windows does not  
# seem to support this out of the box. Warning: Depending on the platform used,  
# enabling this option may lead to badly anti-aliased labels on the edges of  
# a graph (i.e. they become hard to read).

`DOT_TRANSPARENT` = NO

# Set the `DOT_MULTI_TARGETS` tag to YES allow dot to generate multiple output  
# files in one run (i.e. multiple `-o` and `-T` options on the command line). This  
# makes dot run faster, but since only newer versions of dot (>1.8.10)  
# support this, this feature is disabled by default.

`DOT_MULTI_TARGETS` = NO

# If the `GENERATE_LEGEND` tag is set to YES (the default) Doxygen will  
# generate a legend page explaining the meaning of the various boxes and  
# arrows in the dot generated graphs.

`GENERATE_LEGEND` = YES

# If the `DOT_CLEANUP` tag is set to YES (the default) Doxygen will  
# remove the intermediate dot files that are used to generate  
# the various graphs.

`DOT_CLEANUP` = YES

```
#-----  
# Configuration::additions related to the search engine  
#-----
```

# The SEARCHENGINE tag specifies whether or not a search engine should be used. If set to NO the values of all tags below this one will be ignored.

SEARCHENGINE = NO

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/doc/Doxyfile  
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*/
```

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\*

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/bsl.h

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/doc/Makefile

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*****/

```

Found in path(s):

```

* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/Log/incl/log.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/common/adapter_sl
eep.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/common/adapter_sl
eep.c
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/Log/src/log.c
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/common/adapter_in
it.h

```

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/legacy.h

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- \*
- \* File: chip.h
- \* Purpose: Defines for chip types, etc.
- \* Requires: soctypes.h, memory, register and feature defs.
- \*
- \* System on Chip (SOC) basic structures and typedefs
- \* Each chip consists of a number of blocks. Each block can be
- \* a port interface controller (PIC) that contains ports.
- \* The mcm/bcm\*.i files contain definitions of each block and port
- \* in the associated chip. The structures used in those files
- \* are defined here. They are used to build internal use data
- \* structures defined in soc/drv.h
- \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/chip.h  
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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/core/phymod\_enums.c  
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\*

\* this header file defines types used in driver services.

\*/

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- \$Id\$
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- \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
- gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_plp\_base\_t\_sec/bcm\_plp\_base\_t\_secy\_api.c
- \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
- gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/phy542xx\_sdk.c
- \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
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- \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
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\*

\* socregs.c is missing some information about tables, including the

\* minimum and maximum indices, a user-friendly names for the tables,

\* and table descriptions. socmem\_info\_t is a parallel structure

\* indexed by soc\_mem\_t that contains this information.

\*

\* CBP memory consists of the tables MMU\_MEMORIES1\_xx, which are of

\* varying lengths and widths, and the transaction queue memories

\* MMU\_MEMORIES2\_xx.

\*/

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

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\*

\* File: time.h

\* Purpose: SAL time definitions

\*

\* Microsecond Time Routines

\*

\* The main clock abstraction is sal\_usecs\_t, an unsigned 32-bit

\* counter that increments every microsecond and wraps around every

\* 4294.967296 seconds (~71.5 minutes)

\*/

Found in path(s):

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

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# \$Id\$

# This file describes the settings to be used by the documentation system

# doxygen (www.doxygen.org) for a project

#

# All text after a hash (#) is considered a comment and will be ignored

# The format is:

# TAG = value [value, ...]

# For lists items can also be appended using:

# TAG += value [value, ...]

# Values that contain spaces should be placed between quotes (" ")

#-----

# Project related configuration options

#-----

# This tag specifies the encoding used for all characters in the config file

# that follow. The default is UTF-8 which is also the encoding used for all

# text before the first occurrence of this tag. Doxygen uses libiconv (or the

# iconv built into libc) for the transcoding. See

# <http://www.gnu.org/software/libiconv> for the list of possible encodings.

DOXYFILE\_ENCODING = UTF-8

# The PROJECT\_NAME tag is a single word (or a sequence of words surrounded

# by quotes) that should identify the project.

PROJECT\_NAME = PHY\_SW

# The PROJECT\_NUMBER tag can be used to enter a project or revision number.

# This could be handy for archiving the generated documentation or

# if some version control system is used.

PROJECT\_NUMBER =

# The OUTPUT\_DIRECTORY tag is used to specify the (relative or absolute)  
# base path where the generated documentation will be put.  
# If a relative path is entered, it will be relative to the location  
# where doxygen was started. If left blank the current directory will be used.

OUTPUT\_DIRECTORY = .

# If the CREATE\_SUBDIRS tag is set to YES, then doxygen will create  
# 4096 sub-directories (in 2 levels) under the output directory of each output  
# format and will distribute the generated files over these directories.  
# Enabling this option can be useful when feeding doxygen a huge amount of  
# source files, where putting all generated files in the same directory would  
# otherwise cause performance problems for the file system.

CREATE\_SUBDIRS = NO

# The OUTPUT\_LANGUAGE tag is used to specify the language in which all  
# documentation generated by doxygen is written. Doxygen will use this  
# information to generate all constant output in the proper language.  
# The default language is English, other supported languages are:  
# Afrikaans, Arabic, Brazilian, Catalan, Chinese, Chinese-Traditional,  
# Croatian, Czech, Danish, Dutch, Farsi, Finnish, French, German, Greek,  
# Hungarian, Italian, Japanese, Japanese-en (Japanese with English messages),  
# Korean, Korean-en, Lithuanian, Norwegian, Macedonian, Persian, Polish,  
# Portuguese, Romanian, Russian, Serbian, Serbian-Cyrilic, Slovak, Slovene,  
# Spanish, Swedish, and Ukrainian.

OUTPUT\_LANGUAGE = English

# If the BRIEF\_MEMBER\_DESC tag is set to YES (the default) Doxygen will  
# include brief member descriptions after the members that are listed in  
# the file and class documentation (similar to JavaDoc).  
# Set to NO to disable this.

BRIEF\_MEMBER\_DESC = NO

# If the REPEAT\_BRIEF tag is set to YES (the default) Doxygen will prepend  
# the brief description of a member or function before the detailed description.  
# Note: if both HIDE\_UNDOC\_MEMBERS and BRIEF\_MEMBER\_DESC are set to NO, the  
# brief descriptions will be completely suppressed.

REPEAT\_BRIEF = NO

# This tag implements a quasi-intelligent brief description abbreviator  
# that is used to form the text in various listings. Each string  
# in this list, if found as the leading text of the brief description, will be  
# stripped from the text and the result after processing the whole list, is  
# used as the annotated text. Otherwise, the brief description is used as-is.

# If left blank, the following values are used (" \$name" is automatically  
# replaced with the name of the entity): "The \$name class" "The \$name widget"  
# "The \$name file" "is" "provides" "specifies" "contains"  
# "represents" "a" "an" "the"

ABBREVIATE\_BRIEF =

# If the ALWAYS\_DETAILED\_SEC and REPEAT\_BRIEF tags are both set to YES then  
# Doxygen will generate a detailed section even if there is only a brief  
# description.

ALWAYS\_DETAILED\_SEC = NO

# If the INLINE\_INHERITED\_MEMB tag is set to YES, doxygen will show all  
# inherited members of a class in the documentation of that class as if those  
# members were ordinary class members. Constructors, destructors and assignment  
# operators of the base classes will not be shown.

INLINE\_INHERITED\_MEMB = NO

# If the FULL\_PATH\_NAMES tag is set to YES then Doxygen will prepend the full  
# path before files name in the file list and in the header files. If set  
# to NO the shortest path that makes the file name unique will be used.

FULL\_PATH\_NAMES = YES

# If the FULL\_PATH\_NAMES tag is set to YES then the STRIP\_FROM\_PATH tag  
# can be used to strip a user-defined part of the path. Stripping is  
# only done if one of the specified strings matches the left-hand part of  
# the path. The tag can be used to show relative paths in the file list.  
# If left blank the directory from which doxygen is run is used as the  
# path to strip.

STRIP\_FROM\_PATH =

# The STRIP\_FROM\_INC\_PATH tag can be used to strip a user-defined part of  
# the path mentioned in the documentation of a class, which tells  
# the reader which header file to include in order to use a class.  
# If left blank only the name of the header file containing the class  
# definition is used. Otherwise one should specify the include paths that  
# are normally passed to the compiler using the -I flag.

STRIP\_FROM\_INC\_PATH =

# If the SHORT\_NAMES tag is set to YES, doxygen will generate much shorter  
# (but less readable) file names. This can be useful if your file systems  
# doesn't support long names like on DOS, Mac, or CD-ROM.

SHORT\_NAMES = NO

# If the JAVADOC\_AUTOBRIEF tag is set to YES then Doxygen  
# will interpret the first line (until the first dot) of a JavaDoc-style  
# comment as the brief description. If set to NO, the JavaDoc  
# comments will behave just like regular Qt-style comments  
# (thus requiring an explicit @brief command for a brief description.)

JAVADOC\_AUTOBRIEF = NO

# If the QT\_AUTOBRIEF tag is set to YES then Doxygen will  
# interpret the first line (until the first dot) of a Qt-style  
# comment as the brief description. If set to NO, the comments  
# will behave just like regular Qt-style comments (thus requiring  
# an explicit \brief command for a brief description.)

QT\_AUTOBRIEF = NO

# The MULTILINE\_CPP\_IS\_BRIEF tag can be set to YES to make Doxygen  
# treat a multi-line C++ special comment block (i.e. a block of `///  
//`  
# comments) as a brief description. This used to be the default behaviour.  
# The new default is to treat a multi-line C++ comment block as a detailed  
# description. Set this tag to YES if you prefer the old behaviour instead.

MULTILINE\_CPP\_IS\_BRIEF = NO

# If the INHERIT\_DOCS tag is set to YES (the default) then an undocumented  
# member inherits the documentation from any documented member that it  
# re-implements.

INHERIT\_DOCS = YES

# If the SEPARATE\_MEMBER\_PAGES tag is set to YES, then doxygen will produce  
# a new page for each member. If set to NO, the documentation of a member will  
# be part of the file/class/namespace that contains it.

SEPARATE\_MEMBER\_PAGES = NO

# The TAB\_SIZE tag can be used to set the number of spaces in a tab.  
# Doxygen uses this value to replace tabs by spaces in code fragments.

TAB\_SIZE = 8

# This tag can be used to specify a number of aliases that acts  
# as commands in the documentation. An alias has the form "name=value".  
# For example adding "sideeffect=\par Side Effects:\n" will allow you to  
# put the command \sideeffect (or @sideeffect) in the documentation, which  
# will result in a user-defined paragraph with heading "Side Effects:".

# You can put \n's in the value part of an alias to insert newlines.

ALIASES =

# Set the OPTIMIZE\_OUTPUT\_FOR\_C tag to YES if your project consists of C  
# sources only. Doxygen will then generate output that is more tailored for C.  
# For instance, some of the names that are used will be different. The list  
# of all members will be omitted, etc.

OPTIMIZE\_OUTPUT\_FOR\_C = NO

# Set the OPTIMIZE\_OUTPUT\_JAVA tag to YES if your project consists of Java  
# sources only. Doxygen will then generate output that is more tailored for  
# Java. For instance, namespaces will be presented as packages, qualified  
# scopes will look different, etc.

OPTIMIZE\_OUTPUT\_JAVA = NO

# Set the OPTIMIZE\_FOR\_FORTRAN tag to YES if your project consists of Fortran  
# sources only. Doxygen will then generate output that is more tailored for  
# Fortran.

OPTIMIZE\_FOR\_FORTRAN = NO

# Set the OPTIMIZE\_OUTPUT\_VHDL tag to YES if your project consists of VHDL  
# sources. Doxygen will then generate output that is tailored for  
# VHDL.

OPTIMIZE\_OUTPUT\_VHDL = NO

# If you use STL classes (i.e. std::string, std::vector, etc.) but do not want  
# to include (a tag file for) the STL sources as input, then you should  
# set this tag to YES in order to let doxygen match functions declarations and  
# definitions whose arguments contain STL classes (e.g. func(std::string); v.s.  
# func(std::string) {}). This also make the inheritance and collaboration  
# diagrams that involve STL classes more complete and accurate.

BUILTIN\_STL\_SUPPORT = NO

# If you use Microsoft's C++/CLI language, you should set this option to YES to  
# enable parsing support.

CPP\_CLI\_SUPPORT = NO

# Set the SIP\_SUPPORT tag to YES if your project consists of sip sources only.  
# Doxygen will parse them like normal C++ but will assume all classes use public  
# instead of private inheritance when no explicit protection keyword is present.

SIP\_SUPPORT = NO

# For Microsoft's IDL there are propget and propput attributes to indicate getter  
# and setter methods for a property. Setting this option to YES (the default)  
# will make doxygen to replace the get and set methods by a property in the  
# documentation. This will only work if the methods are indeed getting or  
# setting a simple type. If this is not the case, or you want to show the  
# methods anyway, you should set this option to NO.

IDL\_PROPERTY\_SUPPORT = YES

# If member grouping is used in the documentation and the DISTRIBUTE\_GROUP\_DOC  
# tag is set to YES, then doxygen will reuse the documentation of the first  
# member in the group (if any) for the other members of the group. By default  
# all members of a group must be documented explicitly.

DISTRIBUTE\_GROUP\_DOC = NO

# Set the SUBGROUPING tag to YES (the default) to allow class member groups of  
# the same type (for instance a group of public functions) to be put as a  
# subgroup of that type (e.g. under the Public Functions section). Set it to  
# NO to prevent subgrouping. Alternatively, this can be done per class using  
# the \nosubgrouping command.

SUBGROUPING = YES

# When TYPEDEF\_HIDES\_STRUCT is enabled, a typedef of a struct, union, or enum  
# is documented as struct, union, or enum with the name of the typedef. So  
# typedef struct TypeS { } TypeT, will appear in the documentation as a struct  
# with name TypeT. When disabled the typedef will appear as a member of a file,  
# namespace, or class. And the struct will be named TypeS. This can typically  
# be useful for C code in case the coding convention dictates that all compound  
# types are typedef'ed and only the typedef is referenced, never the tag name.

TYPEDEF\_HIDES\_STRUCT = NO

# The SYMBOL\_CACHE\_SIZE determines the size of the internal cache use to  
# determine which symbols to keep in memory and which to flush to disk.  
# When the cache is full, less often used symbols will be written to disk.  
# For small to medium size projects (<1000 input files) the default value is  
# probably good enough. For larger projects a too small cache size can cause  
# doxygen to be busy swapping symbols to and from disk most of the time  
# causing a significant performance penalty.  
# If the system has enough physical memory increasing the cache will improve the  
# performance by keeping more symbols in memory. Note that the value works on  
# a logarithmic scale so increasing the size by one will roughly double the  
# memory usage. The cache size is given by this formula:  
#  $2^{(16+SYMBOL\_CACHE\_SIZE)}$ . The valid range is 0..9, the default is 0,

# corresponding to a cache size of  $2^{16} = 65536$  symbols

SYMBOL\_CACHE\_SIZE = 0

#-----

# Build related configuration options

#-----

# If the EXTRACT\_ALL tag is set to YES doxygen will assume all entities in  
# documentation are documented, even if no documentation was available.

# Private class members and static file members will be hidden unless

# the EXTRACT\_PRIVATE and EXTRACT\_STATIC tags are set to YES

EXTRACT\_ALL = YES

# If the EXTRACT\_PRIVATE tag is set to YES all private members of a class  
# will be included in the documentation.

EXTRACT\_PRIVATE = NO

# If the EXTRACT\_STATIC tag is set to YES all static members of a file  
# will be included in the documentation.

EXTRACT\_STATIC = NO

# If the EXTRACT\_LOCAL\_CLASSES tag is set to YES classes (and structs)  
# defined locally in source files will be included in the documentation.

# If set to NO only classes defined in header files are included.

EXTRACT\_LOCAL\_CLASSES = YES

# This flag is only useful for Objective-C code. When set to YES local  
# methods, which are defined in the implementation section but not in  
# the interface are included in the documentation.

# If set to NO (the default) only methods in the interface are included.

EXTRACT\_LOCAL\_METHODS = NO

# If this flag is set to YES, the members of anonymous namespaces will be  
# extracted and appear in the documentation as a namespace called  
# 'anonymous\_namespace{file}', where file will be replaced with the base  
# name of the file that contains the anonymous namespace. By default  
# anonymous namespace are hidden.

EXTRACT\_ANON\_NSPACES = NO

# If the HIDE\_UNDOC\_MEMBERS tag is set to YES, Doxygen will hide all  
# undocumented members of documented classes, files or namespaces.



# If set to NO (the default) these members will be included in the  
# various overviews, but no documentation section is generated.  
# This option has no effect if EXTRACT\_ALL is enabled.

HIDE\_UNDOC\_MEMBERS = YES

# If the HIDE\_UNDOC\_CLASSES tag is set to YES, Doxygen will hide all  
# undocumented classes that are normally visible in the class hierarchy.  
# If set to NO (the default) these classes will be included in the various  
# overviews. This option has no effect if EXTRACT\_ALL is enabled.

HIDE\_UNDOC\_CLASSES = YES

# If the HIDE\_FRIEND\_COMPOUNDS tag is set to YES, Doxygen will hide all  
# friend (class|struct|union) declarations.  
# If set to NO (the default) these declarations will be included in the  
# documentation.

HIDE\_FRIEND\_COMPOUNDS = YES

# If the HIDE\_IN\_BODY\_DOCS tag is set to YES, Doxygen will hide any  
# documentation blocks found inside the body of a function.  
# If set to NO (the default) these blocks will be appended to the  
# function's detailed documentation block.

HIDE\_IN\_BODY\_DOCS = YES

# The INTERNAL\_DOCS tag determines if documentation  
# that is typed after a \internal command is included. If the tag is set  
# to NO (the default) then the documentation will be excluded.  
# Set it to YES to include the internal documentation.

INTERNAL\_DOCS = NO

# If the CASE\_SENSE\_NAMES tag is set to NO then Doxygen will only generate  
# file names in lower-case letters. If set to YES upper-case letters are also  
# allowed. This is useful if you have classes or files whose names only differ  
# in case and if your file system supports case sensitive file names. Windows  
# and Mac users are advised to set this option to NO.

CASE\_SENSE\_NAMES = YES

# If the HIDE\_SCOPE\_NAMES tag is set to NO (the default) then Doxygen  
# will show members with their full class and namespace scopes in the  
# documentation. If set to YES the scope will be hidden.

HIDE\_SCOPE\_NAMES = NO

# If the SHOW\_INCLUDE\_FILES tag is set to YES (the default) then Doxygen  
# will put a list of the files that are included by a file in the documentation  
# of that file.

SHOW\_INCLUDE\_FILES = NO

# If the INLINE\_INFO tag is set to YES (the default) then a tag [inline]  
# is inserted in the documentation for inline members.

INLINE\_INFO = YES

# If the SORT\_MEMBER\_DOCS tag is set to YES (the default) then doxygen  
# will sort the (detailed) documentation of file and class members  
# alphabetically by member name. If set to NO the members will appear in  
# declaration order.

SORT\_MEMBER\_DOCS = NO

# If the SORT\_BRIEF\_DOCS tag is set to YES then doxygen will sort the  
# brief documentation of file, namespace and class members alphabetically  
# by member name. If set to NO (the default) the members will appear in  
# declaration order.

SORT\_BRIEF\_DOCS = NO

# If the SORT\_GROUP\_NAMES tag is set to YES then doxygen will sort the  
# hierarchy of group names into alphabetical order. If set to NO (the default)  
# the group names will appear in their defined order.

SORT\_GROUP\_NAMES = NO

# If the SORT\_BY\_SCOPE\_NAME tag is set to YES, the class list will be  
# sorted by fully-qualified names, including namespaces. If set to  
# NO (the default), the class list will be sorted only by class name,  
# not including the namespace part.  
# Note: This option is not very useful if HIDE\_SCOPE\_NAMES is set to YES.  
# Note: This option applies only to the class list, not to the  
# alphabetical list.

SORT\_BY\_SCOPE\_NAME = NO

# The GENERATE\_TODOLIST tag can be used to enable (YES) or  
# disable (NO) the todo list. This list is created by putting \todo  
# commands in the documentation.

GENERATE\_TODOLIST = YES

# The GENERATE\_TESTLIST tag can be used to enable (YES) or

# disable (NO) the test list. This list is created by putting \test  
# commands in the documentation.

GENERATE\_TESTLIST = YES

# The GENERATE\_BUGLIST tag can be used to enable (YES) or  
# disable (NO) the bug list. This list is created by putting \bug  
# commands in the documentation.

GENERATE\_BUGLIST = YES

# The GENERATE\_DEPRECATEDLIST tag can be used to enable (YES) or  
# disable (NO) the deprecated list. This list is created by putting  
# \deprecated commands in the documentation.

GENERATE\_DEPRECATEDLIST= YES

# The ENABLED\_SECTIONS tag can be used to enable conditional  
# documentation sections, marked by \if sectionname ... \endif.

ENABLED\_SECTIONS =

# The MAX\_INITIALIZER\_LINES tag determines the maximum number of lines  
# the initial value of a variable or define consists of for it to appear in  
# the documentation. If the initializer consists of more lines than specified  
# here it will be hidden. Use a value of 0 to hide initializers completely.  
# The appearance of the initializer of individual variables and defines in the  
# documentation can be controlled using \showinitializer or \hideinitializer  
# command in the documentation regardless of this setting.

MAX\_INITIALIZER\_LINES = 30

# Set the SHOW\_USED\_FILES tag to NO to disable the list of files generated  
# at the bottom of the documentation of classes and structs. If set to YES the  
# list will mention the files that were used to generate the documentation.

SHOW\_USED\_FILES = NO

# If the sources in your project are distributed over multiple directories  
# then setting the SHOW\_DIRECTORIES tag to YES will show the directory hierarchy  
# in the documentation. The default is NO.

#SHOW\_DIRECTORIES = NO

# Set the SHOW\_FILES tag to NO to disable the generation of the Files page.  
# This will remove the Files entry from the Quick Index and from the  
# Folder Tree View (if specified). The default is YES.

SHOW\_FILES = YES

# Set the SHOW\_NAMESPACES tag to NO to disable the generation of the  
# Namespaces page. This will remove the Namespaces entry from the Quick Index  
# and from the Folder Tree View (if specified). The default is YES.

SHOW\_NAMESPACES = YES

# The FILE\_VERSION\_FILTER tag can be used to specify a program or script that  
# doxygen should invoke to get the current version for each file (typically from  
# the version control system). Doxygen will invoke the program by executing (via  
# popen()) the command <command> <input-file>, where <command> is the value of  
# the FILE\_VERSION\_FILTER tag, and <input-file> is the name of an input file  
# provided by doxygen. Whatever the program writes to standard output  
# is used as the file version. See the manual for examples.

FILE\_VERSION\_FILTER =

# The LAYOUT\_FILE tag can be used to specify a layout file which will be parsed  
# by doxygen. The layout file controls the global structure of the generated  
# output files in an output format independent way. To create the layout file  
# that represents doxygen's defaults, run doxygen with the -l option. You can  
# optionally specify a file name after the option, if omitted DoxygenLayout.xml  
# will be used as the name of the layout file.

LAYOUT\_FILE =

#-----  
# configuration options related to warning and progress messages  
#-----

# The QUIET tag can be used to turn on/off the messages that are generated  
# by doxygen. Possible values are YES and NO. If left blank NO is used.

QUIET = YES

# The WARNINGS tag can be used to turn on/off the warning messages that are  
# generated by doxygen. Possible values are YES and NO. If left blank  
# NO is used.

WARNINGS = YES

# If WARN\_IF\_UNDOCUMENTED is set to YES, then doxygen will generate warnings  
# for undocumented members. If EXTRACT\_ALL is set to YES then this flag will  
# automatically be disabled.

WARN\_IF\_UNDOCUMENTED = YES

# If WARN\_IF\_DOC\_ERROR is set to YES, doxygen will generate warnings for  
# potential errors in the documentation, such as not documenting some  
# parameters in a documented function, or documenting parameters that  
# don't exist or using markup commands wrongly.

WARN\_IF\_DOC\_ERROR = YES

# This WARN\_NO\_PARAMDOC option can be able to get warnings for  
# functions that are documented, but have no documentation for their parameters  
# or return value. If set to NO (the default) doxygen will only warn about  
# wrong or incomplete parameter documentation, but not about the absence of  
# documentation.

WARN\_NO\_PARAMDOC = NO

# The WARN\_FORMAT tag determines the format of the warning messages that  
# doxygen can produce. The string should contain the \$file, \$line, and \$text  
# tags, which will be replaced by the file and line number from which the  
# warning originated and the warning text. Optionally the format may contain  
# \$version, which will be replaced by the version of the file (if it could  
# be obtained via FILE\_VERSION\_FILTER)

WARN\_FORMAT = "\$file:\$line: \$text"

# The WARN\_LOGFILE tag can be used to specify a file to which warning  
# and error messages should be written. If left blank the output is written  
# to stderr.

WARN\_LOGFILE =

#-----  
# configuration options related to the input files  
#-----

# The INPUT tag can be used to specify the files and/or directories that contain  
# documented source files. You may enter file names like "myfile.cpp" or  
# directories like "/usr/src/myproject". Separate the files or directories  
# with spaces.

INPUT = dox/

# This tag can be used to specify the character encoding of the source files  
# that doxygen parses. Internally doxygen uses the UTF-8 encoding, which is  
# also the default input encoding. Doxygen uses libiconv (or the iconv built  
# into libc) for the transcoding. See <http://www.gnu.org/software/libiconv> for  
# the list of possible encodings.

INPUT\_ENCODING = UTF-8

# If the value of the INPUT tag contains directories, you can use the  
# FILE\_PATTERNS tag to specify one or more wildcard pattern (like \*.cpp  
# and \*.h) to filter out the source-files in the directories. If left  
# blank the following patterns are tested:  
# \*.c \*.cc \*.cxx \*.cpp \*.c++ \*.java \*.ii \*.ixx \*.ipp \*.i++ \*.inl \*.h \*.hh \*.hxx  
# \*.hpp \*.h++ \*.idl \*.odl \*.cs \*.php \*.php3 \*.inc \*.m \*.mm \*.py \*.f90

FILE\_PATTERNS = \*.c \*.h

# The RECURSIVE tag can be used to turn specify whether or not subdirectories  
# should be searched for input files as well. Possible values are YES and NO.  
# If left blank NO is used.

RECURSIVE = NO

# The EXCLUDE tag can be used to specify files and/or directories that should  
# excluded from the INPUT source files. This way you can easily exclude a  
# subdirectory from a directory tree whose root is specified with the INPUT tag.

EXCLUDE =

# The EXCLUDE\_SYMLINKS tag can be used select whether or not files or  
# directories that are symbolic links (a Unix filesystem feature) are excluded  
# from the input.

EXCLUDE\_SYMLINKS = NO

# If the value of the INPUT tag contains directories, you can use the  
# EXCLUDE\_PATTERNS tag to specify one or more wildcard patterns to exclude  
# certain files from those directories. Note that the wildcards are matched  
# against the file with absolute path, so to exclude all test directories  
# for example use the pattern \*/test/\*

EXCLUDE\_PATTERNS =

# The EXCLUDE\_SYMBOLS tag can be used to specify one or more symbol names  
# (namespaces, classes, functions, etc.) that should be excluded from the  
# output. The symbol name can be a fully qualified name, a word, or if the  
# wildcard \* is used, a substring. Examples: ANamespace, AClass,  
# AClass::ANamespace, ANamespace::\*Test

EXCLUDE\_SYMBOLS = clone

# The EXAMPLE\_PATH tag can be used to specify one or more files or  
# directories that contain example code fragments that are included (see  
# the \include command).

EXAMPLE\_PATH =

# If the value of the EXAMPLE\_PATH tag contains directories, you can use the  
# EXAMPLE\_PATTERNS tag to specify one or more wildcard pattern (like \*.cpp  
# and \*.h) to filter out the source-files in the directories. If left  
# blank all files are included.

EXAMPLE\_PATTERNS =

# If the EXAMPLE\_RECURSIVE tag is set to YES then subdirectories will be  
# searched for input files to be used with the \include or \dontinclude  
# commands irrespective of the value of the RECURSIVE tag.  
# Possible values are YES and NO. If left blank NO is used.

EXAMPLE\_RECURSIVE = NO

# The IMAGE\_PATH tag can be used to specify one or more files or  
# directories that contain image that are included in the documentation (see  
# the \image command).

IMAGE\_PATH = .

# The INPUT\_FILTER tag can be used to specify a program that doxygen should  
# invoke to filter for each input file. Doxygen will invoke the filter program  
# by executing (via popen()) the command <filter> <input-file>, where <filter>  
# is the value of the INPUT\_FILTER tag, and <input-file> is the name of an  
# input file. Doxygen will then use the output that the filter program writes  
# to standard output. If FILTER\_PATTERNS is specified, this tag will be  
# ignored.

INPUT\_FILTER =

# The FILTER\_PATTERNS tag can be used to specify filters on a per file pattern  
# basis. Doxygen will compare the file name with each pattern and apply the  
# filter if there is a match. The filters are a list of the form:  
# pattern=filter (like \*.cpp=my\_cpp\_filter). See INPUT\_FILTER for further  
# info on how filters are used. If FILTER\_PATTERNS is empty, INPUT\_FILTER  
# is applied to all files.

FILTER\_PATTERNS =

# If the FILTER\_SOURCE\_FILES tag is set to YES, the input filter (if set using  
# INPUT\_FILTER) will be used to filter the input files when producing source  
# files to browse (i.e. when SOURCE\_BROWSER is set to YES).

FILTER\_SOURCE\_FILES = NO

#-----

# configuration options related to source browsing

#-----

# If the SOURCE\_BROWSER tag is set to YES then a list of source files will  
# be generated. Documented entities will be cross-referenced with these sources.  
# Note: To get rid of all source code in the generated output, make sure also  
# VERBATIM\_HEADERS is set to NO.

SOURCE\_BROWSER = NO

# Setting the INLINE\_SOURCES tag to YES will include the body  
# of functions and classes directly in the documentation.

INLINE\_SOURCES = NO

# Setting the STRIP\_CODE\_COMMENTS tag to YES (the default) will instruct  
# doxygen to hide any special comment blocks from generated source code  
# fragments. Normal C and C++ comments will always remain visible.

STRIP\_CODE\_COMMENTS = YES

# If the REFERENCED\_BY\_RELATION tag is set to YES  
# then for each documented function all documented  
# functions referencing it will be listed.

REFERENCED\_BY\_RELATION = NO

# If the REFERENCES\_RELATION tag is set to YES  
# then for each documented function all documented entities  
# called/used by that function will be listed.

REFERENCES\_RELATION = NO

# If the REFERENCES\_LINK\_SOURCE tag is set to YES (the default)  
# and SOURCE\_BROWSER tag is set to YES, then the hyperlinks from  
# functions in REFERENCES\_RELATION and REFERENCED\_BY\_RELATION lists will  
# link to the source code. Otherwise they will link to the documentstion.

REFERENCES\_LINK\_SOURCE = YES

# If the USE\_HTAGS tag is set to YES then the references to source code  
# will point to the HTML generated by the htags(1) tool instead of doxygen  
# built-in source browser. The htags tool is part of GNU's global source  
# tagging system (see <http://www.gnu.org/software/global/global.html>). You  
# will need version 4.8.6 or higher.

USE\_HTAGS = NO



# If the VERBATIM\_HEADERS tag is set to YES (the default) then Doxygen  
# will generate a verbatim copy of the header file for each class for  
# which an include is specified. Set to NO to disable this.

VERBATIM\_HEADERS = NO

#-----  
# configuration options related to the alphabetical class index  
#-----

# If the alphabetical index is enabled (see ALPHABETICAL\_INDEX) then  
# the COLS\_IN\_ALPHA\_INDEX tag can be used to specify the number of columns  
# in which this list will be split (can be a number in the range [1..20])

COLS\_IN\_ALPHA\_INDEX = 5

# In case all classes in a project start with a common prefix, all  
# classes will be put under the same header in the alphabetical index.  
# The IGNORE\_PREFIX tag can be used to specify one or more prefixes that  
# should be ignored while generating the index headers.

IGNORE\_PREFIX =

#-----  
# configuration options related to the HTML output  
#-----

# If the GENERATE\_HTML tag is set to YES (the default) Doxygen will  
# generate HTML output.

GENERATE\_HTML = YES

# The HTML\_OUTPUT tag is used to specify where the HTML docs will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank 'html' will be used as the default path.

HTML\_OUTPUT = html

# The HTML\_FILE\_EXTENSION tag can be used to specify the file extension for  
# each generated HTML page (for example: .htm,.php,.asp). If it is left blank  
# doxygen will generate files with .html extension.

HTML\_FILE\_EXTENSION = .html

# The HTML\_HEADER tag can be used to specify a personal HTML header for  
# each generated HTML page. If it is left blank doxygen will generate a  
# standard header.

HTML\_HEADER =

# The HTML\_FOOTER tag can be used to specify a personal HTML footer for  
# each generated HTML page. If it is left blank doxygen will generate a  
# standard footer.

HTML\_FOOTER =

# The HTML\_STYLESHEET tag can be used to specify a user-defined cascading  
# style sheet that is used by each HTML page. It can be used to  
# fine-tune the look of the HTML output. If the tag is left blank doxygen  
# will generate a default style sheet. Note that doxygen will try to copy  
# the style sheet file to the HTML output directory, so don't put your own  
# stylesheet in the HTML output directory as well, or it will be erased!

HTML\_STYLESHEET =

# If the HTML\_ALIGN\_MEMBERS tag is set to YES, the members of classes,  
# files or namespaces will be aligned in HTML using tables. If set to  
# NO a bullet list will be used.

#HTML\_ALIGN\_MEMBERS = YES

# If the HTML\_DYNAMIC\_SECTIONS tag is set to YES then the generated HTML  
# documentation will contain sections that can be hidden and shown after the  
# page has loaded. For this to work a browser that supports  
# JavaScript and DHTML is required (for instance Mozilla 1.0+, Firefox  
# Netscape 6.0+, Internet explorer 5.0+, Konqueror, or Safari).

HTML\_DYNAMIC\_SECTIONS = NO

# If the GENERATE\_DOCSET tag is set to YES, additional index files  
# will be generated that can be used as input for Apple's Xcode 3  
# integrated development environment, introduced with OSX 10.5 (Leopard).  
# To create a documentation set, doxygen will generate a Makefile in the  
# HTML output directory. Running make will produce the docset in that  
# directory and running "make install" will install the docset in  
# ~/Library/Developer/Shared/Documentation/DocSets so that Xcode will find  
# it at startup.  
# See <http://developer.apple.com/tools/creatingdocsetswithdoxygen.html> for more information.

GENERATE\_DOCSET = NO

# When GENERATE\_DOCSET tag is set to YES, this tag determines the name of the  
# feed. A documentation feed provides an umbrella under which multiple  
# documentation sets from a single provider (such as a company or product suite)  
# can be grouped.

DOCSET\_FEEDNAME = "Doxygen generated docs"

# When GENERATE\_DOCSET tag is set to YES, this tag specifies a string that  
# should uniquely identify the documentation set bundle. This should be a  
# reverse domain-name style string, e.g. com.mycompany.MyDocSet. Doxygen  
# will append .docset to the name.

DOCSET\_BUNDLE\_ID = org.doxygen.Project

# If the GENERATE\_HTMLHELP tag is set to YES, additional index files  
# will be generated that can be used as input for tools like the  
# Microsoft HTML help workshop to generate a compiled HTML help file (.chm)  
# of the generated HTML documentation.

GENERATE\_HTMLHELP = yes

# If the GENERATE\_HTMLHELP tag is set to YES, the CHM\_FILE tag can  
# be used to specify the file name of the resulting .chm file. You  
# can add a path in front of the file if the result should not be  
# written to the html output directory.

CHM\_FILE = "PHYMOD.chm"

# If the GENERATE\_HTMLHELP tag is set to YES, the HHC\_LOCATION tag can  
# be used to specify the location (absolute path including file name) of  
# the HTML help compiler (hhc.exe). If non-empty doxygen will try to run  
# the HTML help compiler on the generated index.hhp.

HHC\_LOCATION =

# If the GENERATE\_HTMLHELP tag is set to YES, the GENERATE\_CHI flag  
# controls if a separate .chi index file is generated (YES) or that  
# it should be included in the master .chm file (NO).

GENERATE\_CHI = NO

# If the GENERATE\_HTMLHELP tag is set to YES, the CHM\_INDEX\_ENCODING  
# is used to encode HtmlHelp index (hhk), content (hhc) and project file  
# content.

CHM\_INDEX\_ENCODING =

# If the GENERATE\_HTMLHELP tag is set to YES, the BINARY\_TOC flag  
# controls whether a binary table of contents is generated (YES) or a  
# normal table of contents (NO) in the .chm file.

BINARY\_TOC = NO

# The TOC\_EXPAND flag can be set to YES to add extra items for group members  
# to the contents of the HTML help documentation and to the tree view.

TOC\_EXPAND = NO

# If the GENERATE\_QHP tag is set to YES and both QHP\_NAMESPACE and QHP\_VIRTUAL\_FOLDER  
# are set, an additional index file will be generated that can be used as input for  
# Qt's qhelpgenerator to generate a Qt Compressed Help (.qch) of the generated  
# HTML documentation.

GENERATE\_QHP = NO

# If the QHG\_LOCATION tag is specified, the QCH\_FILE tag can  
# be used to specify the file name of the resulting .qch file.  
# The path specified is relative to the HTML output folder.

QCH\_FILE =

# The QHP\_NAMESPACE tag specifies the namespace to use when generating  
# Qt Help Project output. For more information please see  
# [Qt Help Project / Namespace](http://doc.trolltech.com/qthelpproject.html#namespace).

QHP\_NAMESPACE = org.doxygen.Project

# The QHP\_VIRTUAL\_FOLDER tag specifies the namespace to use when generating  
# Qt Help Project output. For more information please see  
# [Qt Help Project / Virtual Folders](http://doc.trolltech.com/qthelpproject.html#virtual-folders).

QHP\_VIRTUAL\_FOLDER = doc

# If the GENERATE\_QHP tag is set to YES, the QHG\_LOCATION tag can  
# be used to specify the location of Qt's qhelpgenerator.  
# If non-empty doxygen will try to run qhelpgenerator on the generated  
# .qhp file .

QHG\_LOCATION =

# The DISABLE\_INDEX tag can be used to turn on/off the condensed index at  
# top of each HTML page. The value NO (the default) enables the index and  
# the value YES disables it.

DISABLE\_INDEX = NO

# This tag can be used to set the number of enum values (range [1..20])  
# that doxygen will group on one line in the generated HTML documentation.

ENUM\_VALUES\_PER\_LINE = 4

# The GENERATE\_TREEVIEW tag is used to specify whether a tree-like index structure should be generated to display hierarchical information.  
# If the tag value is set to FRAME, a side panel will be generated containing a tree-like index structure (just like the one that is generated for HTML Help). For this to work a browser that supports JavaScript, DHTML, CSS and frames is required (for instance Mozilla 1.0+, Netscape 6.0+, Internet explorer 5.0+, or Konqueror). Windows users are probably better off using the HTML help feature. Other possible values for this tag are: HIERARCHIES, which will generate the Groups, Directories, and Class Hierarchy pages using a tree view instead of an ordered list; ALL, which combines the behavior of FRAME and HIERARCHIES; and NONE, which disables this behavior completely. For backwards compatibility with previous releases of Doxygen, the values YES and NO are equivalent to FRAME and NONE respectively.

GENERATE\_TREEVIEW = NONE

# If the treeview is enabled (see GENERATE\_TREEVIEW) then this tag can be used to set the initial width (in pixels) of the frame in which the tree is shown.

TREEVIEW\_WIDTH = 250

# Use this tag to change the font size of Latex formulas included as images in the HTML documentation. The default is 10. Note that when you change the font size after a successful doxygen run you need to manually remove any form\_\*.png images from the HTML output directory to force them to be regenerated.

FORMULA\_FONTSIZE = 10

#-----  
# configuration options related to the LaTeX output  
#-----

# If the GENERATE\_LATEX tag is set to YES (the default) Doxygen will generate Latex output.

GENERATE\_LATEX = NO

# The LATEX\_OUTPUT tag is used to specify where the LaTeX docs will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be put in front of it. If left blank 'latex' will be used as the default path.

LATEX\_OUTPUT = latex

# The LATEX\_CMD\_NAME tag can be used to specify the LaTeX command name to be invoked. If left blank 'latex' will be used as the default command name.

LATEX\_CMD\_NAME = latex

# The MAKEINDEX\_CMD\_NAME tag can be used to specify the command name to  
# generate index for LaTeX. If left blank `makeindex' will be used as the  
# default command name.

MAKEINDEX\_CMD\_NAME = makeindex

# If the COMPACT\_LATEX tag is set to YES Doxygen generates more compact  
# LaTeX documents. This may be useful for small projects and may help to  
# save some trees in general.

COMPACT\_LATEX = NO

# The PAPER\_TYPE tag can be used to set the paper type that is used  
# by the printer. Possible values are: a4, a4wide, letter, legal and  
# executive. If left blank a4wide will be used.

PAPER\_TYPE = a4wide

# The EXTRA\_PACKAGES tag can be to specify one or more names of LaTeX  
# packages that should be included in the LaTeX output.

EXTRA\_PACKAGES =

# The LATEX\_HEADER tag can be used to specify a personal LaTeX header for  
# the generated latex document. The header should contain everything until  
# the first chapter. If it is left blank doxygen will generate a  
# standard header. Notice: only use this tag if you know what you are doing!

LATEX\_HEADER =

# If the PDF\_HYPERLINKS tag is set to YES, the LaTeX that is generated  
# is prepared for conversion to pdf (using ps2pdf). The pdf file will  
# contain links (just like the HTML output) instead of page references  
# This makes the output suitable for online browsing using a pdf viewer.

PDF\_HYPERLINKS = YES

# If the USE\_PDFLATEX tag is set to YES, pdflatex will be used instead of  
# plain latex in the generated Makefile. Set this option to YES to get a  
# higher quality PDF documentation.

USE\_PDFLATEX = YES

# If the LATEX\_BATCHMODE tag is set to YES, doxygen will add the `\batchmode`.  
# command to the generated LaTeX files. This will instruct LaTeX to keep

# running if errors occur, instead of asking the user for help.  
# This option is also used when generating formulas in HTML.

LATEX\_BATCHMODE = NO

# If LATEX\_HIDE\_INDICES is set to YES then doxygen will not  
# include the index chapters (such as File Index, Compound Index, etc.)  
# in the output.

LATEX\_HIDE\_INDICES = NO

#-----  
# configuration options related to the RTF output  
#-----

# If the GENERATE\_RTF tag is set to YES Doxygen will generate RTF output  
# The RTF output is optimized for Word 97 and may not look very pretty with  
# other RTF readers or editors.

GENERATE\_RTF = NO

# The RTF\_OUTPUT tag is used to specify where the RTF docs will be put.  
# If a relative path is entered the value of OUTPUT\_DIRECTORY will be  
# put in front of it. If left blank `rtf' will be used as the default path.

RTF\_OUTPUT = rtf

# If the COMPACT\_RTF tag is set to YES Doxygen generates more compact  
# RTF documents. This may be useful for small projects and may help to  
# save some trees in general.

COMPACT\_RTF = NO

# If the RTF\_HYPERLINKS tag is set to YES, the RTF that is generated  
# will contain hyperlink fields. The RTF file will  
# contain links (just like the HTML output) instead of page references.  
# This makes the output suitable for online browsing using WORD or other  
# programs which support those fields.  
# Note: wordpad (write) and others do not support links.

RTF\_HYPERLINKS = NO

# Load stylesheet definitions from file. Syntax is similar to doxygen's  
# config file, i.e. a series of assignments. You only have to provide  
# replacements, missing definitions are set to their default value.

RTF\_STYLESHEET\_FILE =

# Set optional variables used in the generation of an rtf document.

# Syntax is similar to doxygen's config file.

RTF\_EXTENSIONS\_FILE =

#-----

# configuration options related to the man page output

#-----

# If the GENERATE\_MAN tag is set to YES (the default) Doxygen will

# generate man pages

GENERATE\_MAN = NO

# The MAN\_OUTPUT tag is used to specify where the man pages will be put.

# If a relative path is entered the value of OUTPUT\_DIRECTORY will be

# put in front of it. If left blank `man' will be used as the default path.

MAN\_OUTPUT = man

# The MAN\_EXTENSION tag determines the extension that is added to

# the generated man pages (default is the subroutine's section .3)

MAN\_EXTENSION = .3

# If the MAN\_LINKS tag is set to YES and Doxygen generates man output,

# then it will generate one additional man file for each entity

# documented in the real man page(s). These additional files

# only source the real man page, but without them the man command

# would be unable to find the correct page. The default is NO.

MAN\_LINKS = NO

#-----

# configuration options related to the XML output

#-----

# If the GENERATE\_XML tag is set to YES Doxygen will

# generate an XML file that captures the structure of

# the code including all documentation.

GENERATE\_XML = NO

# The XML\_OUTPUT tag is used to specify where the XML pages will be put.

# If a relative path is entered the value of OUTPUT\_DIRECTORY will be

# put in front of it. If left blank `xml' will be used as the default path.

XML\_OUTPUT = xml



# The XML\_SCHEMA tag can be used to specify an XML schema,  
# which can be used by a validating XML parser to check the  
# syntax of the XML files.

XML\_SCHEMA =

# The XML\_DTD tag can be used to specify an XML DTD,  
# which can be used by a validating XML parser to check the  
# syntax of the XML files.

XML\_DTD =

# If the XML\_PROGRAMLISTING tag is set to YES Doxygen will  
# dump the program listings (including syntax highlighting  
# and cross-referencing information) to the XML output. Note that  
# enabling this will significantly increase the size of the XML output.

XML\_PROGRAMLISTING = YES

#-----  
# configuration options for the AutoGen Definitions output  
#-----

# If the GENERATE\_AUTOGEN\_DEF tag is set to YES Doxygen will  
# generate an AutoGen Definitions (see autogen.sf.net) file  
# that captures the structure of the code including all  
# documentation. Note that this feature is still experimental  
# and incomplete at the moment.

GENERATE\_AUTOGEN\_DEF = NO

#-----  
# configuration options related to the Perl module output  
#-----

# If the GENERATE\_PERLMOD tag is set to YES Doxygen will  
# generate a Perl module file that captures the structure of  
# the code including all documentation. Note that this  
# feature is still experimental and incomplete at the  
# moment.

GENERATE\_PERLMOD = NO

# If the PERLMOD\_LATEX tag is set to YES Doxygen will generate  
# the necessary Makefile rules, Perl scripts and LaTeX code to be able  
# to generate PDF and DVI output from the Perl module output.

PERLMOD\_LATEX = NO

# If the PERLMOD\_PRETTY tag is set to YES the Perl module output will be  
# nicely formatted so it can be parsed by a human reader. This is useful  
# if you want to understand what is going on. On the other hand, if this  
# tag is set to NO the size of the Perl module output will be much smaller  
# and Perl will parse it just the same.

PERLMOD\_PRETTY = YES

# The names of the make variables in the generated doxyrules.make file  
# are prefixed with the string contained in PERLMOD\_MAKEVAR\_PREFIX.  
# This is useful so different doxyrules.make files included by the same  
# Makefile don't overwrite each other's variables.

PERLMOD\_MAKEVAR\_PREFIX =

#-----

# Configuration options related to the preprocessor

#-----

# If the ENABLE\_PREPROCESSING tag is set to YES (the default) Doxygen will  
# evaluate all C-preprocessor directives found in the sources and include  
# files.

ENABLE\_PREPROCESSING = YES

# If the MACRO\_EXPANSION tag is set to YES Doxygen will expand all macro  
# names in the source code. If set to NO (the default) only conditional  
# compilation will be performed. Macro expansion can be done in a controlled  
# way by setting EXPAND\_ONLY\_PREDEF to YES.

MACRO\_EXPANSION = YES

# If the EXPAND\_ONLY\_PREDEF and MACRO\_EXPANSION tags are both set to YES  
# then the macro expansion is limited to the macros specified with the  
# PREDEFINED and EXPAND\_AS\_DEFINED tags.

EXPAND\_ONLY\_PREDEF = YES

# If the SEARCH\_INCLUDES tag is set to YES (the default) the includes files  
# in the INCLUDE\_PATH (see below) will be search if a #include is found.

SEARCH\_INCLUDES = YES

# The INCLUDE\_PATH tag can be used to specify one or more directories that  
# contain include files that are not input files but should be processed by  
# the preprocessor.

INCLUDE\_PATH =

# You can use the INCLUDE\_FILE\_PATTERNS tag to specify one or more wildcard  
# patterns (like \*.h and \*.hpp) to filter out the header-files in the  
# directories. If left blank, the patterns specified with FILE\_PATTERNS will  
# be used.

INCLUDE\_FILE\_PATTERNS =

# The PREDEFINED tag can be used to specify one or more macro names that  
# are defined before the preprocessor is started (similar to the -D option of  
# gcc). The argument of the tag is a list of macros of the form: name  
# or name=definition (no spaces). If the definition and the = are  
# omitted =1 is assumed. To prevent a macro definition from being  
# undefined via #undef or recursively expanded use the := operator  
# instead of the = operator.

PREDEFINED = BCM\_PLP\_BASE\_T\_PHY INCLUDE\_XGXS\_TEMOD PHYMOD\_DEBUG\_ERROR  
PHYMOD\_DEBUG\_VERBOSE PHYMOD\_USLEEP PHYMOD\_SLEEP PHYMOD\_MALLOC  
PHYMOD\_FREE PHYMOD\_MEMSET PHYMOD\_MEMCPY PHYMOD\_STRCMP

# If the MACRO\_EXPANSION and EXPAND\_ONLY\_PREDEF tags are set to YES then  
# this tag can be used to specify a list of macro names that should be expanded.  
# The macro definition that is found in the sources will be used.  
# Use the PREDEFINED tag if you want to use a different macro definition.

EXPAND\_AS\_DEFINED =

# If the SKIP\_FUNCTION\_MACROS tag is set to YES (the default) then  
# doxygen's preprocessor will remove all function-like macros that are alone  
# on a line, have an all uppercase name, and do not end with a semicolon. Such  
# function macros are typically used for boiler-plate code, and will confuse  
# the parser if not removed.

SKIP\_FUNCTION\_MACROS = YES

#-----  
# Configuration::additions related to external references  
#-----

# The TAGFILES option can be used to specify one or more tagfiles.  
# Optionally an initial location of the external documentation  
# can be added for each tagfile. The format of a tag file without  
# this location is as follows:  
# TAGFILES = file1 file2 ...  
# Adding location for the tag files is done as follows:  
# TAGFILES = file1=loc1 "file2 = loc2" ...

# where "loc1" and "loc2" can be relative or absolute paths or  
# URLs. If a location is present for each tag, the installdox tool  
# does not have to be run to correct the links.  
# Note that each tag file must have a unique name  
# (where the name does NOT include the path)  
# If a tag file is not located in the directory in which doxygen  
# is run, you must also specify the path to the tagfile here.

TAGFILES =

# When a file name is specified after GENERATE\_TAGFILE, doxygen will create  
# a tag file that is based on the input files it reads.

GENERATE\_TAGFILE =

# If the ALLEXTERNALS tag is set to YES all external classes will be listed  
# in the class index. If set to NO only the inherited external classes  
# will be listed.

ALLEXTERNALS = NO

# If the EXTERNAL\_GROUPS tag is set to YES all external groups will be listed  
# in the modules index. If set to NO, only the current project's groups will  
# be listed.

EXTERNAL\_GROUPS = YES

# The PERL\_PATH should be the absolute path and name of the perl script  
# interpreter (i.e. the result of `which perl').

PERL\_PATH = /usr/bin/perl

#-----  
# Configuration options related to the dot tool  
#-----

# If the CLASS\_DIAGRAMS tag is set to YES (the default) Doxygen will  
# generate a inheritance diagram (in HTML, RTF and LaTeX) for classes with base  
# or super classes. Setting the tag to NO turns the diagrams off. Note that  
# this option is superseded by the HAVE\_DOT option below. This is only a  
# fallback. It is recommended to install and use dot, since it yields more  
# powerful graphs.

CLASS\_DIAGRAMS = YES

# You can define message sequence charts within doxygen comments using the \msc  
# command. Doxygen will then run the mscgen tool (see  
# <http://www.mcternan.me.uk/mscgen/>) to produce the chart and insert it in the

# documentation. The MSCGEN\_PATH tag allows you to specify the directory where  
# the mscgen tool resides. If left empty the tool is assumed to be found in the  
# default search path.

MSCGEN\_PATH =

# If set to YES, the inheritance and collaboration graphs will hide  
# inheritance and usage relations if the target is undocumented  
# or is not a class.

HIDE\_UNDOC\_RELATIONS = YES

# If you set the HAVE\_DOT tag to YES then doxygen will assume the dot tool is  
# available from the path. This tool is part of Graphviz, a graph visualization  
# toolkit from AT&T and Lucent Bell Labs. The other options in this section  
# have no effect if this option is set to NO (the default)

HAVE\_DOT = YES

# By default doxygen will write a font called FreeSans.ttf to the output  
# directory and reference it in all dot files that doxygen generates. This  
# font does not include all possible unicode characters however, so when you need  
# these (or just want a differently looking font) you can specify the font name  
# using DOT\_FONTNAME. You need need to make sure dot is able to find the font,  
# which can be done by putting it in a standard location or by setting the  
# DOTFONTPATH environment variable or by setting DOT\_FONTPATH to the directory  
# containing the font.

DOT\_FONTNAME = FreeSans

# By default doxygen will tell dot to use the output directory to look for the  
# FreeSans.ttf font (which doxygen will put there itself). If you specify a  
# different font using DOT\_FONTNAME you can set the path where dot  
# can find it using this tag.

DOT\_FONTPATH =

# If the CLASS\_GRAPH and HAVE\_DOT tags are set to YES then doxygen  
# will generate a graph for each documented class showing the direct and  
# indirect inheritance relations. Setting this tag to YES will force the  
# the CLASS\_DIAGRAMS tag to NO.

CLASS\_GRAPH = YES

# If the COLLABORATION\_GRAPH and HAVE\_DOT tags are set to YES then doxygen  
# will generate a graph for each documented class showing the direct and  
# indirect implementation dependencies (inheritance, containment, and  
# class references variables) of the class with other documented classes.

COLLABORATION\_GRAPH = YES

# If the GROUP\_GRAPHS and HAVE\_DOT tags are set to YES then doxygen  
# will generate a graph for groups, showing the direct groups dependencies

GROUP\_GRAPHS = YES

# If the UML\_LOOK tag is set to YES doxygen will generate inheritance and  
# collaboration diagrams in a style similar to the OMG's Unified Modeling  
# Language.

UML\_LOOK = NO

# If set to YES, the inheritance and collaboration graphs will show the  
# relations between templates and their instances.

TEMPLATE\_RELATIONS = NO

# If the ENABLE\_PREPROCESSING, SEARCH\_INCLUDES, INCLUDE\_GRAPH, and HAVE\_DOT  
# tags are set to YES then doxygen will generate a graph for each documented  
# file showing the direct and indirect include dependencies of the file with  
# other documented files.

INCLUDE\_GRAPH = YES

# If the ENABLE\_PREPROCESSING, SEARCH\_INCLUDES, INCLUDED\_BY\_GRAPH, and  
# HAVE\_DOT tags are set to YES then doxygen will generate a graph for each  
# documented header file showing the documented files that directly or  
# indirectly include this file.

INCLUDED\_BY\_GRAPH = YES

# If the CALL\_GRAPH and HAVE\_DOT options are set to YES then  
# doxygen will generate a call dependency graph for every global function  
# or class method. Note that enabling this option will significantly increase  
# the time of a run. So in most cases it will be better to enable call graphs  
# for selected functions only using the \callgraph command.

CALL\_GRAPH = NO

# If the CALLER\_GRAPH and HAVE\_DOT tags are set to YES then  
# doxygen will generate a caller dependency graph for every global function  
# or class method. Note that enabling this option will significantly increase  
# the time of a run. So in most cases it will be better to enable caller  
# graphs for selected functions only using the \callergraph command.

CALLER\_GRAPH = NO

# If the GRAPHICAL\_HIERARCHY and HAVE\_DOT tags are set to YES then doxygen  
# will graphical hierarchy of all classes instead of a textual one.

GRAPHICAL\_HIERARCHY = YES

# If the DIRECTORY\_GRAPH, SHOW\_DIRECTORIES and HAVE\_DOT tags are set to YES  
# then doxygen will show the dependencies a directory has on other directories  
# in a graphical way. The dependency relations are determined by the #include  
# relations between the files in the directories.

DIRECTORY\_GRAPH = YES

# The DOT\_IMAGE\_FORMAT tag can be used to set the image format of the images  
# generated by dot. Possible values are png, jpg, or gif  
# If left blank png will be used.

DOT\_IMAGE\_FORMAT = png

# The tag DOT\_PATH can be used to specify the path where the dot tool can be  
# found. If left blank, it is assumed the dot tool can be found in the path.

DOT\_PATH =

# The DOTFILE\_DIRS tag can be used to specify one or more directories that  
# contain dot files that are included in the documentation (see the  
# \dotfile command).

DOTFILE\_DIRS =

# The DOT\_GRAPH\_MAX\_NODES tag can be used to set the maximum number of  
# nodes that will be shown in the graph. If the number of nodes in a graph  
# becomes larger than this value, doxygen will truncate the graph, which is  
# visualized by representing a node as a red box. Note that doxygen if the  
# number of direct children of the root node in a graph is already larger than  
# DOT\_GRAPH\_MAX\_NODES then the graph will not be shown at all. Also note  
# that the size of a graph can be further restricted by MAX\_DOT\_GRAPH\_DEPTH.

DOT\_GRAPH\_MAX\_NODES = 50

# The MAX\_DOT\_GRAPH\_DEPTH tag can be used to set the maximum depth of the  
# graphs generated by dot. A depth value of 3 means that only nodes reachable  
# from the root by following a path via at most 3 edges will be shown. Nodes  
# that lay further from the root node will be omitted. Note that setting this  
# option to 1 or 2 may greatly reduce the computation time needed for large  
# code bases. Also note that the size of a graph can be further restricted by  
# DOT\_GRAPH\_MAX\_NODES. Using a depth of 0 means no depth restriction.

MAX\_DOT\_GRAPH\_DEPTH = 0

# Set the DOT\_TRANSPARENT tag to YES to generate images with a transparent  
# background. This is disabled by default, because dot on Windows does not  
# seem to support this out of the box. Warning: Depending on the platform used,  
# enabling this option may lead to badly anti-aliased labels on the edges of  
# a graph (i.e. they become hard to read).

DOT\_TRANSPARENT = NO

# Set the DOT\_MULTI\_TARGETS tag to YES allow dot to generate multiple output  
# files in one run (i.e. multiple -o and -T options on the command line). This  
# makes dot run faster, but since only newer versions of dot (>1.8.10)  
# support this, this feature is disabled by default.

DOT\_MULTI\_TARGETS = NO

# If the GENERATE\_LEGEND tag is set to YES (the default) Doxygen will  
# generate a legend page explaining the meaning of the various boxes and  
# arrows in the dot generated graphs.

GENERATE\_LEGEND = YES

# If the DOT\_CLEANUP tag is set to YES (the default) Doxygen will  
# remove the intermediate dot files that are used to generate  
# the various graphs.

DOT\_CLEANUP = YES

#-----  
# Configuration::additions related to the search engine  
#-----

# The SEARCHENGINE tag specifies whether or not a search engine should be  
# used. If set to NO the values of all tags below this one will be ignored.

SEARCHENGINE = NO

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/Doxyfile

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\*

\* This header file defines packet formats for Ethernet and Broadcom stacking.

\*/

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/enet.h

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\* File : phy542xx\_cfg\_seq.h  
\* Description: c functions implementing Tier1

/\*-----\*/

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 \* \$Id\$  
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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/phy542xx\_diag\_seq.h

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/List/src/list.c  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/List/incl/list.h  
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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier2/phy542xx\_diagnostics.c  
 \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier2/phy542xx.c  
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\* File: phyxehg.h

\* Purpose: Defines common PHY driver routines for Broadcom 10G PHY.

\*/

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
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 \*  
 \* File: memregs.h  
 \* Purpose: Memory entry declarations, memory and register macros  
 \*  
 \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/mcm/memregs.h

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\*

\* File: spl.h

\* Purpose: Interrupt Blocking

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/spl.h  
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 \*  
 \*  
 \*/  
 /\*  
 \*  
 \* \$Id: phymod\_definitions.h,v 1.2.2.12 2013/09/03 06:54:51 dayad Exp \$  
 \*  
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 \*  
 \* Shell diagnostics of Phymod  
 \*  
 \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_diag.h  
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<li>confidentiality\_offset

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/html/functions\_0x63.html  
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\*

\* File: uc\_msg.h

\*/

Found in path(s):

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/uc\_msg.h

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\*

\* File: cmic.h

\* Purpose: Maps out structures used for CMIC operations and  
\* exports routines and constants.

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/cmic.h

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```
<tr class="memitem:aa2c876827f8a8dfa4c09a43182963529"><td class="memItemLeft" align="right"
valign="top">unsigned char&#160;</td><td class="memItemRight" valign="bottom"><a class="el"
href="structbcm__plp__base__t__secy__sa__ca__t.html#aa2c876827f8a8dfa4c09a43182963529">confidentiality_o
ffset</a></td></tr>
<td class="memname">unsigned char bcm_plp_base_t_secy_sa_ca_t::confidentiality_offset</td>
<p>true - enable confidentiality protection (AES-GCM/CTR operation)<br/>
false - disable confidentiality protection (AES-GMAC operation) </p>
```

Found in path(s):

```
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/html/structbcm__plp__base__t__secy__sa__ca__t.html
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```

```
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\*  
\* File: memory.h  
\* Purpose: Base definitions for memory types  
\* Requires:  
\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/memory.h  
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\* File: phyecd.c  
\* Purpose: PHY ECD routines  
\*/

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/phyecd.c  
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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/dox/bcm\_common\_defines.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_pm\_if/bcm\_common\_defines.h  
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\*  
\* Its contents are not used directly by applications; it is used only  
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\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/timesync.h  
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\*

\* File: allfields.h

\* Purpose: Field declarations for memory and registers

\*

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/mcm/allfields.h

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/cm.h

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/\*

\* \$Id: phymod.xml,v 1.1.2.5 Broadcom SDK \$

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\*

\*/

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_doc.h  
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```

gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/SABuilder_MACsec/src/c_sa_builder_macsec.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/adapter_xtsecy.c
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/SABuilder_MACsec/incl/sa_builder_macsec.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/incl/api_xtsecy_stats.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/incl/api_xtsecy.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/SABuilder_MACsec/src/sa_builder_internal.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/SABuilder_MACsec/src/sa_builder_macsec.c
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/incl/api_xtsecy_notify.
h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/SABuilder_MACsec/src/sa_builder_eip165.c
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```

```

/*
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\*

\* This file defines L3 constants

\*

\* Its contents are not used directly by applications; it is used only  
\* by header files of parent APIs which need to share L3 constants.  
\*/

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/l3.h  
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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/common/adapter\_in  
terrupts.h

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```
#
# $Id$
# $Copyright: (c) 2017 Broadcom Limited All Rights Reserved.$
#
```

-----  
- README file for the PHY software driver -  
-----

## Description

-----  
This package contains PHY software drivers.

## Further README contents

- 
1. List of key files
  2. How to Compile
  3. An example of how to write a sample program to access software driver library using EPDM
  4. How to access documentation
  5. How to specify firmware download method
  6. Microcode Release
  7. Floating point library requirement
  8. To enable debug message for register read and write
  9. Updating PRE defined macro with user defined macro/API
  10. Warmboot support
  11. Using EPDM common define to compile driver

1. List of key files

-----

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| README                            | - This is README file                                                  |
| ReleaseNote.txt                   | - List of changes between current releases to previous release version |
| ReleaseNote_fw_<chip>.txt         | - <chip> firmware release notes.                                       |
| bcm_pm_if                         | - PHYMOD Interface functionalities                                     |
| bcm_plp_sec or bcm_plp_base_t_sec | - CfyE and SecY Interface functionality or SecY interface support      |
| DDK or IMACSEC                    | - CfyE and SecY source or SecY support                                 |
| doc                               | - Documentation (using Doxygen)                                        |
| <chip>_reference_app              | - Sample application to access phy chip                                |
| make                              | - make rules and config files                                          |
| Makefile                          | - Makefile provides 'build' and 'clean' the targets                    |
| phymod/acc                        | - Platform specific register access mechanism                          |
| phymod/chip                       | - All supported CHIPS                                                  |
| phymod/chip/<chip>                | - chip specific functionalities                                        |
| phymod/core                       | - PHYMOD APIs for dispatch,access,diagnostics and                      |

|                            |       |                                                  |
|----------------------------|-------|--------------------------------------------------|
|                            | debug |                                                  |
| phymod/diag                |       | - PHYMOD diag APIs for eyescan,dsc.. etc         |
| phymod/doc                 |       | - Documentation for phymod (using Doxygen)       |
| phymod/include             |       | - Header files, phymod custom config header file |
| phymod/include/phymod      |       | - PHYMOD APIs related header files               |
| phymod/include/phymod/acc  |       | - PHYMOD APIs access header files                |
| phymod/include/phymod/chip |       | - PHYMOD APIs chip related header files          |

## 2. How to compile

-----

To compile, unpack it to a directory and run

To Unpack

-----

`tar -zxvf <CHIP>_<Y>_<Z>.tgz`

To compile

-----

`cd <CHIP>_<Y>_<Z>.tgz`

`make clean`

`make`

## 3. An example of how to write a sample program to access software driver library using EPDM

-----

Application users have to download EPDM(External PHY Device manager) to their code to access phy drivers.

All supported EPDM APIs are listed under \$EPDM/epdm.h and \$EPDM/epdm\_sec.h(for DDK) or \$EPDM/epdm\_base\_t\_sec.h(for IMACSEC).

-> User needs to set \$EPDM\_HOME in Makefile with the EPDM source code location

Example Application program:

-----

\$<CHIP>\_<Y>\_<Z>/<chip>\_reference\_app have an example of accessing PHY driver library through EPDM

## 4. How to access documentation

-----

See the included doc pages for more information on \$<CHIP>\_<Y>\_<Z>.

Documentation pages available at \$<CHIP>\_<Y>\_<Z>/doc/html/index.html

## 5. How to specify firmware download method

-----

-----

## Broadcast Firmware Download

Broadcast Firmware download is a method to broadcast firmware on all phy devices connected on same MDIO bus. Broadcast is supported by MDIO download method.

Application has to follow below steps to start the broadcast firmware download using this API:

```
int bcm_plp_init_fw_bcast(char* chip_name, bcm_plp_access_t phy_info,
    int (*read)(void* user_acc, unsigned int core_addr, unsigned int reg_addr, unsigned int* val),
    int (*write)(void* user_acc, unsigned int core_addr, unsigned int reg_addr, unsigned int val),
    bcm_plp_firmware_load_type_t *firmware_load_type,
    bcm_plp_firmware_broadcast_method_t broadcast_method);
```

firmware\_load\_type.firmware\_load\_method      Specify the firmware load method

- 0 - bcmmpmFirmwareLoadMethodNone      Do not download firmware
- 1 - bcmmpmFirmwareLoadMethodInternal      Internal Firmware Download: MDIO download
- 2 - bcmmpmFirmwareLoadMethodExternal      Reserved for future use
- 3 - bcmmpmFirmwareLoadMethodProgEEPROM      Reserved for future use

firmware\_load\_type.force\_load\_method      Force firmware load method

- 0 - bcmmpmFirmwareLoadSkip      Skip firmware download if firmware is already present
- 1 - bcmmpmFirmwareLoadForce      Always download the firmware specified by firmware load method
- 2 - bcmmpmFirmwareLoadAuto      Check the firmware version: if it is different from current version  
download the firmware,  
otherwise skip the download

Following steps are followed for broadcast method:

```
firmware_load_type.firmware_load_method=bcmmpmFirmwareLoadMethodInternal;
firmware_load_type.force_load_method=bcmmpmFirmwareLoadForce;
```

Identify list of PHY's that needs to be broadcasted on a MDIO Bus which is referred as BCAST\_LIST, To perform broadcast follow below steps,

i) For each PHY in BCAST\_LIST call,

```
bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type,
bcmmpmFirmwareBroadcastCoreReset); ## This Hard reset the core.
```

ii) For each PHY in BCAST\_LIST call,

```
bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type,
bcmFirmwareBroadcastEnable); ## Enable Broadcast mode, Broadcast Starts
```

iii) Load Firmware for any one Phy/Core in BCAST\_LIST,

```
bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type,
bcmFirmwareBroadcastFirmwareExecute); ## Download MICROCODE
```

iv) For each PHY in BCAST\_LIST call,

```
bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type,
bcmFirmwareBroadcastFirmwareVerify); ## verify FW
```

v) For each PHY in BCAST\_LIST call,  
bcm\_plp\_init\_fw\_bcast("chip\_name",phy\_info, read, write, &firmware\_load\_type, bcmFirmwareBroadcastEnd);  
## End of broadcast

---

#### Unicast Firmware Download

---

Unicast firmware download can also be achieved through "bcm\_plp\_init\_fw\_bcast", By calling with bcmFirmwareBroadcastNone API as follows,  
bcm\_plp\_init\_fw\_bcast("chip\_name",phy\_info, read, write,&firmware\_load\_type,bcmFirmwareBroadcastNone);

#### 6. Microcode Release

---

i) Hex version of microcode(firmware) file, <chip>\_ucode.c available in  
\${CHIP}\_Y\_Z/phymod/chip/<phy chip>/tier1

<Version> denotes the version of the firmware.  
<chip> denotes the phy chip

#### 7. Floating Point Library Requirement:

---

bcm\_pm\_if\_eye\_margin\_proj API requires floating point library support.  
User has to compile ePIL with SERDES\_API\_FLOATING\_POINT in config.mk as mentioned below(conditional compilation flag, specified in make file with -D option)  
for enabling bcm\_pm\_if\_eye\_margin\_proj API support.

```
TMP_PHYMOD_EPIL_CPPFLAGS += -DSERDES_API_FLOATING_POINT
before
export PHYMOD_EPIL_DSYM_CPPFLAGS
```

#### 8. To enable debug message for register read and write:

---

Add TMP\_PHYMOD\_EPIL\_CPPFLAGS += -DPHYMOD\_DEBUG\_BUS\_WRITE -  
DPHYMOD\_DEBUG\_BUS\_READ in make\config.mk file

#### 9. Updating PRE defined PHYMOD macro with user defined macro/API

---

PHYMOD provides a way to update pre defined macro with user defined API.  
User needs to update macros in \${CHIP}\_Y\_Z/phymod/include/phymod\_custom\_config.h based on user environment.

eg: #define PHYMOD\_USLEEP user\_usleep

#### 10. Warmboot Support

-----  
Application has to follow below steps to perform warmboot,

1. To enable driver to supports warmboot,

Compile with TMP\_PHYMOD\_EPIL\_CPPFLAGS += -DBCM\_PLP\_WARM\_BOOT\_SUPPORT in  
make\config.mk file

2. To use warmboot feature,

Call bcm\_plp\_init API or bcm\_plp\_init\_fw\_bcast API (for broadcast enabled init) with  
flags(under bcm\_plp\_info structure) as BCM\_PLP\_WARM\_BOOT.

For MACSEC module,

Call bcm\_plp\_cyfe\_device\_init with flags(under bcm\_plp\_info structure) as BCM\_PLP\_WARM\_BOOT and

Call bcm\_plp\_secy\_device\_init with flags(under bcm\_plp\_info structure) as BCM\_PLP\_WARM\_BOOT.

NOTE: For cold boot it is expected to clear flags (under bcm\_plp\_info structure)

## 11. Using EPDM common define to compile driver

-----

1. Enabling driver to use epdm common defines,

Step 1: Compile with TMP\_PHYMOD\_EPIL\_CPPFLAGS += -DUSE\_EPDM\_COMMON\_DEFINES in  
make\config.mk file

Step 2: Define EPDM\_HOME based on your EPDM installation directory

Note: By default driver uses common defines that is available in the driver package.

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/README

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Found in path(s):

```
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/c_hwpal_device_umdevxs.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/DriverFramework/src/hwpal_device_um
devxs.c
```

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```
/*
* $Id: phy_unimac.c,v 1.3 2011/05/12 01:35:43 raphy Exp $
* $Copyright: (c) 2008 Broadcom Corp.
* All Rights Reservedes.$
*/
```

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```
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy_unimac.c
```

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```
<tr class="memitem:a1c8f9fa7a255053b1d561938628d5f44"><td class="memItemLeft" align="right"
valign="top">unsigned char&#160;</td><td class="memItemRight" valign="bottom"><a class="el"
href="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44">confidentiality_of
fset</a></td></tr>
<td class="memname">unsigned char bcm_plp_base_t_secy_sa_i_t::confidentiality_offset</td>
```

Found in path(s):

```
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/html/structbcm__plp__base__t__secy__sa__i__t.html
```

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- \* \$Id\$
- \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/phy542xx\_diag\_seq.c  
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 \*  
 \* File: ccmdma.h  
 \* Purpose: Maps out structures used for CCMDMA operations and  
 \* exports routines.  
 \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ccmdma.h  
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\*

\* File: mos\_intr\_common.h

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
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\_common.h

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\* File: dpc.h

\* Purpose: Deferred Procedure Call module

\*/

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_diagnostics\_dispatch.h  
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 gz/Seahawks\_Stand\_Alone\_APis\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/legacy.c

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 \*  
 \* File: field.h  
 \* Purpose: Register/memory field descriptions  
 \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/field.h  
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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_dispatch.h  
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 /\* false - disable confidentiality protection \*/  
 /\* true - enable confidentiality protection (AES-GCM/CTR operation) \*/

/\* false - disable confidentiality protection (AES-GMAC operation) \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/incl/eip160\_secy.h  
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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_pm\_if/bcm\_pm\_if.h  
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 \*  
 \* File: phydefs.h  
 \* Purpose: Basic defines for PHYs.  
 \* This should be included after all other SOC include files and  
 \* before all other PHY include files.  
 \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/phydefs.h  
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\*  
\* SOC\_FEATURE definitions  
\*  
\* File: feature.h  
\* Purpose: Define features by chip  
\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/feature.h  
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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_systemtestconfig.h  
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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/common/adapter\_in terrupts.c  
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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Integration/Adapter\_EIP160/src/common/adapter\_init.c  
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\* File: thread.h

\* Purpose: SAL thread definitions

\*/

Found in path(s):

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\*

\* File: soc/ethdma.h

\* Purpose:

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ethdma.h

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 \*  
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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod\_custom\_config.h  
 \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/seahawks\_reference\_app/seahawks\_config.h  
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 \*  
 \* Bit Array Operations  
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```
#!/usr/bin/env perl
#
# $Id$
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#
# mktool.pl
#
```

```
use File::Path;
use File::Find;
use File::Copy;
use Cwd;
```

```
($prog = $0) =~ s/.*\///;
```

```
SWITCH:
```

```
{
    $op = shift;

    if ($op eq "-rm") { mktool_rm(@ARGV); last SWITCH; }
    if ($op eq "-cp") { mktool_cp(@ARGV); last SWITCH; }
    if ($op eq "-md") { mktool_md(@ARGV); last SWITCH; }
    if ($op eq "-ln") { mktool_ln(@ARGV); last SWITCH; }
    if ($op eq "-foreach") { mktool_foreach(@ARGV); last SWITCH; }
    if ($op eq "-dep") { mktool_makedep(@ARGV); last SWITCH; }
    if ($op eq "-echo") { mktool_echo(@ARGV); last SWITCH; }
    if ($op eq "-beep") { mktool_beep(@ARGV); last SWITCH; }
    die("$prog: unknown option '$op'\n");
}
```

```

}

exit 0;


#
# mktool_execute
#
# Executes a command, returns exist status.
# Performs token special translation before execution.
#

sub mktool_execute
{
    my $token = shift;
    my @cmds = @_ ;

    #  printf("mktool_execute: token = '$token'\n");
    foreach $cmd (@cmds)
    {
        #printf("mktool_execute: cmd = '$cmd'\n");
        $cmd =~ s/\#\#/$token/g;
        if($cmd =~ /^~p/)
        {
            $cmd =~ s/^~p//;
            printf("$cmd\n");
        }
        else
        {
            system($cmd);
            my $excode = ($? >> 8);
            exit $excode if $excode;
        }
    }
}

$find_regexp = "";
@find_cmd;


#
# mktool_foreach
#
sub mktool_foreach
{
    if($_[0] eq "-find")

```

```

{
shift;
$find_dir = shift;
$find_regexp = shift;
@find_cmds = @_;

if(!($find_dir =~ /^\/))
{
    $find_dir = cwd() . "/" . $find_dir;
}
find(\&_mktool_foreach_find_wanted, $find_dir);
}
else
{
my $subdir = 0;
if($_[0] eq "-subdir")
{
    $subdir = 1;
    shift;
}

my @thingies = split(' ', shift);

foreach $thingy (@thingies)
{
    chdir $thingy unless $subdir == 0;
    mktool_execute($thingy, @_);
    chdir ".." unless $subdir == 0;
}
}

sub _mktool_foreach_find_wanted
{
    my $expr = "\$File::Find::name =~ /^{$find_regexp}$/";

    if(eval($expr))
    {
        mktool_execute($File::Find::name, @find_cmds);
        exit $excode if $excode;
    }
}

#
# rm

```



```

#
# Removes a list of objects
#
sub mktool_rm
{
    my($f);

    foreach $f (@_) {
        eval { rmtree($f) };
        if ($?) {
            die "$prog $op: failed to remove $f: $@\n";
        }
    }
}

#
# md
#
# Makes a list of directories
#
sub mktool_md
{
    my($dir);

    foreach $dir (@_) {
        $dir =~ s!/+$/!;
        eval { mkpath($dir) };
        if ($?) {
            die "$prog $op: failed to make directory $dir: $@\n";
        }
    }
}

sub mktool_cp
{
    my($from, $to) = @_;

    if (@_ != 2) {
        die "$prog $op: must have two arguments\n";
    }
    copy($from, $to) ||
        die "$prog $op: failed to copy $from to $to: $!\n";
}

sub mktool_ln
{
    my($old, $new) = @_;

```

```

if (@_ != 2) {
    die "$prog $op: must have two arguments\n";
}
link ($old, $new) ||
die "$prog $op: failed to link $new to $old: $!\n";
}

# @echo "$@" > ${BLDDIR}/${notdir $@}
# @if ($(DEPEND)) >> ${BLDDIR}/${notdir $@}; then \
#   exit 0; \
# else \
#   rm -f ${BLDDIR}/${notdir $@}; \
#   exit 1; \
# fi

# $(MAKEDEP) "$@" "${BLDDIR}/${notdir $@}" "$(DEPEND)"

sub mktool_makedep
{
    my ($source, $target, $cmd) = @_ ;
    my $result = `$cmd`;
    if(!$?)
    {
        $result =~ s/^#.*\n//g; # some makedeps produce comments
        $result =~ s/\n+$/;/; # toss trailing newlines

        open (TARGET, ">$target") ||
            die("$prog $op: cannot open '$target' for writing: $!\n");
        print TARGET "$source \\n\${BLDDIR}/${result}\n";
        close(TARGET);
    }
}

sub mktool_echo
{
    print "@_ \n";
}

sub mktool_beep
{
    -t STDOUT && defined $ENV{MAKEBEEP} && print "\007";
}

```

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/make/mktool.pl

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```

Found in path(s):

```

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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP201/src/eip201.c
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP201/src/c_eip201.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/DriverFramework/Device_API/incl/device_types
.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP201/incl/eip201.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/DriverFramework/Device_API/incl/device_swap
.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/DriverFramework/Device_API/incl/device_rw.h
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```

```

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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/bslenum.h  
 \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/robo\_fp.h  
 \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/drv\_if.h  
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\*  
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\*/

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 \*  
 \* Compiler Specific defines and options  
 \*/

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sal/compiler.h  
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- \* \$Id\$
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- \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/dox/all\_doc.h
- \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/seahawks\_reference\_app/WinTypes.h
- \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_pm\_if/all\_doc.h

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\* ISM-HASH management routines

\*/

Found in path(s):

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\* \$Id: phyfege.h,v 1.8 2010/05/26 00:35:06 mpall Exp \$

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\* File: phylocal.h

\* Purpose:

\*/

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/phyfege.h

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\* \$Id: port.h,v 1.120 2013/09/18 09:18:37 galrotem Exp \$

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\* This file defines common network port parameters.

/\*

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\*/

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\*

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\*

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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/core/phymod\_debug.c  
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 \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
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\*

\* File: types.h

\* Purpose: SAL type definitions

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sal/types.h

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\*

\* File: sync.h

\* Purpose: SAL thread definitions

\*

\* Note: the SAL mutex abstraction is required to allow the same mutex  
\* to be taken recursively by the same thread without deadlock.

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

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*
```

```

*
*/
/*
*
* $Id: phymod.c,v 1.2.2.13 2013/08/12 11:43:46 dayad Exp $
*
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*
*/

```

Found in path(s):

```

* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/core/phymod.c

```

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```

<tr><td class="entry"><a class="el"
href="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44">confidentiality_of
fset</a></td><td class="entry"><a class="el"
href="structbcm__plp__base__t__secy__sa__i__t.html">bcm_plp_base_t_secy_sa_i_t</a></td><td
class="entry"></td></tr>

```

Found in path(s):

```

* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/html/structbcm__plp__base__t__secy__sa__i__t-
members.html

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- \*
- \* File: drv.h
- \* Purpose: Link Layer interface (PHY)
- \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phy/drv.h  
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\$Id\$

\*/

```
sa.Params.Egress.ConfidentialityOffset = sa_p->params.egress.confidentiality_offset;    \
sa.Params.Ingress.ConfidentialityOffset = sa_p->params.ingress.confidentiality_offset;    \
sa.Params.CryptAuth.ConfidentialityOffset = sa_p->params.crypt_auth.confidentiality_offset; \
```

Found in path(s):

```
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/bcm_plp_base_t_sec/bcm_plp_base_t_secy_api.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_plp_base_t_secy_api.h
```

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\*

\* AXP management routines

\*/

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gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/axp.h

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<tr class="even"><td class="entry"><a class="el"  
href="structbcm\_\_plp\_\_base\_\_t\_\_secy\_\_sa\_\_e\_\_t.html#a6f78468eb0dbc6aea2888df9544b9bc7">confidentiality\_of  
fset</a></td><td class="entry"><a class="el"

href="structbcm\_\_plp\_\_base\_\_t\_\_secy\_\_sa\_\_e\_\_t.html">bcm\_plp\_base\_t\_secy\_sa\_e\_t</a></td><td class="entry"></td></tr>

Found in path(s):

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- \*
- \* File: boot.h
- \* Purpose: Boot definitions
- \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/boot.h  
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$Id$
*/

```

Found in path(s):

```

* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_pm_if_doc.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/bcm_pm_if/bcm_pm_if_doc.h
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```

```

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\*

\* File: socdma.h

\* Purpose: Maps out structures used for DMA operations and  
\* exports routines.

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/dma.h

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\*

\* \$Id: seahawks\_common.c \$

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 \*  
 \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/seahawks\_reference\_app/seahawks\_common.c  
 No license file was found, but licenses were detected in source scan.

```
<LI><OBJECT type="text/sitemap"><param name="Name" value="confidentiality_offset"><param name="Local"
value="structbcm__plp__base__t__secy__sa__ca__t.html#aa2c876827f8a8dfa4c09a43182963529"><param
name="ImageNumber" value="11"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Name" value="confidentiality_offset"><param name="Local"
value="structbcm__plp__base__t__secy__sa__e__t.html#a6f78468eb0dbc6aea2888df9544b9bc7"><param
name="ImageNumber" value="11"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Name" value="confidentiality_offset"><param name="Local"
value="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44"><param
name="ImageNumber" value="11"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Name" value="confidentiality_offset"><param name="Local"
value="structbcm__plp__base__t__secy__sa__e__t.html#a6f78468eb0dbc6aea2888df9544b9bc7"><param
name="ImageNumber" value="11"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Name" value="confidentiality_offset"><param name="Local"
value="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44"><param
name="ImageNumber" value="11"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Name" value="confidentiality_offset"><param name="Local"
value="structbcm__plp__base__t__secy__sa__ca__t.html#aa2c876827f8a8dfa4c09a43182963529"><param
```

name="ImageNumber" value="11"></OBJECT>

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/html/index.hhc

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/DriverFramework/Device\_API/incl/device\_mgmt.h

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\* \$Id: phyctrl.h,v 1.170 2013/08/02 02:38:35 mpall Exp \$

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\*

\* File: phyctrl.h

\*

\* Data structures and function prototypes for PHY register access.

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phyctrl.h

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<tr class="memitem:a6f78468eb0dbc6aea2888df9544b9bc7"><td class="memItemLeft" align="right" valign="top">unsigned char&#160;</td><td class="memItemRight" valign="bottom"><a class="el" href="structbcm\_\_plp\_\_base\_\_t\_\_secy\_\_sa\_\_e\_\_t.html#a6f78468eb0dbc6aea2888df9544b9bc7">confidentiality\_offset</a></td></tr>

<td class="memname">unsigned char bcm\_plp\_base\_t\_secy\_sa\_e\_t::confidentiality\_offset</td>

<p>true - enable confidentiality protection<br/>

false - disable confidentiality protection </p>

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/html/structbcm\_\_plp\_\_base\_\_t\_\_secy\_\_sa\_\_e\_\_t.html

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 \*  
 \* File: types.h  
 \* Purpose:  
 \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/types.h  
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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/src/eip160\_hw\_interface.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_eip201.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/src/eip160\_device.c  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP217/src/eip217\_level0.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_eip62.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_eip217.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/src/eip62\_level0.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_eip160.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_hwpal.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_hwpal\_ext.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/src/eip160\_internal.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/src/c\_eip62.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_list.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/include/cs\_hwpal\_umdevxs.h  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/src/c\_eip160.h  
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\* Driver utility routines

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/util.h

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\*

\* File: mos\_msg\_common.h

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/shared/mos\_msg  
\_common.h

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```
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*  
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```

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/phy542xx\_cfg\_seq.c  
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\*

\* ISM management routines

\*/

Found in path(s):

\*/opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ism.h

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- \*
- \* This file defines common network port modes.
- \*
- \* Its contents are not used directly by applications; it is used only
- \* by header files of parent APIs which need to define port modes.
- \*/

Found in path(s):

\*/opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/portmode.h

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```
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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sdk\_config.h  
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\*

\* File: defs.h

\* Purpose: Basic defines for system and chips

\* This should be included before all other SOC include

\* files to make sure BCM\_xxxx is defined for them.

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/defs.h

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/devids.h  
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\* \$Id: phy\_mac\_ctrl.h,v 1.4 2011/05/22 23:36:07 iakramov Exp \$  
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\* File: rx.h

\* Purpose: Packet Receive Reason Types shared between BCM and SOC layers

\*/

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\*

\* File: counter.h

\* Purpose: Defines map of counter register addresses, as well

\* as structures and routines for driver management of  
\* packet statistics counters.  
\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/counter.h  
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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/seahawks\_reference\_app/seahawks\_macsec\_enable.c  
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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/DriverFramework/CLib\_Abstraction\_API/incl/cl  
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\*

\* File: avl.h

\* Purpose: Defines a generic AVL tree data structure.

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/avl.h

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\*

\* This file defines common network port modes.

\*

\* Its contents are not used directly by applications; it is used only  
\* by header files of parent APIs which need to define port modes.

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/port\_ability.h

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```

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 *
 * File: enumgen.h
 * Purpose: Defines a set of Macros for managing enums and associated
 *          string arrays.
 */

```

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/enumgen.h  
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\* File: ll.h

\* Purpose: Link Layer interface (MAC and PHY)

\*/

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/src/eip160\_secy.c

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/incl/eip160\_types.h

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/imacsec/Kit/EIP160/src/eip160\_level0.h

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- \*
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\*/

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/make/lib.mk  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/make/maketools.mk  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/make/config.mk  
\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/make/rules.mk  
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/\*

\* File: soc/dcb.h

\* Purpose: Define dma control block (DCB) operations

\* A uniform set of operations is defined here and loaded

\* into SOC\_CONTROL during initialization.

\*/

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\$Id\$

\*/

/\*\* true - enable confidentiality protection\n

false - disable confidentiality protection \*/

/\*\* true - enable confidentiality protection (AES-GCM/CTR operation)\n

false - disable confidentiality protection (AES-GMAC operation) \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_plp\_base\_t\_sec/bcm\_base\_t\_common\_sec\_defines.h

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/dox/bcm\_base\_t\_common\_sec\_defines.h

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\* \$Id: phy\_mac\_ctrl.c,v 1.5 2012/06/05 20:51:36 raphy Exp \$

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gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/phy\_mac\_ctrl.c

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```
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*
* $Id: phymod_definitions.h,v 1.2.2.12 2013/09/03 06:54:51 dayad Exp $
*
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*
*
* Phymod external definitions
*
*/
```

Found in path(s):

```
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_definitions.h
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*****/
```

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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/DriverFramework/Basic_Defs_API/incl/basic_de
fs.h
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/mkdoc
```

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/doc/Makefile  
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 \* Basic type definitions.  
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- \*
- \* BSL data types and macros
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\*

\* File: sbusdma.h

\* Purpose: Maps out structures used for SBUSDMA operations and  
\* exports routines.

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/sbusdma.h

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\*  
 \* File:     phyident.h  
 \* Purpose:   Basic defines for PHY Model/OUI/Rev for PHY identification.  
 \* Note:     This header file is for PHY driver module. Should not include  
 \*           this header file in SOC or BCM layers.  
 \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/phyident.h  
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```
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- \*
- \* Generic FIFO allocation and maintenance
- \*/

Found in path(s):

- \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
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```
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\*

\* XGS internal PHY read function with AER support.

\*

\* This function accepts a 32-bit PHY register address and will

\* properly configure clause 45 DEVAD and XAUI lane access.

\* Please see phymod\_reg.h for additional information.

\*

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIS\_v\_1\_2/SHWK\_1\_2/phymod/acc/phymod\_tsc\_iblk.c

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 \*/

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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/pkt.h  
 \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
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 \*  
 \* File: libc.h  
 \* Purpose: Some C library functions to remove dependencies  
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 \*  
 \* The compile-time flag -DRTOS\_STRINGS should be used if your RTOS  
 \* supports the standard <string.h> routines. The RTOS library or  
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 \* efficient than the stand-in versions below.  
 \*/

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 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/libc.h  
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\*

\* File: phyreg.h

\*

\* Data structures and function prototypes for PHY register access.

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
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*
* Port Bitmap Macros
*/
```

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\*

\* File: maxdef.h

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/maxdef.h

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\* File:     phycl.h

\* Purpose:   Data structures and function prototypes for PHY configuration.

\* Note:     This header file is for PHY driver module. Should not include

\*           this header file in SOC or BCM layers except

\*           soc/common/phycl.c

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phy/phycl.h

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 \*  
 \*  
 \* DO NOT EDIT THIS FILE!  
 \*  
 \*/

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/chip/phy542xx.h  
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\*

\* This file contains structure and routine declarations for the  
\* Switch-on-a-Chip Driver.

\*

\* This file also includes the more common include files so the  
\* individual driver files don't have to include as much.

\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
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 \*  
 \* Chip symbol table definitions.  
 \*/

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\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/include/phymod/phymod\_symbols.h  
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 \*  
 \* File: register.h  
 \* Purpose: Base definitions for register types  
 \* Requires:  
 \*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
 gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/soc/register.h  
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\*

\* This file defines gport (generic port) parameters. The gport is useful  
\* for specifying the following types of identifiers:

\* LOCAL : port on the local unit  
\* MODPORT : {module ID, port} pair  
\* TRUNK : trunk ID  
\* PROXY : {module ID, port} pair employed in proxy operations  
\* BLACK\_HOLE : identifier indicating drop destination  
\* LOCAL\_CPU : identifier indicating local CPU destination  
\* MPLS\_PORT : L2 MPLS virtual-port (VPLS/VPWS)  
\* SUBPORT\_GROUP : Subport group  
\* SUBPORT\_PORT : Subport virtual-port

- \* UCAST\_QUEUE\_GROUP : Group of unicast COSQs
- \* MCAST\_QUEUE\_GROUP : Group of multicast COSQs
- \* UCAST\_SUBSCRIBER\_QUEUE\_GROUP : Group of 64K subscriber unicast COSQs
- \* MCAST\_SUBSCRIBER\_QUEUE\_GROUP : Group of 64K subscriber multicast COSQs
- \* MCAST : distribution set identifier
- \* SCHEDULER : COSQ scheduler
- \* DEVPORT : {device ID, port} pair (ports on devices without a module ID)
- \* SPECIAL : application special value (invalid in BCM APIs)
- \* MIRROR : Mirror (modport & encapsulation) for mirrored traffic.
- \* MIM\_PORT : MIM virtual-port
- \* VLAN\_PORT : VLAN virtual-port
- \* WLAN\_PORT : WLAN virtual-port
- \* TRILL\_PORT : TRILL virtual-port
- \* NIV\_PORT : NIV virtual-port
- \* EXTENDER\_PORT : Extender virtual-port
- \* MAC\_PORT : MAC virtual-port
- \* TUNNEL : Tunnel ID
- \* MULTIPATH : Multipath shaper
- \*
- \* This header requires that the uint32 type be defined before inclusion.
- \* Using <sal/types.h> is the simplest (and recommended) way of doing this.
- \*
- \* Its contents are not used directly by applications; it is used only
- \* by header files of parent APIs which need to define gport parameters.
- \*
- \* The following macros are made available. All have names starting
- \* with \_SHR\_, which have been elided from this list:
- \*
- \* Constants or Expressions suitable for assignment:
- \* GPORT\_NONE gport initializer
- \* GPORT\_INVALID invalid gport identifier
- \* GPORT\_BLACK\_HOLE black-hole gport identifier
- \* GPORT\_LOCAL\_CPU local CPU gport identifier
- \*
- \* Predicates: (return 0 or 1, suitable for using in if statements)
- \* GPORT\_IS\_SET is the gport set?
- \* GPORT\_IS\_LOCAL is the gport a local port type?
- \* GPORT\_IS\_MODPORT is the gport a modid/port type?
- \* GPORT\_IS\_TRUNK is the gport a trunk type?
- \* GPORT\_IS\_BLACK\_HOLE is the gport a black-hole type?
- \* GPORT\_IS\_LOCAL\_CPU is the gport a local CPU type?
- \* GPORT\_IS\_MPLS\_PORT is the gport a MPLS port type?
- \* GPORT\_IS\_SUBPORT\_GROUP is the gport a subport group type?
- \* GPORT\_IS\_SUBPORT\_PORT is the gport a subport port type?
- \* GPORT\_IS\_UCAST\_QUEUE\_GROUP is the gport a unicast group type?
- \* GPORT\_IS\_UCAST\_SUBSCRIBER\_QUEUE\_GROUP is the gport a subscriber unicast group type?
- \* GPORT\_IS\_MCAST is the gport a multicast set type?
- \* GPORT\_IS\_MCAST\_QUEUE\_GROUP is the gport a multicast queue group type?

- \* GPORT\_IS\_MCAST\_SUBSCRIBER\_QUEUE\_GROUP is the gport a multicast subscriber queue group type?
- \* GPORT\_IS\_SCHEDULER is the gport a scheduler type?
- \* GPORT\_IS\_DEVPORT is the gport a devid/port type?
- \* GPORT\_IS\_SPECIAL is the gport a special type?
- \* GPORT\_IS\_MIRROR is the gport a mirror destination type?
- \* GPORT\_IS\_MIM\_PORT is the gport a MIM port type?
- \* GPORT\_IS\_VLAN\_PORT is the gport a VLAN port type?
- \* GPORT\_IS\_WLAN\_PORT is the gport a WLAN port type?
- \* GPORT\_IS\_TRILL\_PORT is the gport a TRILL port type?
- \* GPORT\_IS\_NIV\_PORT is the gport a NIV port type?
- \* GPORT\_IS\_EXTENDER\_PORT is the gport an Extender port type?
- \* EXTENDER\_GPORT\_IS\_PORT is the extender gport a port subtype?
- \* EXTENDER\_GPORT\_IS\_FORWARD is the extender gport a port forward?
- \* EXTENDER\_GPORT\_IS\_ENCAP is the extender gport a port encaps?
- \* GPORT\_IS\_MAC\_PORT is the gport a MAC port type?
- \* GPORT\_IS\_TUNNEL is the gport a tunnel type?
- \* GPORT\_IS\_CHILD is the gport a child port type?
- \* GPORT\_IS\_EGRESS\_GROUP is the gport a egress group type?
- \* GPORT\_IS\_EGRESS\_CHILD is the gport a egress child type?
- \* GPORT\_IS\_EGRESS\_MODPORT is the gport a egress modport type?
- \* COSQ\_GPORT\_IS\_MULTIPATH is the gport a multipath type?
- \*
- \* Statements: (cannot be used as a predicate)
- \* GPORT\_LOCAL\_SET set a gport local port type and value
- \* GPORT\_LOCAL\_GET get a port value from a local gport
- \* GPORT\_LOCAL\_CPU\_SET set a gport local CPU port type and value
- \* GPORT\_LOCAL\_CPU\_GET get a CPU port value from a local gport
- \* GPORT\_MODPORT\_SET set a gport modid/port type and values
- \* GPORT\_MODPORT\_MODID\_GET get a modid value from a modport gport
- \* GPORT\_MODPORT\_PORT\_GET get a port value from a modport gport
- \* GPORT\_TRUNK\_SET set a gport trunk type and value
- \* GPORT\_TRUNK\_GET get a trunk\_id value from a trunk gport
- \* GPORT\_MPLS\_PORT\_ID\_SET set a MPLS ID type and value
- \* GPORT\_MPLS\_PORT\_ID\_GET get a MPLS ID from a MPLS gport
- \* GPORT\_SUBPORT\_GROUP\_SET set a subport group type and value
- \* GPORT\_SUBPORT\_GROUP\_GET get a subport group ID from a gport
- \* GPORT\_SUBPORT\_PORT\_SET set a subport port type and value
- \* GPORT\_SUBPORT\_PORT\_GET get a subport port ID from a gport
- \* GPORT\_SCHEDULER\_SET set a scheduler type and value
- \* GPORT\_SCHEDULER\_GET get a scheduler ID from a gport
- \* GPORT\_DEVPORT\_SET set a gport devid/port type and values
- \* GPORT\_DEVPORT\_DEVID\_GET get a devid value from a devport gport
- \* GPORT\_DEVPORT\_PORT\_GET get a port value from a devport gport
- \* GPORT\_UCAST\_QUEUE\_GROUP\_SET set a queue group type and value
- \* GPORT\_UCAST\_QUEUE\_GROUP\_GET get a queue group ID from a gport
- \* GPORT\_MCAST\_SET set a mcast dist set and value
- \* GPORT\_MCAST\_GET get an mcast dist set from a gport
- \* GPORT\_MCAST\_DS\_ID\_SET set an mcast DS ID and value

- \* GPORT\_MCAST\_DS\_ID\_GET      get an mcast DS ID from a gport
- \* GPORT\_MCAST\_QUEUE\_GROUP\_SET   set an mcast queue group type and value
- \* GPORT\_MCAST\_QUEUE\_GROUP\_GET   get an mcast queue group ID from a gport
- \* GPORT\_MCAST\_QUEUE\_GROUP\_SYSQID\_SET   set an mcast queue group system queue ID
- \* GPORT\_MCAST\_QUEUE\_GROUP\_SYSPORTID\_GET   get an mcast queue group system port ID
- \* GPORT\_MCAST\_QUEUE\_GROUP\_QID\_GET   get an mcast queue group queue ID
- \* GPORT\_UCAST\_QUEUE\_GROUP\_SYSQID\_SET   get a unicast queue group system queue ID
- \* GPORT\_UCAST\_QUEUE\_GROUP\_SYSPORTID\_GET   get a unicast queue group system port ID
- \* GPORT\_UCAST\_QUEUE\_GROUP\_QID\_GET   get a unicast queue group queue ID
- \* GPORT\_UCAST\_SUBSCRIBER\_QUEUE\_GROUP\_QID\_SET   set a ucast subscriber queue group queue id
- \* GPORT\_UCAST\_SUBSCRIBER\_QUEUE\_GROUP\_QID\_GET   get a ucast subscriber queue group queue id
- \* GPORT\_MCAST\_SUBSCRIBER\_QUEUE\_GROUP\_QID\_SET   set an mcast subscriber queue group queue id
- \* GPORT\_MCAST\_SUBSCRIBER\_QUEUE\_GROUP\_QID\_GET   get an mcast subscriber queue group queue id
- \* GPORT\_SPECIAL\_SET            set a gport special type and value
- \* GPORT\_SPECIAL\_GET            get a value from a special gport
- \* GPORT\_MIRROR\_SET            set a gport mirror type and value
- \* GPORT\_MIRROR\_GET            get a value from a mirror gport
- \* GPORT\_MIM\_PORT\_ID\_SET        set a MIM ID type and value
- \* GPORT\_MIM\_PORT\_ID\_GET        get a MIM ID from a Mim gport
- \* GPORT\_VLAN\_PORT\_ID\_SET       set a VLAN port ID type and value
- \* GPORT\_VLAN\_PORT\_ID\_GET       get a VLAN port ID from a VLAN gport
- \* GPORT\_WLAN\_PORT\_ID\_SET       set a WLAN ID type and value
- \* GPORT\_WLAN\_PORT\_ID\_GET       get a WLAN ID from a WLAN gport
- \* GPORT\_TRILL\_PORT\_ID\_SET       set a TRILL ID type and value
- \* GPORT\_TRILL\_PORT\_ID\_GET       get a TRILL ID from a Trill gport
- \* GPORT\_NIV\_PORT\_ID\_SET        set a NIV ID type and value
- \* GPORT\_NIV\_PORT\_ID\_GET        get a NIV ID from a NIV gport
- \* EXTENDER\_GPORT\_PORT\_SET      set an Extender type, Port subtype and ID value
- \* EXTENDER\_GPORT\_FORWARD\_SET   set an Extender type, Forward subtype and ID value
- \* EXTENDER\_GPORT\_ENCAP\_SET     set an Extender type, Encap subtype and ID value
- \* GPORT\_EXTENDER\_PORT\_ID\_SET    same as EXTENDER\_GPORT\_PORT\_SET for backward compatability
- \* GPORT\_EXTENDER\_PORT\_ID\_GET    get an Extender ID from an Extender gport
- \* GPORT\_MAC\_PORT\_ID\_SET        set a MAC ID type and value
- \* GPORT\_MAC\_PORT\_ID\_GET        get a MAC ID from an MAC gport
- \* GPORT\_TUNNEL\_ID\_SET          set a gport tunnel type and value
- \* GPORT\_TUNNEL\_ID\_GET          get a tunnel\_id value from a tunnel gport
- \* GPORT\_CHILD\_SET              set a child gport
- \* GPORT\_CHILD\_MODID\_GET        get a child gport modid
- \* GPORT\_CHILD\_PORT\_GET         get a child gport port
- \* GPORT\_EGRESS\_GROUP\_SET       set an egress group
- \* GPORT\_EGRESS\_GROUP\_GET       get an egress group
- \* GPORT\_EGRESS\_GROUP\_MODID\_GET   get an egress group modid
- \* GPORT\_EGRESS\_CHILD\_SET       set an egress child gport
- \* GPORT\_EGRESS\_CHILD\_MODID\_GET   get an egress child gport modid
- \* GPORT\_EGRESS\_CHILD\_PORT\_GET   get an egress child gport port
- \* GPORT\_EGRESS\_MODPORT\_SET     set an egress modport
- \* GPORT\_EGRESS\_MODPORT\_MODID\_GET   get an egress modport modid
- \* GPORT\_EGRESS\_MODPORT\_PORT\_GET   get an egress modport port

\* GPORT\_MULTIPATH\_SET        set an multipath port id  
\* GPORT\_MULTIPATH\_GET        get an multipath port id  
\*/

Found in path(s):

\* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/phymod/chip/seahawks/tier1/legacy/aux/shared/gport.h  
No license file was found, but licenses were detected in source scan.

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- \* /opt/cola/permits/1238835855\_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks\_Stand\_Alone\_APIs\_v\_1\_2/SHWK\_1\_2/bcm\_pm\_if/bcm\_pm\_if\_api.c

## 1.306 ptyprocess 0.6.0 r0

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## 1.308 libdb 5.3.28

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# 1.310 popt 1.18 r0

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## 1.311 util-linux 2.36 r0

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NR START END SECTORS SIZE NAME UUID

1 32 7679 7648 3.7M 8f8378c0-01  
2 7680 16383 8704 4.3M 8f8378c0-02  
5 7936 12799 4864 2.4M  
6 12544 16127 3584 1.8M

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```
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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.312 tpm2-abrmd 2.3.3 r0

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+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of

Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.



Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(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.

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

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#####

## Constant-time SSSE3 AES core implementation.  
## version 0.1  
##  
## By Mike Hamburg (Stanford University), 2009  
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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# 1.319 python3-dnf 4.4.2

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@c Local Variables:  
@c ispell-local-pdict: "ispell-dict"  
@c End:

## 1.321 sg3-utils 1.45 r0

### 1.321.1 Available under license :

Upstream Authors: Douglas Gilbert <dgilbert at interlog dot com>,  
Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,  
Peter Allworth <linsol at zeta dot org dot au>,  
James Bottomley <jejb at parisc-linux dot org>,  
Lars Marowsky-Bree <lmb at suse dot de>,  
Kurt Garloff <garloff at suse dot de>,  
Grant Grundler <grundler at parisc-linux dot org>,  
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10th April 2012

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## 1.322 bash4 4.2 r6

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From spcedt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: spcedt@armory.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP

(8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)

Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <spcedt@armory.com>  
Date: Tue, 9 May 1995 22:33:12 -0700  
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>  
"ksh scripts" (May 9, 1:36pm)  
X-Www: <http://www.armory.com/~spcedt/>  
X-Mailer: Mail User's Shell (7.2.5 10/14/92)  
To: chet@po.cwru.edu  
Subject: Re: ksh scripts  
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on <ftp.armory.com>; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
```

-- End of excerpt from Chet Ramey  
From: friedman@cli.com Thu May 25 12:19:06 1995  
Flags: 10  
Return-Path: friedman@cli.com  
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)  
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)  
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)  
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)  
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)  
id AA27213; Thu, 25 May 95 11:18:25 CDT  
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT  
Message-Id: <9505251618.AA16031@tepui.cli.com>  
From: friedman@gnu.ai.mit.edu (Noah Friedman)  
To: chet@po.cwru.edu  
Subject: Bash scripts  
Reply-To: friedman@gnu.ai.mit.edu  
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400  
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>  
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on  
>the FSF machines (naughty, I know), and I was wondering if you'd let  
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in  
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and  
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995
12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
```

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

-----

## 1.323 six 1.15.0 r0

### 1.323.1 Available under license :

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

Marc Abramowitz

immerrr again

Alexander Artemenko

Aymeric Augustin

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## 1.324 libcom-err 1.45.6

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

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

all:: image

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

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

image: \$(BSD\_LIB)

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

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



install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

clean::

\$(RM) -rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

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

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

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

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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

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-

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Theodore Ts'o  
23-June-2007

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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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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## By Mike Hamburg (Stanford University), 2009

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## 1.327 base-files 3.0.14 r89

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)

Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)

Andrew Lumsdaine ()

Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)

Beman Dawes (bdawes@acm.org)

Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)

Brian Osman (osman -at- vvisions.com) (See CVS log)

Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)

Bruno da Silva de Oliveira (bruno - at - esss.com.br)

Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)

Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)

Dan Gohman (djg -at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)

Dan Nuffer (dan -at- nuffer.name)

Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)

Daniel Nuffer (dan -at- nuffer.name)

Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)

Daryle Walker (darylew - at - hotmail.com)

Dave Abrahams (dave@boost-consulting.com)

Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)

David Abrahams (dave@boost-consulting.com)

Dietmar Kuehl (dietmar\_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)

Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)

Dr John Maddock (john - at - johnmaddock.co.uk)

Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)

Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)

Eric Friedman (ebf@users.sourceforge.net)

Eric Niebler (eric@boost-consulting.com)

Fernando Cacciola (fernando\_cacciola@ciudad.com.ar)

Fernando Luis Cacciola Carballal (fernando\_cacciola@ciudad.com.ar)

Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)

Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)

Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)

Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUF.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)

Gottfried Ganauge (Gottfried.Ganssaue -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssaue)  
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)  
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)  
Gunter Winkler (gunter.winkler -at- unbw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)  
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)  
Herve Bronnimann (hbr -at- poly.edu)  
Herv Brnnimann (hbr -at- poly.edu)  
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)  
Howard Hinnant (hinnant -at- twcnv.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)  
Hubert Holin (hubert\_holin -at- users.sourceforge.net)  
Indiana University ()  
Itay Maman (imaman -at- users.sourceforge.net)  
Jaakko Jrvi (jajarvi -at- osl.iu.edu)  
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)  
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)  
Jens Maurer (Jens.Maurer@gmx.net)  
Jeremy G Siek (jsiek@osl.iu.edu)  
Jeremy Siek (jsiek@osl.iu.edu)  
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)  
John Bandela (jbandela-at-ufl.edu)  
John Maddock (john - at - johnmaddock.co.uk)  
John R Bandela (jbandela-at-ufl.edu)  
Jonathan Turkanis (turkanis -at- coderage dot com)  
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)  
Kevlin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)  
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)  
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)  
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)  
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)  
Mac Murrett (mmurrett -at- mac.com)  
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)  
Michael Glassford (glassfordm - at - hotmail.com)  
Michael Stevens (Michael.Stevens - at - epost.de)  
Multi Media Ltd. (pdimov@mmltd.net)  
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)  
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)  
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)  
Pavol Droba (droba -at- topmail.sk)  
Peter Dimov (pdimov@mmltd.net)  
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)  
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)  
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)  
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)  
Robert Ramey (ramey@www.rrsd.com)  
Roland Richter (roland -at- flil.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)  
Roland Schwarz (roland.schwarz -at- chello.at)

Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)  
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)  
Stefan Seefeld (seefeld -at- sympatico.ca)  
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)  
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Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)  
Thorsten Jrgen Ottosen (nesotto - at - cs.auc.dk)  
Thorsten Ottosen (nesotto - at - cs.auc.dk)  
Toon Knapen (toon dot knapen - at - fft.be)  
Trustees of Indiana University ()  
University of Notre Dame ()  
Vladimir Prus (ghost@cs.msu.su)  
William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)  
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)  
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

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////

[#mpl]

# MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

The header ``<boost/mp11/mpl.hpp>``, when included, defines the necessary support infrastructure for ``mp_list`` and ``std::tuple`` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: ``mpl.hpp`` is not included by ``<boost/mp11.hpp>``.

It's also possible to only enable support for ``mp_list`` by including ``<boost/mp11/mpl_list.hpp>``, and for ``std::tuple`` by including ``<boost/mp11/mpl_tuple.hpp>``. This may be required because some libraries, such as Boost.Fusion, contain their own MPL support for ``std::tuple``, which conflicts with Mp11's one.

<!DOCTYPE html>

<html>

<head></head>

```
<body>
  <h3>
    Copyright Test
  </h3>
  <p class="copyright">
    1963, 1964, 1965 Jane Doe
  </p>
  <p class="copyright">
    2018 Joe Blow, John Coe
  </p>
  <p class="copyright">
    1977, 1985 Someone else
  </p>
</body>
</html>
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-->
```

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
```

```
<articleinfo>
  <copyright>
    <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
  </copyright>
  <copyright>
    <year>2018</year> <holder>Joe Blow, John Coe</holder>
  </copyright>
  <copyright>
    <year>1977</year> <year>1985</year> <holder>Someone else</holder>
  </copyright>
</articleinfo>
</article>
Copyright Louis Dionne 2013-2017
```

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@end enumerate

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@item

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@enumerate a

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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.)

@item

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.

@item

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



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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@subheading END OF TERMS AND CONDITIONS

@page

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@smallexample

@var{one line to give the library's name and an idea of what it does.}

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USA.  
@end smallexample

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Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,



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@end iftex

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@page

@heading Appendix: How to Apply These Terms to Your New Programs

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

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

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If the program is interactive, make it output a short notice like this

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@smallexample

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

@end smallexample

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@example

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

@end example

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# 1.336 npth 1.5

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gevent/libuv/\_corecffi\_source.c  
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Originally based on code from <https://github.com/veege/guv>

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;\*!;\_>KfBqxY(F|0.Ve%S61opMG` \YfRXx+sS|11np#\_(~\*uM%S61opMG` \YfRXvY[R+t[ BS=)d  
;\*!;\_>KfBqxY(F|0.Ve%S61opMG` \YfRXvY[R+t[ BS=)d ;\*!;\_>KfBqxY(F|0.Ve%Q?f\_ {+T@Uo)2fgYZ

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```

```
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;\*!;.\_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d

;\*!;.\_>KfBqxYm+sS|11np#\_(~\*'uM%S61opMG`YfRXvY[R+t[ BS=)d

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```
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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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\*

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\* Jamie Beverly

\* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT

\* Jan-Pieter Cornet ( johnpc ) - 2012-03-23 03:25:52 PDT

\* chrysn@fsfe.org

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  - \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
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- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
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- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <<https://dbrgn.ch/>>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module

- \* Configurable cipher suites in pyopenssl contrib module
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  - \* Account retries on proxy errors
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
  - \* Use the platform-specific CA certificate locations
- \* Josh Schneier <https://github.com/jschneier>
  - \* HTTPHeaderDict and associated tests and docs
  - \* Bugfixes, docs, test coverage
- \* Tahia Khan <http://tahia.tk/>
  - \* Added Timeout examples in docs
- \* Arthur Grunseid <https://grunseid.com>
  - \* source\_address support and tests (with https://github.com/bui)
- \* Ian Cordasco <graffatcolmingov@gmail.com>
  - \* PEP8 Compliance and Linting
  - \* Add ability to pass socket options to an HTTP Connection
- \* Erik Tollerud <erik.tollerud@gmail.com>
  - \* Support for standard library io module.
- \* Krishna Prasad <kprasad.iitd@gmail.com>
  - \* Google App Engine documentation
- \* Aaron Meurer <asmeurer@gmail.com>
  - \* Added Url.url, which unparses a Url
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
  - \* Bugfixes
- \* Benjamin Meyer <bm\_witness@yahoo.com>
  - \* Security Warning Documentation update for proper capture
- \* Shivan Sornarajah <github@sornars.com>
  - \* Support for using ConnectionPool and PoolManager as context managers.
- \* Alex Gaynor <alex.gaynor@gmail.com>
  - \* Updates to the default SSL configuration
- \* Tomas Tomecek <tomecek@redhat.com>
  - \* Implemented generator for getting chunks from chunked responses.
- \* tlynn <https://github.com/tlynn>
  - \* Respect the warning preferences at import.



- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
- \* Evan Meagher <https://evanmeagher.net>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
- \* John Vandenberg <jayvdb@gmail.com>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
- \* Bugfix related to reusing connections in indeterminate states.
- \* Ville Skytt <ville.skytta@iki.fi>
- \* Logging efficiency improvements, spelling fixes, Travis config.
- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
- \* Jess Shapiro <jesse@jesseshapiro.net>
- \* Various character-encoding fixes/tweaks

- \* Disabling IPv6 DNS when IPv6 connections not supported
- \* David Foster <<http://dafoster.net/>>
  - \* Ensure order of request and response headers are preserved.
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
  - \* Added connection pool keys by scheme
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
  - \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto:nate.prewitt@gmail.com)>
  - \* Ensure timeouts are not booleans and greater than zero.
  - \* Fixed infinite loop in ``stream`` when amt=None.
  - \* Added length\_remaining to determine remaining data to be read.
  - \* Added enforce\_content\_length to raise exception when incorrect content-length received.
- \* Seth Michael Larson <[sethmichaellarson@protonmail.com](mailto:sethmichaellarson@protonmail.com)>
  - \* Created selectors backport that supports PEP 475.
- \* Alexandre Dias <[alex.dias@smarkets.com](mailto:alex.dias@smarkets.com)>
  - \* Don't retry on timeout if method not in whitelist
- \* Moinuddin Quadri <[moin18@gmail.com](mailto:moin18@gmail.com)>
  - \* Lazily load idna package
- \* Tom White <[s6yg1ez3@mail2tor.com](mailto:s6yg1ez3@mail2tor.com)>
  - \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
- \* Tim Burke <[tim.burke@gmail.com](mailto:tim.burke@gmail.com)>
  - \* Stop buffering entire deflate-encoded responses.
- \* Tuukka Mustonen <[tuukka.mustonen@gmail.com](mailto:tuukka.mustonen@gmail.com)>
  - \* Add counter for status\_forcelist retries.
- \* Erik Rose <[erik@mozilla.com](mailto:erik@mozilla.com)>
  - \* Bugfix to pyopenssl vendoring
- \* Wolfgang Richter <[wolfgang.richter@gmail.com](mailto:wolfgang.richter@gmail.com)>
  - \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
- \* Mike Miller <[github@mikeage.net](mailto:github@mikeage.net)>
  - \* Logging improvements to include the HTTP(S) port when opening a new connection
- \* Ioannis Tziakos <[mail@itziakos.gr](mailto:mail@itziakos.gr)>
  - \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
  - \* Update appveyor tox setup to use the 64bit python.

- \* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <<https://www.brucemerry.org.za>>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <<https://github.com/hugovk>>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <<https://github.com/timb07>>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <<https://github.com/jbramleycl>>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>
- \* Remove Authorization header regardless of case when redirecting to cross-site
  
- \* James Meickle <<https://permadeath.com/>>
- \* Improve handling of Retry-After header
  
- \* Chris Jerdonek <chris.jerdonek@gmail.com>
- \* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

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\* /opt/cola/permits/1294739106\_1648246439.37/0/dabeaz-ply-3-11-0-g0f398b7-tar-gz/dabeaz-ply-0f398b7/ply/yacc.py

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# PLY (Python Lex-Yacc)

Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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## Introduction

=====

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

- PLY is very closely modeled after traditional lex/yacc.  
If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides *very* extensive error reporting and diagnostic

information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

#### How to Use

=====

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

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

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

```
import lex
import yacc
```

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

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

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

A simple example is found at the end of this document

## Requirements

=====

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

## Resources

=====

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

<http://www.dabeaz.com/ply>

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

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

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

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

## Acknowledgments

=====

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

The CHANGES file acknowledges those who have contributed patches.

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

## Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common

subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

#### Example

=====

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

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

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

# Tokens

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

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

# Ignored characters
t_ignore = " \t"

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

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



```

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

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

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

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

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

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

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

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

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

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]

```

```

except LookupError:
    print("Undefined name '%s'" % p[1])
    p[0] = 0

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

import ply.yacc as yacc
yacc.yacc()

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

```

## Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to [dave@dabeaz.com](mailto:dave@dabeaz.com).

-- Dave

Found in path(s):

```

* /opt/cola/permits/1294739106_1648246439.37/0/dabeaz-ply-3-11-0-g0f398b7-tar-gz/dabeaz-ply-0f398b7/README.md

```

# 1.344 centos-gpg-keys 8

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<signature of Ty Coon>, 1 April 1990  
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# 1.347 pyasn1 0.4.8 r0

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ASN.1 library for Python

-----  
[!PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)

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Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)  
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

## Features

-----

- \* Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.4 up to Python 3.7
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

## How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures.  
For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id      INTEGER,
  room    [0] INTEGER OPTIONAL,
  house   [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```
```

It is in the spirit of ASN.1 to take abstract data description  
and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you  
can use it along the lines of similar Python type (e.g. ASN.1  
`SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

```
...
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:



```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

#### How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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```

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ASN.1 library for Python

=====

```
.. toctree::
    :maxdepth: 1
```

Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/> or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

\* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

## ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

## ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

## Documentation

```
.. toctree::
: maxdepth: 2

/ pyasn1/contents
```

## Use case

```
.. toctree::
: maxdepth: 2

/ example-use-case
```

## Download & Install

-----

```
.. toctree::  
    :maxdepth: 2
```

/download

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
.. toctree::  
    :maxdepth: 1
```

/changelog

## License

-----

The PyASN1 software is distributed under 2-clause BSD License.

```
.. toctree::  
    :maxdepth: 2
```

/license

## Getting help

-----

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>` \_  
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>` \_ at GitHub.  
Alternatively, you could ask for help at  
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>` \_  
or search  
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>` \_  
mailing list archive.

## Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

\* `ASN.1 - Communication between heterogeneous systems <<http://www.oss.com/asn1/dubuisson.html>>` \_ by

Olivier Dubuisson

\* `ASN.1 Complete <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` \_ by

Prof John Larmouth

Here you can get the official standards which is hard to read:

\* `ITU standards <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>` \_

On the other end of the readability spectrum, here is a quick and sweet write up:

\* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>` \_

by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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\* /opt/cola/permits/1294739938\_1648247859.35/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/tests/compat/\_\_main\_\_.py

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## 1.348 brotli 1.0.6

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## 1.355 python-setuptools 39.2.0

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```
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```

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```
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# 1.362 cryptsetup 2.3.4 r0

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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 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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# 1.366 kmod 25

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## 1.376 libidn 2.3.0 r0

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## 1.378 libssh 2.1.8.0

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# 1.381 py 1.9.0 r0

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# 1.382 v153l0x 1.0.2

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```
/**
*****
* @file DISCO_IOT_53L0A1_Gesture_Tap1.ino
* @author WI6LABS from AST
* @version V1.0.0
* @date 07 July 2017
* @brief Arduino test application for the STMicroelectronics STM32 IOT Discovery Kit
* based on FlightSense and gesture library.
* This application makes use of C++ classes obtained from the C
* components' drivers.
*****
* @attention
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*
*****
*/
```

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\* /opt/cola/permits/1214327956\_1634188763.64/0/stm32duino-vl53l0x-1-0-2-0-g13c23c5-1-tar-gz/stm32duino-VL53L0X-13c23c5/src/vl53l0x\_types.h  
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\*\*\*\*\*

\* @file vl53l0x\_class.cpp

\* @author IMG

\* @version V0.0.1

```

* @date 28-June-2016
* @brief Implementation file for the VL53L0X driver class
*****

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*
*****
*/

```

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VL53L0X-13c23c5/src/vl53l0x_class.cpp

```

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\*\*\*\*\*

\* @file RangeSensor.h

\* @author AST / EST

\* @version V0.0.1

\* @date 13-April-2015

\* @brief This file contains the abstract class describing in general

\* the interfaces of a range sensor

\*\*\*\*\*

\* @attention

\*

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\*\*\*\*\*

\* @file DISCO\_IOT\_53L0A1\_DataLogTerminal.ino

\* @author WI6LABS from AST

\* @version V1.0.0

\* @date 07 July 2017

\* @brief Arduino test application for the STMicroelectronics STM32 IOT Discovery Kit

\* based on FlightSense.

\* This application makes use of C++ classes obtained from the C

\* components' drivers.

\*\*\*\*\*

\* @attention

\*

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\*\*\*\*\*

\* @file DISCO\_IOT\_53L0A1\_Gesture\_Swipe1.ino

\* @author WI6LABS from AST

\* @version V1.0.0

\* @date 07 July 2017

\* @brief Arduino test application for the STMicroelectronics STM32 IOT Discovery Kit

\* based on FlightSense and gesture library.

\* This application makes use of C++ classes obtained from the C

\* components' drivers.

\*\*\*\*\*

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```
/**
*****
* @file   ComponentObject.h
* @author AST
* @version V1.0.0
* @date   April 13th, 2015
* @brief   This file contains the abstract class describing the interface of a
*          generic component.
*****
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## 1.383 python3-setuptools-wheel 39.2.0

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## 1.388 python-dbus 1.2.16 r0

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## 1.389 elfutils-libelf 0.182

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```

<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', ' ')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
      This Source Code Form is subject to the terms of the Mozilla Public
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    </xsl:text>
  </xsl:variable>

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

<!--
- Local variables:
- mode: sgml

```

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-->

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## 1.393 sudo 1.8.29

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

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie

Boardman, Spider  
Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, 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  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen

Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Puentes, Enol  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarer, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs  
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Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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package engine

```
import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/v3/assert"
    is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context formatter.Context
        expected string
    }{
        // Errors
        {
            formatter.Context{Format: "{{InvalidFunction}}"},
            `Template parsing error: template: :1: function "InvalidFunction" not defined`,
        },
    },
}
```

```

{
  formatter.Context{Format: "{{nil}}"},
  `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
},
// Table format
{
  formatter.Context{Format: NewSubscriptionsFormat("table", false)},
  `NUM          OWNER          PRODUCT ID      EXPIRES          PRICING COMPONENTS
1             owner1          productid1      2020-01-01 10:00:00 +0000 UTC  compstring
2             owner2          productid2      2020-01-01 10:00:00 +0000 UTC  compstring
`,
},
{
  formatter.Context{Format: NewSubscriptionsFormat("table", true)},
  `1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
},
{
  formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
  `OWNER
owner1
owner2
`,
},
{
  formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
  `OWNER
owner1
owner2
`,
},
// Raw Format
{
  formatter.Context{Format: NewSubscriptionsFormat("raw", false)},
  `license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring
`,
},

```

```

{
    formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
    `license: id1
license: id2
`,
},
// Custom Format
{
    formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
    `owner1
owner2
`,
},
}

```

```

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

```

```

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
            },
            ComponentsString: "compstring",
        },
        {
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID: "id2",
                Name: "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 20,
                    },
                },
            },
        },
    }
}

```

```

    },
    },
    },
    ComponentsString: "compstring",
    },
}
out := &bytes.Buffer{ }
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
    assert.Error(t, err, testcase.expected)
} else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
            },
            ComponentsString: "compstring",
        },
        {
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID: "id2",
                Name: "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",

```

```

    Value: 20,
  },
},
ComponentsString: "compstring",
},
}
expectedJSONs := []map[string]interface{}{
{
  "Owner":      "owner1",
  "ComponentsString": "compstring",
  "Expires":    "2020-01-01T10:00:00Z",
  "DockerID":   "",
  "Eusa":       nil,
  "ID":         "id1",
  "Start":      nil,
  "Name":       "name1",
  "Num":        float64(1),
  "PricingComponents": []interface{}{
    map[string]interface{}{
      "name": "nodes",
      "value": float64(10),
    },
  },
  "ProductID":      "productid1",
  "ProductRatePlan": "",
  "ProductRatePlanID": "",
  "State":           "",
  "Summary":         "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
  "Owner":      "owner2",
  "ComponentsString": "compstring",
  "Expires":    "2020-01-01T10:00:00Z",
  "DockerID":   "",
  "Eusa":       nil,
  "ID":         "id2",
  "Start":      nil,
  "Name":       "name2",
  "Num":        float64(2),
  "PricingComponents": []interface{}{
    map[string]interface{}{
      "name": "nodes",
      "value": float64(20),
    },
  },
  "ProductID":      "productid2",
  "ProductRatePlan": "",

```

```

    "ProductRatePlanID": "",
    "State": "",
    "Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}

```

```

out := &bytes.Buffer{ }
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
    t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var m map[string]interface{ }
    if err := json.Unmarshal([]byte(line), &m); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
    subscriptions := []licenseutils.LicenseDisplay{
        {Num: 1, Owner: "owner1"},
        {Num: 2, Owner: "owner2"},
    }
    out := &bytes.Buffer{ }
    err := SubscriptionsWrite(formatter.Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
    if err != nil {
        t.Fatal(err)
    }
    for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
        var s string
        if err := json.Unmarshal([]byte(line), &s); err != nil {
            t.Fatal(err)
        }
        assert.Check(t, is.Equal(subscriptions[i].Owner, s))
    }
}

```

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Data model artifacts for Prometheus.

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

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Support for streaming Protocol Buffer messages for the Go language (golang).

[https://github.com/mattproud/golang\\_protobuf\\_extensions](https://github.com/mattproud/golang_protobuf_extensions)

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package engine

```
import (  
    "time"
```

```
    "github.com/docker/cli/cli/command/formatter"  
    "github.com/docker/cli/internal/licenseutils"  
    "github.com/docker/licensing/model"  
)
```

```
const (  
    defaultSubscriptionsTableFormat = "table  
    {{.Num}}\t{{.Owner}}\t{{.ProductID}}\t{{.Expires}}\t{{.ComponentsString}}"  
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
```

```

numHeader      = "NUM"
ownerHeader    = "OWNER"
licenseNameHeader = "NAME"
idHeader       = "ID"
dockerIDHeader  = "DOCKER ID"
productIDHeader = "PRODUCT ID"
productRatePlanHeader = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader     = "START"
expiresHeader    = "EXPIRES"
stateHeader      = "STATE"
eusaHeader       = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}\nname: {{.Name}}\nowner: {{.Owner}}\ncomponents: {{.ComponentsString}}\n`
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{ }
    licenseCtx.Header = map[string]string{
        "Num":      numHeader,
        "Owner":     ownerHeader,
    }

```

```

    "Name":      licenseNameHeader,
    "ID":        idHeader,
    "DockerID":  dockerIDHeader,
    "ProductID": productIDHeader,
    "ProductRatePlan": productRatePlanHeader,
    "ProductRatePlanID": productRatePlanIDHeader,
    "Start":     startHeader,
    "Expires":   expiresHeader,
    "State":     stateHeader,
    "Eusa":      eusaHeader,
    "ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l    licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

```

```

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

```

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package licensing

```
import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"

    "github.com/docker/libtrust"
    "github.com/docker/licensing/lib/errors"
    "github.com/docker/licensing/lib/go-clientlib"
    "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }
}
```

```

keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise

```

```

func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }

    return nil
}

```

```

}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

```

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

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed

// json blob.

```
type CheckResponse struct {
    Expiration    time.Time `json:"expiration"`
    Token         string    `json:"token"`
    MaxEngines    int       `json:"maxEngines"`
    ScanningEnabled bool      `json:"scanningEnabled"`
    Type          string    `json:"licenseType"`
    Tier          string    `json:"tier"`
}
```

// IssuedLicense represents an issued license

```
type IssuedLicense struct {
    KeyID         string `json:"key_id"`
    PrivateKey    string `json:"private_key"`
    Authorization string `json:"authorization"`
}
```

// Valid returns true if the License is syntactically valid, false otherwise

```
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
```

```
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
```

```
    if l.Authorization == "" {
        return false, "empty authorization"
    }
```

```
}
```

```
return true, ""
```

```
}
```

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include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
man/nlist.3bsd  
man/queue.3bsd  
man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd

man/setmode.3bsd  
man/strmode.3bsd  
man/strnstr.3bsd  
man/strtoi.3bsd  
man/strtou.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
src/radixsort.c  
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man/fmtcheck.3bsd

man/humanize\_number.3bsd

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src/expand\_number.c

src/hash/sha512.h

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man/readpassphrase.3bsd

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src/arc4random\_linux.h

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src/arc4random\_uniform.c

src/arc4random\_unix.h

src/arc4random\_win.h

src/closefrom.c

src/getentropy\_aix.c

src/getentropy\_bsd.c

src/getentropy\_hpux.c

src/getentropy\_hurd.c

src/getentropy\_linux.c

src/getentropy\_osx.c

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src/inet\_net\_pton.c

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include/bsd/md5.h

src/hash/md5.c

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Files:

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

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

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|---------|-----------------|------|-------|-------------------------|
| 2.5     | 2.4             | 2006 | PSF   | yes                     |
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| 2.5.3   | 2.5.2           | 2008 | PSF   | yes                     |
| 2.6     | 2.5             | 2008 | PSF   | yes                     |
| 2.6.1   | 2.6             | 2008 | PSF   | yes                     |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1.1 | 2010 | PSF | yes |
| 3.1.3 | 3.1.2 | 2010 | PSF | yes |
| 3.1.4 | 3.1.3 | 2011 | PSF | yes |
| 3.2   | 3.1   | 2011 | PSF | yes |
| 3.2.1 | 3.2   | 2011 | PSF | yes |
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| 1.3 thru 1.5.2 | 1.2             | 1995-1999 | CNRI       | yes                     |
| 1.6            | 1.5.2           | 2000      | CNRI       | no                      |
| 2.0            | 1.6             | 2000      | BeOpen.com | no                      |
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| 2.1            | 2.0+1.6.1       | 2001      | PSF        | no                      |
| 2.0.1          | 2.0+1.6.1       | 2001      | PSF        | yes                     |
| 2.1.1          | 2.1+2.0.1       | 2001      | PSF        | yes                     |
| 2.2            | 2.1.1           | 2001      | PSF        | yes                     |
| 2.1.2          | 2.1.1           | 2002      | PSF        | yes                     |
| 2.1.3          | 2.1.2           | 2002      | PSF        | yes                     |
| 2.2.1          | 2.2             | 2002      | PSF        | yes                     |
| 2.2.2          | 2.2.1           | 2002      | PSF        | yes                     |
| 2.2.3          | 2.2.2           | 2003      | PSF        | yes                     |
| 2.3            | 2.2.2           | 2002-2003 | PSF        | yes                     |
| 2.3.1          | 2.3             | 2002-2003 | PSF        | yes                     |
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| 2.3.3          | 2.3.2           | 2002-2003 | PSF        | yes                     |
| 2.3.4          | 2.3.3           | 2004      | PSF        | yes                     |
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| 2.4.4          | 2.4.3           | 2006      | PSF        | yes                     |
| 2.5            | 2.4             | 2006      | PSF        | yes                     |
| 2.5.1          | 2.5             | 2007      | PSF        | yes                     |
| 2.5.2          | 2.5.1           | 2008      | PSF        | yes                     |
| 2.5.3          | 2.5.2           | 2008      | PSF        | yes                     |
| 2.6            | 2.5             | 2008      | PSF        | yes                     |
| 2.6.1          | 2.6             | 2008      | PSF        | yes                     |
| 2.6.2          | 2.6.1           | 2009      | PSF        | yes                     |
| 2.6.3          | 2.6.2           | 2009      | PSF        | yes                     |
| 2.6.4          | 2.6.3           | 2009      | PSF        | yes                     |
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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| 1.6            | 1.5.2           | 2000      | CNRI       | no                      |
| 2.0            | 1.6             | 2000      | BeOpen.com | no                      |
| 1.6.1          | 1.6             | 2001      | CNRI       | yes (2)                 |
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| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
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| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
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| 3.0   | 2.6   | 2008 | PSF | yes |
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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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# 1.410 systemd-pam 239

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```
set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
```

set style fill solid border -1

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## 1.429 fipscheck 1.4.1

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## 1.434 iperf 3.9 r0

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\* `stdio.c`

\* by Mark Gates <[mgates@nlanr.net](mailto:mgates@nlanr.net)>

\* and Ajay Tirumalla <[tirumala@ncsa.uiuc.edu](mailto:tirumala@ncsa.uiuc.edu)>

\* -----

\* input and output numbers, converting with kilo, mega, giga

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# 1.435 octeon\_pci\_lib 3.1.2

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2 November 2007

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## ANNEX 1 TO OCTEON SDK LICENSE AGREEMENT

### OCTEON SDK LICENSE TYPES

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/rdataclass.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/win32/version.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/pthreads/include/isc/thread.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/txt\_16.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/win32/version.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mf\_4.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccfg/win32/version.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mf\_4.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mb\_7.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/version.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/event.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ptr\_12.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/version.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/opt\_41.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/thread.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mr\_9.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ptr\_12.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/cv/version.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/pthreads/condition.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/eventclass.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/error.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/a\_1.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/boolean.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/pthreads/include/isc/condition.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/cname\_5.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mg\_8.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/thread.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/error.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/hinfo\_13.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/proforma.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mg\_8.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/cname\_5.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/resolv/res\_comp.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/resolv/res\_mkquery.c

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.\"

.\" \$Id: lwres\_getrrsetbyname.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_getrrsetbyname.3

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```
/*
 * msg_eventlib.c - Error messages for evlib
 *
 * January 2007, Vikram Visweswaraiah
 *
 * Copyright (c) 2007 by Cisco Systems, Inc.
 * All rights reserved.
 */
```

Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/msg\_eventlib.c

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 */
```

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/ev\_streams.c

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\*

\* BINOS specific changes to associate memcluster with an evctx

\*

\* March 2014, Aswin Kuppusami

\*/

Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/memcluster\_binos.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/memcluster\_p.h

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/irp\_ho.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/irp\_nw.c

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-->

<!-- \$Id: lwres\_gabn.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_gabn</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_gabnrequest\_render</refname>

<refname>lwres\_gabnresponse\_render</refname>

<refname>lwres\_gabnrequest\_parse</refname>

<refname>lwres\_gabnresponse\_parse</refname>

<refname>lwres\_gabnresponse\_free</refname>

<refname>lwres\_gabnrequest\_free</refname>

<refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>

</refnamediv>

<refsynopsisdiv>

<functsynopsis>

<functsynopsisinfo>#include <lwres/lwres.h></functsynopsisinfo>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_gabnrequest\_render</function></funcdef>

<paramdef>lwres\_context\_t \*ctx</paramdef>

<paramdef>lwres\_gabnrequest\_t \*req</paramdef>

<paramdef>lwres\_lwpacket\_t \*pkt</paramdef>

<paramdef>lwres\_buffer\_t \*b</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_gabnresponse\_render</function></funcdef>

<paramdef>lwres\_context\_t \*ctx</paramdef>

<paramdef>lwres\_gabnresponse\_t \*req</paramdef>

```

<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_parse</function></funcdef>
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<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
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<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
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<funcprototype>
<funcdef>
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<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_gabnrequest_free</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
</functsynopsis>
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<refsect1>
<title>DESCRIPTION</title>
<para>

```

These are low-level routines for creating and parsing  
lightweight resolver name-to-address lookup request and  
response messages.

</para><para>

There are four main functions for the getaddrbyname opcode.

One render function converts a getaddrbyname request structure &mdash;

<type>lwres\_gabnrequest\_t</type> &mdash;

to the lightweight resolver's canonical format.

It is complemented by a parse function that converts a packet in this canonical format to a getaddrbyname request structure.

Another render function converts the getaddrbyname response structure &mdash;  
<type>lwres\_gabnresponse\_t</type> &mdash;  
to the canonical format.

This is complemented by a parse function which converts a packet in canonical format to a getaddrbyname response structure.

</para>

<para>

These structures are defined in

<filename>&lt;lwres/lwres.h&gt;</filename>.

They are shown below.

<programlisting>

```
#define LWRES_OPCODE_GETADDRSBYNAME    0x00010001U
```

```
typedef struct lwres_addr lwres_addr_t;
```

```
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;
```

```
typedef struct {
```

```
    lwres_uint32_t  flags;
```

```
    lwres_uint32_t  addrtypes;
```

```
    lwres_uint16_t  namelen;
```

```
    char            *name;
```

```
} lwres_gabnrequest_t;
```

```
typedef struct {
```

```
    lwres_uint32_t  flags;
```

```
    lwres_uint16_t  naliases;
```

```
    lwres_uint16_t  naddrs;
```

```
    char            *realname;
```

```
    char            **aliases;
```

```
    lwres_uint16_t  realnamelen;
```

```
    lwres_uint16_t  *aliaslen;
```

```
    lwres_addrlist_t  addrs;
```

```
    void            *base;
```

```
    size_t          baselen;
```

```
} lwres_gabnresponse_t;
```

</programlisting>

</para>

<para>

<function>lwres\_gabnrequest\_render()</function>

uses resolver context

<parameter>ctx</parameter>

to convert getaddrbyname request structure

<parameter>req</parameter>

to canonical format.

The packet header structure

<parameter>pkt</parameter>

is initialised and transferred to

buffer

<parameter>b</parameter>.

The contents of

<parameter>\*req</parameter>

are then appended to the buffer in canonical format.

<function>lwres\_gabnresponse\_render()</function>

performs the same task, except it converts a getaddrbyname response structure

<type>lwres\_gabnresponse\_t</type>

to the lightweight resolver's canonical format.

</para>

<para>

<function>lwres\_gabnrequest\_parse()</function>

uses context

<parameter>ctx</parameter>

to convert the contents of packet

<parameter>pkt</parameter>

to a

<type>lwres\_gabnrequest\_t</type>

structure.

Buffer

<parameter>b</parameter>

provides space to be used for storing this structure.

When the function succeeds, the resulting

<type>lwres\_gabnrequest\_t</type>

is made available through

<parameter>\*structp</parameter>.

<function>lwres\_gabnresponse\_parse()</function>

offers the same semantics as

<function>lwres\_gabnrequest\_parse()</function>

except it yields a

<type>lwres\_gabnresponse\_t</type>

structure.

</para>

<para>

<function>lwres\_gabnresponse\_free()</function>

and

<function>lwres\_gabnrequest\_free()</function>

release the memory in resolver context

<parameter>ctx</parameter>

that was allocated to the

<type>lwres\_gabnresponse\_t</type>

or

<type>lwres\_gabnrequest\_t</type>

structures referenced via

<parameter>structp</parameter>.

Any memory associated with ancillary buffers and strings for those structures is also discarded.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The `lwres_gabnbyname` opcode functions

<function>`lwres_gabnrequest_render()`</function>,&p>

<function>`lwres_gabnresponse_render()`</function>

<function>`lwres_gabnrequest_parse()`</function>

and

<function>`lwres_gabnresponse_parse()`</function>

all return

<errorcode>`LWRES_R_SUCCESS`</errorcode>

on success.

They return

<errorcode>`LWRES_R_NOMEMORY`</errorcode>

if memory allocation fails.

<errorcode>`LWRES_R_UNEXPECTEDEND`</errorcode>

is returned if the available space in the buffer

<parameter>`b`</parameter>

is too small to accommodate the packet header or the

<type>`lwres_gabnrequest_t`</type>

and

<type>`lwres_gabnresponse_t`</type>

structures.

<function>`lwres_gabnrequest_parse()`</function>

and

<function>`lwres_gabnresponse_parse()`</function>

will return

<errorcode>`LWRES_R_UNEXPECTEDEND`</errorcode>

if the buffer is not empty after decoding the received packet.

These functions will return

<errorcode>`LWRES_R_FAILURE`</errorcode>

if

<structfield>`pktflags`</structfield>

in the packet header structure

<type>`lwres_lwpacket_t`</type>

indicate that the packet is not a response to an earlier query.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>`lwres_packet`</refentrytitle><manvolnum>3

</manvolnum>  
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.\" \$Id: lwres\_inetntop.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$  
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```

/*
 * This is the header file for the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
 * This code is in the public domain; do with it what you wish.
 *
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 *
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
 *
 * Changed so as no longer to depend on Colin Plumb's `usual.h'
 * header definitions; now uses stuff from dpkg's config.h
 * - Ian Jackson <ijackson@nyx.cs.du.edu>.
 * Still in the public domain.
 */

```

Found in path(s):

```

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/md5.h

```

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```

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 * _
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/hpux/include/sys/cdefs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/hpux9/include/sys/cdefs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/unixware20/include/sys/cdefs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/aix4/include/sys/cdefs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/sunos/include/sys/cdefs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/irix/include/sys/cdefs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/unixware212/include/sys/cdefs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/cygwin/include/sys/cdefs.h  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/lynxos/include/sys/cdefs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/hpux10/include/sys/cdefs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/mpe/include/sys/cdefs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/next/include/sys/cdefs.h

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-->
```

```
<!-- $Id: lwres_getipnode.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->
```

```
<refentry>
```

```
<refentryinfo>
```

```
<date>Jun 30, 2000</date>
```

```
</refentryinfo>
```

```
<refmeta>
```

```
<refentrytitle>lwres_getipnode</refentrytitle>
```

```
<manvolnum>3</manvolnum>
```

```
<refmiscinfo>BIND9</refmiscinfo>
```

```
</refmeta>
```

```
<refnamediv>
```

```
<refname>lwres_getipnodebyname</refname>
```

```
<refname>lwres_getipnodebyaddr</refname>
```

```
<refname>lwres_freehostent</refname>
```

```
<refpurpose>lightweight resolver nodename / address translation API</refpurpose>
```

```
</refnamediv>
```

```
<refsynopsisdiv>
```

```
<funcsynopsis>
```

```
<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>
```

```
<funcprototype>
```

```
<funcdef>
```

```
struct hostent *
```

```
<function>lwres_getipnodebyname</function></funcdef>
```

```
<paramdef>const char *name</paramdef>
```

```

<paramdef>int af</paramdef>
<paramdef>int flags</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_getipnodebyaddr</function></funcdef>
<paramdef>const void *src</paramdef>
<paramdef>size_t len</paramdef>
<paramdef>int af</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freehostent</function></funcdef>
<paramdef>struct hostent *he</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>

```

```

<refsect1>
<title>DESCRIPTION</title>

```

```

<para>
These functions perform thread safe, protocol independent
nodename-to-address and address-to-nodename
translation as defined in RFC2553.
</para>

```

```

<para>
They use a
<type>struct hostent</type>
which is defined in
<filename>namedb.h</filename>:
<programlisting>
struct hostent {
    char    *h_name;    /* official name of host */
    char    **h_aliases; /* alias list */
    int     h_addrtype; /* host address type */
    int     h_length;   /* length of address */
    char    **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
</programlisting>
</para>

```

<para>

The members of this structure are:

<variablelist>

<varlistentry><term><constant>h\_name</constant></term>

<listitem>

<para>

The official (canonical) name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addrtype</constant></term>

<listitem>

<para>

The type of address being returned - usually

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addr\_list</constant></term>

<listitem>

<para>

A

<type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<function>lwres\_getipnodebyname()</function>

looks up addresses of protocol family

<parameter>af</parameter>

for the hostname

<parameter>name</parameter>.

The

<parameter>flags</parameter>

parameter contains ORed flag bits to specify the types of addresses that are searched for, and the types of addresses that are returned.

The flag bits are:

<variablelist>

<varlistentry><term><constant>AI\_V4MAPPED</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF\_INET6, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_ALL</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF\_INET6, and causes all known addresses (IPv6 and IPv4) to be returned.

If AI\_V4MAPPED is also set, the IPv4 addresses are return as mapped IPv6 addresses.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_ADDRCONFIG</constant></term>

<listitem>

<para>

Only return an IPv6 or IPv4 address if here is an active network interface of that type. This is not currently implemented in the BIND 9 lightweight resolver, and the flag is ignored.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_DEFAULT</constant></term>

<listitem>

<para>

This default sets the

<constant>AI\_V4MAPPED</constant>

and

<constant>AI\_ADDRCONFIG</constant>

flag bits.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>  
<function>lwres\_getipnodebyaddr()</function>  
performs a reverse lookup  
of address  
<parameter>src</parameter>  
which is  
<parameter>len</parameter>  
bytes long.  
<parameter>af</parameter>  
denotes the protocol family, typically  
<type>PF\_INET</type>  
or  
<type>PF\_INET6</type>.

</para>  
<para>  
<function>lwres\_freehostent()</function>  
releases all the memory associated with  
the  
<type>struct hostent</type>  
pointer  
<parameter>he</parameter>.

Any memory allocated for the  
<constant>h\_name</constant>,

<constant>h\_addr\_list</constant>  
and  
<constant>h\_aliases</constant>  
is freed, as is the memory for the  
<type>hostent</type>  
structure itself.

</para>  
</refsect1>  
<refsect1>  
<title>RETURN VALUES</title>

<para>  
If an error occurs,  
<function>lwres\_getipnodebyname()</function>  
and  
<function>lwres\_getipnodebyaddr()</function>  
set  
<parameter>\*error\_num</parameter>  
to an appropriate error code and the function returns a  
<type>NULL</type>  
pointer.

The error codes and their meanings are defined in  
<filename>&lt;lwres/netdb.h&gt;</filename>:

```

<variablelist>
<varlistentry><term><constant>HOST_NOT_FOUND</constant></term>
<listitem>
<para>
No such host is known.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>NO_ADDRESS</constant></term>
<listitem>
<para>
The server recognised the request and the name but no address is
available. Another type of request to the name server for the
domain might return an answer.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>TRY_AGAIN</constant></term>
<listitem>
<para>
A temporary and possibly transient error occurred, such as a
failure of a server to respond. The request may succeed if
retried.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>NO_RECOVERY</constant></term>
<listitem>
<para>
An unexpected failure occurred, and retrying the request
is pointless.
</para>
</listitem></varlistentry>
</variablelist>
</para>
<para>
<citerefentry>
<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
translates these error codes to suitable error messages.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>RFC2553</refentrytitle>
</citerefentry>,
<citerefentry>

```



<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>,</p></div>
<div data-bbox="147 103 680 153" data-label="Text"><p><citerefentry><br><refentrytitle>lwres\_gethostent</refentrytitle><manvolnum>3</manvolnum><br></citerefentry>,</p></div>
<div data-bbox="147 175 689 225" data-label="Text"><p><citerefentry><br><refentrytitle>lwres\_getaddrinfo</refentrytitle><manvolnum>3</manvolnum><br></citerefentry>,</p></div>
<div data-bbox="147 246 696 295" data-label="Text"><p><citerefentry><br><refentrytitle>lwres\_getnameinfo</refentrytitle><manvolnum>3</manvolnum><br></citerefentry>,</p></div>
<div data-bbox="147 316 669 366" data-label="Text"><p><citerefentry><br><refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3</manvolnum><br></citerefentry>.</p></div>
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getgrent\_r.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getprotoent\_r.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/gethostent\_r.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getservent\_r.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getpwent\_r.c

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Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/nameser/ns\_samedomain.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/syslog.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind9/getaddresses.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/strerror.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/parseint.h

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```
/*-----  
* eventlib definitions specific to binos  
*  
* January 2007, Vikram Visweswaraiah  
*  
* Copyright (c) 2007-2008, 2015 by cisco Systems, Inc.  
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*-----  
*/
```

Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/isc/eventlib\_defs.h

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/bsd/strsep.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/openssl\_link.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/refcount.h

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\*/

/\* \$Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp \$ \*/

```

#ifndef LWRES_PLATFORM_H
#define LWRES_PLATFORM_H 1

/****
**** Platform-dependent defines.
****/

/**
*** Network.
***/

/*
* Define if this system needs the <netinet/in6.h> header file for IPv6.
*/
@LWRES_PLATFORM_NEEDNETINETIN6H@

/*
* Define if this system needs the <netinet6/in6.h> header file for IPv6.
*/
@LWRES_PLATFORM_NEEDNETINET6IN6H@

/*
* If sockaddrs on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN
* will be defined.
*/
@LWRES_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, LWRES_PLATFORM_HAVEIPV6
* will be defined.
*/
@LWRES_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, LWRES_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback,
* LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
* If this system has in_addr6, rather than in6_addr,

```

```

* LWRES_PLATFORM_HAVEINADDR6 will be defined.
*/
@LWRES_PLATFORM_HAVEINADDR6@

/*
* Defined if unistd.h does not cause fd_set to be declared.
*/
@LWRES_PLATFORM_NEEDSYSSELECTH@

/*
* Used to control how extern data is linked; needed for Win32 platforms.
*/
@LWRES_PLATFORM_USEDECLSPEC@

/*
* Defined this system needs vsnprintf() and snprintf().
*/
@LWRES_PLATFORM_NEEDVSNPRINTF@

/*
* If this system need a modern sprintf() that returns (int) not (char*).
*/
@LWRES_PLATFORM_NEEDSPRINTF@

#ifndef LWRES_PLATFORM_USEDECLSPEC
#define LIBLWRES_EXTERNAL_DATA
#else
#ifdef LIBLWRES_EXPORTS
#define LIBLWRES_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBLWRES_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif

#endif /* LWRES_PLATFORM_H */

```

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/name.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/result.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/types.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/gen.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/name.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/socket.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/sockaddr.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/time.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rcode.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/rdata.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/lex.c

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.\" $Id: lwres_getaddrinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"

```

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-->

<!-- \$Id: lwres\_config.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_config</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_conf\_init</refname>

<refname>lwres\_conf\_clear</refname>

<refname>lwres\_conf\_parse</refname>

<refname>lwres\_conf\_print</refname>

<refname>lwres\_conf\_get</refname>

<refpurpose>lightweight resolver configuration</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

```

<functsynopsisinfo>#include <lwres/lwres.h></functsynopsisinfo>
<funcprototype>
<funcdef>
void
<function>lwres_conf_init</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_conf_clear</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *filename</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_print</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>FILE *fp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_conf_t *
<function>lwres_conf_get</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>

```

```

<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_conf_init()</function>
creates an empty
<type>lwres_conf_t</type>
structure for lightweight resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_clear()</function>
frees up all the internal memory used by

```

that

<type>lwres\_conf\_t</type>

structure in resolver context

<parameter>ctx</parameter>.

</para>

<para>

<function>lwres\_conf\_parse()</function>

opens the file

<parameter>filename</parameter>

and parses it to initialise the resolver context

<parameter>ctx</parameter>'s

<type>lwres\_conf\_t</type>

structure.

</para>

<para>

<function>lwres\_conf\_print()</function>

prints the

<type>lwres\_conf\_t</type>

structure for resolver context

<parameter>ctx</parameter>

to the

<type>FILE</type>

<parameter>fp</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_conf\_parse()</function>

returns

<errorcode>LWRES\_R\_SUCCESS</errorcode>

if it successfully read and parsed

<parameter>filename</parameter>.

It returns

<errorcode>LWRES\_R\_FAILURE</errorcode>

if

<parameter>filename</parameter>

could not be opened or contained incorrect

resolver statements.

</para>

<para>

<function>lwres\_conf\_print()</function>

returns

<errorcode>LWRES\_R\_SUCCESS</errorcode>

unless an error occurred when converting the network addresses to a numeric host address string.

If this happens, the function returns

```

<errorcode>LWRES_R_FAILURE</errorcode>.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>resolver</refentrytitle><manvolnum>5</manvolnum>
</citerefentry>.
</refsect1>
<refsect1>
<title>FILES</title>
<para>
<filename>/etc/resolv.conf</filename>
</para>
</refsect1>
</refentry>

```

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/sco42/include/sys/un.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/nameser/ns\_date.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/resolv/res\_findzonecut.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/isc/irpmarshall.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/resolv/res\_debug.h

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.\" \$Id: lwres\_gnba.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/isc/logging.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/nameser/ns_print.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/resolv/res_update.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_ntop.c

```



- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/logging\_p.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/gen\_gr.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/dns\_nw.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/dns\_p.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/nsap\_addr.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/resolv/res\_mkupdate.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/lcl.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/dns.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getgrent.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/lcl\_ng.c
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/ssu.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/peer.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/stat.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/string.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sdb.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/ssu.h

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- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/lwres\_gnba.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/errno2result.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/file.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/entropy.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/fsaccess.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/unix/include/lwres/net.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/include/dst/dst.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/cfg/include/isc/cfg/cfg.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/errno2result.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/os.c
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 \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/time.h  
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 \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/gen-unix.h  
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 \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/fixname.h  
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- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/nls/msgcat.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/callbacks.c
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- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/cert\_37.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/dir.c
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- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/base64.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/bitstring.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/stdtime.c
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- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/any\_255/tsig\_250.h



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- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/kx\_36.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/dir.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/interfaceiter.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/gpos\_27.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rt\_21.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/tcpmsg.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/taskpool.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/rcode.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/mutexblock.c
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- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/dbiterator.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/x25\_19.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/rdatastructsuf.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/include/lwres/lwpacket.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/ttl.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/secalg.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/ipv6.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/afsdh\_18.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/wks\_11.h

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- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/irp.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/irp\_ng.c

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/isc/ctl.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/ctl_srvr.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/ctl_p.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_cidr_ntop.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_cidr_pton.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/ctl_clnt.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/resolv/res_mkupdate.h

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.\" $Id: lwres_config.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_config.3

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/dst/md5.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/dst/md5\_dgst.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/dst/md5\_locl.h

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/symtab.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/inet\_ntop.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/symtab.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/lwintpton.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/ccmsg.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/events.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/alist.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/ccmsg.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/symtab.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/lib.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/sexpr.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/symtab.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/types.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/base64.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/alist.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/util.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/symtype.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/base64.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/lib.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/sexpr.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/cc.h

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/inet\_netof.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/inet\_network.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/inet\_makeaddr.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/inet\_ntoa.c

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 \*/  
 /\*  
 \* Get the response to 'request' by filling in 'message'.  
 \*  
 \* 'options' is passed to dns\_message\_parse(). See dns\_message\_parse()  
 \* for more details.  
 \*  
 \* Requires:  
 \*  
 \* 'request' is a valid request for which the caller has received the  
 \* completion event.  
 \*  
 \* The result code of the completion event was ISC\_R\_SUCCESS.  
 \*  
 \* Returns:  
 \*  
 \* ISC\_R\_SUCCESS  
 \*  
 \* Any result that dns\_message\_parse() can return.  
 \*/

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<!-- \$Id: lwres\_context.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

```

<date>Jun 30, 2000</date>
</refentryinfo>
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<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_context_create</refname>
<refname>lwres_context_destroy</refname>
<refname>lwres_context_nextserial</refname>
<refname>lwres_context_initserial</refname>
<refname>lwres_context_freemem</refname>
<refname>lwres_context_allocmem</refname>
<refname>lwres_context_sendrecv</refname>
<refpurpose>lightweight resolver context management</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_context_create</function></funcdef>
<paramdef>lwres_context_t **contextp</paramdef>
<paramdef>void *arg</paramdef>
<paramdef>lwres_malloc_t malloc_function</paramdef>
<paramdef>lwres_free_t free_function</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_context_destroy</function></funcdef>
<paramdef>lwres_context_t **contextp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_initserial</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t serial</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_uint32_t
<function>lwres_context_nextserial</function></funcdef>

```

```

<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_freemem</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>void *mem</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_allocmem</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void *
<function>lwres_context_sendrecv</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>void *sendbase</paramdef>
<paramdef>int sendlen</paramdef>
<paramdef>void *recvbase</paramdef>
<paramdef>int recvlen</paramdef>
<paramdef>int *recvd_len</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>
<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_context_create()</function>
creates a
<type>lwres_context_t</type>
structure for use in lightweight resolver operations.
It holds a socket and other data needed for communicating
with a resolver daemon.
The new
<type>lwres_context_t</type>
is returned through
<parameter>contextp</parameter>,

a pointer to a
<type>lwres_context_t</type>
pointer. This
<type>lwres_context_t</type>

```

pointer must initially be NULL, and is modified to point to the newly created `<type>lwres_context_t</type>`.

</para>

<para>

When the lightweight resolver needs to perform dynamic memory allocation, it will call

`<parameter>malloc_function</parameter>`

to allocate memory and

`<parameter>free_function</parameter>`

to free it. If

`<parameter>malloc_function</parameter>`

and

`<parameter>free_function</parameter>`

are NULL, memory is allocated using

.Xr malloc 3

and

<citrefentry>

<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>

</citrefentry>.

It is not permitted to have a NULL

`<parameter>malloc_function</parameter>`

and a non-NULL

`<parameter>free_function</parameter>`

or vice versa.

`<parameter>arg</parameter>`

is passed as the first parameter to the memory allocation functions.

If

`<parameter>malloc_function</parameter>`

and

`<parameter>free_function</parameter>`

are NULL,

`<parameter>arg</parameter>`

is unused and should be passed as NULL.

</para>

<para>

Once memory for the structure has been allocated,

it is initialized using

<citrefentry>

<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>

</citrefentry>

and returned via

<parameter>\*contextp</parameter>.

</para>

<para>

<function>lwres\_context\_destroy()</function>

destroys a

<type>lwres\_context\_t</type>,

closing its socket.

<parameter>contextp</parameter>

is a pointer to a pointer to the context that is to be destroyed.

The pointer will be set to NULL when the context has been destroyed.

</para>

<para>

The context holds a serial number that is used to identify resolver request packets and associate responses with the corresponding requests.

This serial number is controlled using

<function>lwres\_context\_initserial()</function>

and

<function>lwres\_context\_nextserial()</function>.

<function>lwres\_context\_initserial()</function>

sets the serial number for context

<parameter>\*ctx</parameter>

to

<parameter>serial</parameter>.

<function>lwres\_context\_nextserial()</function>

increments the serial number and returns the previous value.

</para>

<para>

Memory for a lightweight resolver context is allocated and freed using

<function>lwres\_context\_allocmem()</function>

and

<function>lwres\_context\_freemem()</function>.

These use whatever allocations were defined when the context was created with

<function>lwres\_context\_create()</function>.

<function>lwres\_context\_allocmem()</function>

allocates

<parameter>len</parameter>

bytes of memory and if successful returns a pointer to the allocated storage.

<function>lwres\_context\_freemem()</function>

frees

<parameter>len</parameter>

bytes of space starting at location

<parameter>mem</parameter>.

</para>

<para>

<function>lwres\_context\_sendrecv()</function>

performs I/O for the context

<parameter>ctx</parameter>.

Data are read and written from the context's socket.

It writes data from

<parameter>sendbase</parameter>

&mdash; typically a lightweight resolver query packet &mdash;

and waits for a reply which is copied to the receive buffer at

<parameter>recvbase</parameter>.

The number of bytes that were written to this receive buffer is

returned in

<parameter>\*recvd\_len</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_context\_create()</function>

returns

<errorcode>LWRES\_R\_NOMEMORY</errorcode>

if memory for the

<type>struct lwres\_context</type>

could not be allocated,

<errorcode>LWRES\_R\_SUCCESS</errorcode>

otherwise.

</para>

<para>

Successful calls to the memory allocator

<function>lwres\_context\_allocmem()</function>

return a pointer to the start of the allocated space.

It returns NULL if memory could not be allocated.

</para>

<para>

<errorcode>LWRES\_R\_SUCCESS</errorcode>

is returned when

<function>lwres\_context\_sendrecv()</function>

completes successfully.

<errorcode>LWRES\_R\_IOERROR</errorcode>

is returned if an I/O error occurs and

<errorcode>LWRES\_R\_TIMEOUT</errorcode>

is returned if

<function>lwres\_context\_sendrecv()</function>

times out waiting for a response.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>free</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

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```

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* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
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*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

```

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/sshfp\_44.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rrsig\_46.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/dnskey\_48.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/dnskey\_48.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rrsig\_46.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/portlist.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/nsec\_47.h



\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/hash.h

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- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/px\_26.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/kx\_36.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/tkey.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rt\_21.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/db.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdatalist.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/print.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/print\_p.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/tkey\_249.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/resolver.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/srv\_33.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/log.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/keyvalues.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/print.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/nsec.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/string.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/afsdh\_18.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/xfrin.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/print.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/naptr\_35.c

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- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/region.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/ds.h

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/dst_openssl.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/win32/lwconfig.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/win32os.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/netscope.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ds_43.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/opcode.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/apl_42.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/order.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ds_43.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/apl_42.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/iscconf/include/iscconf/namedconf.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/order.h

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/offset.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/include/lwres/int.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/forward.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/gai\_strerror.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/win32/include/lwres/net.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/keytable.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/socket\_p.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/errno2result.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/forward.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/entropy.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/quota.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/lwres\_grbn.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/keyboard.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/resource.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/win32/bindevt/bindevt.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/include/lwres/result.h

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata\_list\_p.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/bit.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/fsaccess.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/task\_p.h

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/nothreads/include/isc/mutex.h  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/quota.c  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/keyboard.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/include/lwres/netdb.h.in  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/nothreads/include/isc/thread.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/os.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/ondestroy.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/nothreads/mutex.c

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<!-- \$Id: lwres\_gethostent.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

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<date>Jun 30, 2000</date>

</refentryinfo>

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<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

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<refname>lwres\_gethostbyname2</refname>

<refname>lwres\_gethostbyaddr</refname>

<refname>lwres\_gethostent</refname>

<refname>lwres\_sethostent</refname>

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<refname>lwres_endhostent</refname>
<refname>lwres_gethostbyname_r</refname>
<refname>lwres_gethostbyaddr_r</refname>
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void
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```



```

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```

<refsect1>

<title>DESCRIPTION</title>

<para>

These functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver. They are similar to the standard

<citerefentry>

<refentrytitle>gethostent</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

functions provided by most operating systems.

They use a

<type>struct hostent</type>

which is usually defined in

<filename>&lt;namedb.h&gt;</filename>.

<programlisting>

```
struct hostent {
    char    *h_name;      /* official name of host */
    char    **h_aliases;  /* alias list */
    int     h_addrtype;   /* host address type */
    int     h_length;     /* length of address */
    char    **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
```

</programlisting>

</para>

<para>

The members of this structure are:

<variablelist>

<varlistentry><term><constant>h\_name</constant></term>

<listitem>

<para>

The official (canonical) name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addrtype</constant></term>

<listitem>

<para>

The type of address being returned &mdash;

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addr\_list</constant></term>

<listitem>

<para>

A <type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

For backward compatibility with very old software,

<constant>h\_addr</constant>

is the first address in

<constant>h\_addr\_list.</constant>

</para>

<para>

<function>lwres\_ghetent()</function>,</function>

<function>lwres\_sethostent()</function>,</function>

<function>lwres\_endhostent()</function>,</function>

<function>lwres\_ghetent\_r()</function>,</function>

<function>lwres\_sethostent\_r()</function>

and

<function>lwres\_endhostent\_r()</function>

provide iteration over the known host entries on systems that

provide such functionality through facilities like

<filename>/etc/hosts</filename>

or NIS. The lightweight resolver does not currently implement

these functions; it only provides them as stub functions that always

return failure.

</para>

<para>

<function>lwres\_gethostbyname()</function> and

<function>lwres\_gethostbyname2()</function> look up the hostname

<parameter>name</parameter>.

<function>lwres\_gethostbyname()</function> always looks for an IPv4

address while <function>lwres\_gethostbyname2()</function> looks for an

address of protocol family <parameter>af</parameter>: either

<type>PF\_INET</type> or <type>PF\_INET6</type> &mdash; IPv4 or IPV6 addresses respectively. Successful calls of the functions return a <type>struct hostent</type> for the name that was looked up. <type>NULL</type> is returned if the lookups by <function>lwres\_gethostbyname()</function> or <function>lwres\_gethostbyname2()</function> fail.

Reverse lookups of addresses are performed by <function>lwres\_gethostbyaddr()</function>. <parameter>addr</parameter> is an address of length <parameter>len</parameter> bytes and protocol family <parameter>type</parameter> &mdash; <type>PF\_INET</type> or <type>PF\_INET6</type>. <function>lwres\_gethostbyname\_r()</function> is a thread-safe function for forward lookups. If an error occurs, an error code is returned in <parameter>\*error</parameter>. <parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <function>lwres\_gethostbyname\_r()</function> . <parameter>buf</parameter> is a buffer of length <parameter>len</parameter> bytes which is used to store the <constant>h\_name</constant>, <constant>h\_aliases</constant>, and <constant>h\_addr\_list</constant> elements of the <type>struct hostent</type> returned in <parameter>resbuf</parameter>. Successful calls to <function>lwres\_gethostbyname\_r()</function> return <parameter>resbuf</parameter>, which is a pointer to the <type>struct hostent</type> it created.

<function>lwres\_gethostbyaddr\_r()</function> is a thread-safe function that performs a reverse lookup of address <parameter>addr</parameter> which is <parameter>len</parameter> bytes long and is of protocol family <parameter>type</parameter> &mdash; <type>PF\_INET</type> or <type>PF\_INET6</type>. If an error occurs, the error code is returned in <parameter>\*error</parameter>. The other function parameters are identical to those in <function>lwres\_gethostbyname\_r()</function>. <parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <function>lwres\_gethostbyaddr\_r()</function>. <parameter>buf</parameter> is a buffer of length <parameter>len</parameter> bytes which is used to store the <constant>h\_name</constant>, <constant>h\_aliases</constant>, and <constant>h\_addr\_list</constant> elements of the <type>struct hostent</type> returned in <parameter>resbuf</parameter>. Successful calls to <function>lwres\_gethostbyaddr\_r()</function> return

<parameter>resbuf</parameter>, which is a pointer to the  
<function>struct hostent()</function> it created.  
</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The functions

<function>lwres\_gethostbyname()</function>,  
<function>lwres\_gethostbyname2()</function>,  
<function>lwres\_gethostbyaddr()</function>,  
and  
<function>lwres\_gethostent()</function>

return NULL to indicate an error. In this case the global variable

<type>lwres\_h\_errno</type>

will contain one of the following error codes defined in

<filename>&lt;lwres/netdb.h&gt;</filename>:

<variablelist>

<varlistentry><term><constant>HOST\_NOT\_FOUND</constant></term>

<listitem>

<para>

The host or address was not found.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>TRY\_AGAIN</constant></term>

<listitem>

<para>

A recoverable error occurred, e.g., a timeout.

Retrying the lookup may succeed.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO\_RECOVERY</constant></term>

<listitem>

<para>

A non-recoverable error occurred.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO\_DATA</constant></term>

<listitem>

<para>

The name exists, but has no address information

associated with it (or vice versa in the case

of a reverse lookup). The code NO\_ADDRESS

is accepted as a synonym for NO\_DATA for backwards

compatibility.

</para>  
</listitem></varlistentry>  
</variablelist>  
</para>

<para>  
<citerefentry>  
<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3  
</manvolnum>  
</citerefentry>  
translates these error codes to suitable error messages.  
</para>

<para>  
<function>lwres\_gethostent()</function>  
and  
<function>lwres\_gethostent\_r()</function>  
always return  
<type>NULL</type>.  
</para>

<para>  
Successful calls to <function>lwres\_gethostbyname\_r()</function> and  
<function>lwres\_gethostbyaddr\_r()</function> return  
<parameter>resbuf</parameter>, a pointer to the <type>struct  
hostent</type> that was initialised by these functions. They return  
<type>NULL</type> if the lookups fail or if <parameter>buf</parameter>  
was too small to hold the list of addresses and names referenced by  
the <constant>h\_name</constant>, <constant>h\_aliases</constant>, and  
<constant>h\_addr\_list</constant> elements of the <type>struct  
hostent</type>. If <parameter>buf</parameter> was too small, both  
<function>lwres\_gethostbyname\_r()</function> and  
<function>lwres\_gethostbyaddr\_r()</function> set the global variable  
<type>errno</type> to <errorcode>ERANGE</errorcode>.  
</para>

</refsect1>  
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<title>SEE ALSO</title>  
<para>  
<citerefentry>  
<refentrytitle>gethostent</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>,&br/>

<citerefentry>  
<refentrytitle>lwres\_getipnode</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>,&br/>

<citerefentry>  
<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3  
</manvolnum>  
</citerefentry>  
</para>  
</refsect1>

<refsect1>  
<title>BUGS</title>  
<para>  
<function>lwres\_gethostbyname()</function>,  
<function>lwres\_gethostbyname2()</function>,  
<function>lwres\_gethostbyaddr()</function>  
and  
<function>lwres\_endhostent()</function>  
are not thread safe; they return pointers to static data and  
provide error codes through a global variable.  
Thread-safe versions for name and address lookup are provided by  
<function>lwres\_gethostbyname\_r()</function>,  
and  
<function>lwres\_gethostbyaddr\_r()</function>  
respectively.  
</para>  
<para>  
The resolver daemon does not currently support any non-DNS  
name services such as  
<filename>/etc/hosts</filename>  
or  
<type>NIS</type>,  
consequently the above functions don't, either.  
</para>  
</refsect1>  
</refentry>

Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gethostent.docbook

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/nameser/ns\_verify.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/res\_update.h

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.\" \$Id: lwres\_gethostent.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

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- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/any\_255/tsig\_250.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdataslab.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/dnssec.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/master.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/rdataset.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/sig\_24.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/xfrin.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/adb.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/adb.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/ifiter\_sysctl.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/key\_25.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/cache.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/masterdump.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/view.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/dispatch.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/net.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/ifiter\_ioctl.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/zone.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/interfaceiter.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/log.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/types.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/app.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rbt.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/nxt\_30.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/tkey\_249.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/a6\_38.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/cert\_37.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/net.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/zone.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/resolver.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/message.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/message.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/view.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/net.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdataset.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/net.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/db.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/dispatch.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/getipnode.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/sockaddr.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/ncache.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/loc\_29.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/tests/t\_api.c

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.\ " \$Id: tree.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp \$

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.\"Os OPERATING_SYSTEM [version/release]
.\" The following requests should be uncommented and
.\" used where appropriate. This next request is
.\" for sections 2 and 3 function return values only.
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
```



.\" .Sh STANDARDS

.\" .Sh HISTORY

.\" .Sh BUGS

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscconf/parser.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/lwconfig.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/entropy.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/hex.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/byaddr.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/msgs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/validator.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/entropy.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/socket.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/opensslrsa\_link.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/byaddr.h  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/syslog.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind9/check.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/a\_1.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/null\_10.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/netaddr.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/timer.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/region.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/txt\_16.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/buffer.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/soa\_6.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/proforma.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/hinfo\_13.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/pthreads/include/isc/mutex.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/opt\_41.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/socket.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/event.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/lex.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/timer.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/dlv\_65323.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/dlv\_65323.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/version.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind9/include/bind9/check.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/include/lwres/version.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/win32/DLLMain.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind9/win32/DLLMain.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscconf/log.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind9/version.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/bind\_registry.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscconf/include/iscconf/log.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/version.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscconf/win32/DLLMain.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/DLLMain.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/zonekey.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/bindevt.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/key.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/version.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind9/include/bind9/getaddresses.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/strerror.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/strerror.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/DLLMain.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/solaris/include/sys/bitypes.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscconf/include/iscconf/version.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/syslog.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind9/include/bind9/version.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/ntgroups.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/version.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/ntpaths.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/strerror.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/ntgroups.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/platform.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/win32/DLLMain.c

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/\*

\* SHA-1 in C

\* By Steve Reid <steve@edmweb.com>

\* 100% Public Domain

\*

\* Test Vectors (from FIPS PUB 180-1)

\* "abc"

\* A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D

\* "abdbcdbcdedfdefgefghfghighijhijkljklmklmnlmnomnopnopq"

\* 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1

\* A million repetitions of "a"

\* 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F

\*/

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/dns\_ho.c

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/\* "UH Universal Hashing Library"

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-->

<!-- \$Id: lwres\_getaddrinfo.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getaddrinfo</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getaddrinfo</refname>

<refname>lwres\_freeaddrinfo</refname>

<refpurpose>socket address structure to host and service name</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

int

<function>lwres\_getaddrinfo</function></funcdef>

<paramdef>const char \*hostname</paramdef>

<paramdef>const char \*servname</paramdef>

<paramdef>const struct addrinfo \*hints</paramdef>

<paramdef>struct addrinfo \*\*res</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres\_freeaddrinfo</function></funcdef>

<paramdef>struct addrinfo \*ai</paramdef>

</funcprototype>

</funcsynopsis>

<para>

If the operating system does not provide a

<type>struct addrinfo</type>,

the following structure is used:

<programlisting>

```
struct addrinfo {
    int      ai_flags;    /* AI_PASSIVE, AI_CANONNAME */
    int      ai_family;   /* PF_XXX */
    int      ai_socktype; /* SOCK_XXX */
    int      ai_protocol; /* 0 or IPPROTO_XXX for IPv4 and IPv6 */
    size_t    ai_addrlen; /* length of ai_addr */
    char      *ai_canonname; /* canonical name for hostname */
    struct sockaddr *ai_addr; /* binary address */
    struct addrinfo *ai_next; /* next structure in linked list */
};
```

</programlisting>

</para>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_getaddrinfo()</function>

is used to get a list of IP addresses and port numbers for host

<parameter>hostname</parameter>

and service

<parameter>servname</parameter>.

The function is the lightweight resolver's implementation of

<function>getaddrinfo()</function>

as defined in RFC2133.

<parameter>hostname</parameter>

and

<parameter>servname</parameter>

are pointers to null-terminated

strings or

<type>NULL</type>.

<parameter>hostname</parameter>

is either a host name or a numeric host address string: a dotted decimal IPv4 address or an IPv6 address.

<parameter>servname</parameter>

is either a decimal port number or a service name as listed in

<filename>/etc/services</filename>.

</para>

<para>  
 <parameter>hints</parameter>  
 is an optional pointer to a  
 <type>struct addrinfo</type>.  
 This structure can be used to provide hints concerning the type of socket  
 that the caller supports or wishes to use.  
 The caller can supply the following structure elements in  
 <parameter>\*hints</parameter>:

<variablelist>  
 <varlistentry><term><constant>ai\_family</constant></term>  
 <listitem>  
 <para>The protocol family that should be used.  
 When  
 <constant>ai\_family</constant>  
 is set to  
 <type>PF\_UNSPEC</type>,  
 it means the caller will accept any protocol family supported by the  
 operating system.  
 </para></listitem></varlistentry>  
 <varlistentry><term><constant>ai\_socktype</constant></term>  
 <listitem>  
 <para>  
 denotes the type of socket &mdash;  
 <type>SOCK\_STREAM</type>,  
 <type>SOCK\_DGRAM</type>  
 or  
 <type>SOCK\_RAW</type>  
 &mdash; that is wanted.  
 When  
 <constant>ai\_socktype</constant>  
 is zero the caller will accept any socket type.  
 </para>  
 </listitem>  
 </varlistentry>  
 <varlistentry><term><constant>ai\_protocol</constant></term>  
 <listitem>  
 <para>  
 indicates which transport protocol is wanted: IPPROTO\_UDP or  
 IPPROTO\_TCP.  
 If  
 <constant>ai\_protocol</constant>  
 is zero the caller will accept any protocol.  
 </para>  
 </listitem>  
 </varlistentry>  
 <varlistentry><term><constant>ai\_flags</constant></term>  
 <listitem>

<para>  
Flag bits.  
If the  
<type>AI\_CANONNAME</type>  
bit is set, a successful call to  
<function>lwres\_getaddrinfo()</function>  
will return a null-terminated string containing the canonical name  
of the specified hostname in  
<constant>ai\_canonname</constant>  
of the first  
<type>addrinfo</type>  
structure returned.  
Setting the  
<type>AI\_PASSIVE</type>  
bit indicates that the returned socket address structure is intended  
for used in a call to  
<citrefentry>  
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>.

In this case, if the hostname argument is a  
<type>NULL</type>  
pointer, then the IP address portion of the socket  
address structure will be set to  
<type>INADDR\_ANY</type>  
for an IPv4 address or  
<type>IN6ADDR\_ANY\_INIT</type>  
for an IPv6 address.

</para>

<para>

When  
<constant>ai\_flags</constant>  
does not set the  
<type>AI\_PASSIVE</type>  
bit, the returned socket address structure will be ready  
for use in a call to  
<citrefentry>  
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>  
</manvolnum>  
</citrefentry>  
for a connection-oriented protocol or  
<citrefentry>  
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,

<citrefentry>  
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,

or

<citerefentry>  
<refentrytitle>sendmsg</refentrytitle><manvolnum>2  
</manvolnum>  
</citerefentry>

if a connectionless protocol was chosen.

The IP address portion of the socket address structure will be set to the loopback address if

<parameter>hostname</parameter>

is a

<type>NULL</type>

pointer and

<type>AI\_PASSIVE</type>

is not set in

<constant>ai\_flags</constant>.

</para>

<para>

If

<constant>ai\_flags</constant>

is set to

<type>AI\_NUMERICHOST</type>

it indicates that

<parameter>hostname</parameter>

should be treated as a numeric string defining an IPv4 or IPv6 address and no name resolution should be attempted.

</para>

</listitem>

</varlistentry>

</variablelist>

</para>

<para>

All other elements of the <type>struct addrinfo</type> passed via <parameter>hints</parameter> must be zero.

</para>

<para>

A <parameter>hints</parameter> of <type>NULL</type> is treated as if the caller provided a <type>struct addrinfo</type> initialized to zero with <constant>ai\_family</constant> set to <constant>PF\_UNSPEC</constant>.

</para>

<para>

After a successful call to

<function>lwres\_getaddrinfo()</function>,

<parameter>\*res</parameter>

is a pointer to a linked list of one or more

<type>addrinfo</type>

structures.

Each

<type>struct addrinfo</type>

in this list can be processed by following

the

<constant>ai\_next</constant>

pointer, until a

<type>NULL</type>

pointer is encountered.

The three members

<constant>ai\_family</constant>,

<constant>ai\_socktype</constant>,

and

<constant>ai\_protocol</constant>

in each

returned

<type>addrinfo</type>

structure contain the corresponding arguments for a call to

<citrefentry>

<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>

</citrefentry>.

For each

<type>addrinfo</type>

structure in the list, the

<constant>ai\_addr</constant>

member points to a filled-in socket address structure of length

<constant>ai\_addrlen</constant>.

</para>

<para>

All of the information returned by

<function>lwres\_getaddrinfo()</function>

is dynamically allocated: the addrinfo structures, and the socket

address structures and canonical host name strings pointed to by the

<constant>addrinfo</constant> structures.

Memory allocated for the dynamically allocated structures created by

a successful call to

<function>lwres\_getaddrinfo()</function>

is released by

<function>lwres\_freeaddrinfo()</function>.

<parameter>ai</parameter>

is a pointer to a

<type>struct addrinfo</type>

created by a call to

<function>lwres\_getaddrinfo()</function>.

</para>



</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_getaddrinfo()</function>

returns zero on success or one of the error codes listed in

<citerefentry>

<refentrytitle>gai\_strerror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

if an error occurs.

If both

<parameter>hostname</parameter>

and

<parameter>servname</parameter>

are

<type>NULL</type>

<function>lwres\_getaddrinfo()</function>

returns

<errorcode>EAI\_NONAME</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_gai\_strerror</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>RFC2133</refentrytitle>

</citerefentry>,

```

<citrefentry>
<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>
</citrefentry>,

<citrefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>,

<citrefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>,

<citrefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>,

<citrefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>,

<citrefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>.
</para>

</refsect1>
</refentry>

```

Found in path(s):

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_getaddrinfo.docbook
```

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```

.\" $Id: memcluster.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
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```

```

.\"
.\" The following six UNCOMMENTED lines are required.
.\"Os OPERATING_SYSTEM [version/release]
.\"Dt DOCUMENT_TITLE [section number] [volume]
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh FILES
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" .Sh DIAGNOSTICS
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS

```

Found in path(s):

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/memcluster.mdoc
```

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.\"
.\" $Id: lwres_resutil.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"

```

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```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_resutil.3
```

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```
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```

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```

```
*/
```

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- \* SUCH DAMAGE.
- \*
- \* @(#)cdefs.h 8.7 (Berkeley) 1/21/94
- \*/

Found in path(s):

- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/aux3/include/sys/cdefs.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/qnx/include/sys/cdefs.h

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getnetent.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/dns\_sv.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/mpe/include/sys/bitypes.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/hesiod\_p.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getpwent.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/dns\_pw.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/nameser/ns\_parse.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/nis\_ng.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getnetgrent.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/aix4/include/sys/bitypes.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/sco42/include/sys/bitypes.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/hesiod.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/util.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/hesiod.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/hpux/include/sys/bitypes.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/gen\_sv.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/dns\_pr.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/inet\_pton.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/bsdos/include/sys/bitypes.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/hpux9/include/sys/bitypes.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/lynxos/include/sys/bitypes.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/nameser/ns\_ttl.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/irs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getprotoent.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/nis\_sv.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/qnx/include/sys/bitypes.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/netbsd/include/sys/bitypes.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/lcl\_p.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/bsdos2/include/sys/bitypes.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/irs\_data.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/inet\_net\_pton.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/hpux10/include/sys/bitypes.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/inet\_net\_ntop.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/irs\_p.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/nameser/ns\_netint.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/irs\_data.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/gen\_pw.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getservent.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/decunix/include/sys/bitypes.h

```

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_ho.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/freebsd/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen_ho.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_p.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_pr.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/aix32/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/cygwin/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/unixware20/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/sunos/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen_p.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen_nw.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/openbsd/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen_pr.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/nameser/ns_name.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_nw.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/ultrix/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen_ng.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_pw.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/bitncmp.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/pathnames.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/unixware212/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/next/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nul_ng.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_neta.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/irix/include/sys/bitypes.h

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```

```
# $Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp $
```

```
# Search for machine-generated header files in the build tree,
# and for normal headers in the source tree (${top_srcdir}).
# We only need to look in OS-specific subdirectories for the
# latter case, because there are no machine-generated OS-specific
```

# headers.

```
ISC_INCLUDES = @BIND9_ISC_BUILDINCLUDE@ \  
-I${top_srcdir}/lib/isc \  
-I${top_srcdir}/lib/isc/include \  
-I${top_srcdir}/lib/isc/unix/include \  
-I${top_srcdir}/lib/isc/@ISC_THREAD_DIR@/include
```

```
ISCCFG_INCLUDES = @BIND9_ISCCFG_BUILDINCLUDE@ \  
-I${top_srcdir}/lib/isccfg/include
```

```
DNS_INCLUDES = @BIND9_DNS_BUILDINCLUDE@ \  
-I${top_srcdir}/lib/dns/include \  
-I${top_srcdir}/lib/dns/sec/dst/include
```

```
OMAPI_INCLUDES = @BIND9_OMAPI_BUILDINCLUDE@ \  
-I${top_srcdir}/lib/omapi/include
```

```
LWRES_INCLUDES = @BIND9_LWRES_BUILDINCLUDE@ \  
-I${top_srcdir}/lib/lwres/include
```

```
TEST_INCLUDES = \  
-I${top_srcdir}/lib/tests/include
```

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/lcl\_nw.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/nis\_gr.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/lcl\_sv.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_buffer.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_hstrerror.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_config.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gnba.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_context.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_packet.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gabn.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_buffer.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_noop.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gethostent.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_packet.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_getrrsetbyname.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_inetntop.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gnba.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_noop.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_getipnode.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_resutil.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_inetntop.html

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.\"
.\" $Id: lwres_hsterror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found in path(s):

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_hsterror.3
```

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*/
```

```
/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp $ */
```

```
#ifndef ISC_PLATFORM_H
#define ISC_PLATFORM_H 1
```

```
/*
**** Platform-dependent defines.
****/
```

```
/*
*** Network.
***/
```

```
/*
```

```

* Define if this system needs the <netinet/in6.h> header file included
* for full IPv6 support (pretty much only UnixWare).
*/
@ISC_PLATFORM_NEEDNETINETIN6H@

/*
* Define if this system needs the <netinet6/in6.h> header file included
* to support in6_pkinf (pretty much only BSD/OS).
*/
@ISC_PLATFORM_NEEDNETINET6IN6H@

/*
* If sockaddrs on this system have an sa_len field, ISC_PLATFORM_HAVESALEN
* will be defined.
*/
@ISC_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6
* will be defined.
*/
@ISC_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, ISC_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDIN6ADDRLOOPBACK
* will be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
* If this system has in6_pktinfo, ISC_PLATFORM_HAVEIN6PKTINFO will be
* defined.
*/
@ISC_PLATFORM_HAVEIN6PKTINFO@

/*
* If this system has in_addr6, rather than in6_addr, ISC_PLATFORM_HAVEINADDR6
* will be defined.
*/
@ISC_PLATFORM_HAVEINADDR6@

/*

```

```

* If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.
*/
@ISC_PLATFORM_HAVESCOPEID@

/*
* If this system needs inet_ntop(), ISC_PLATFORM_NEEDNTOP will be defined.
*/
@ISC_PLATFORM_NEEDNTOP@

/*
* If this system needs inet_pton(), ISC_PLATFORM_NEEDPTON will be defined.
*/
@ISC_PLATFORM_NEEDPTON@

/*
* If this system needs inet_aton(), ISC_PLATFORM_NEEDATON will be defined.
*/
@ISC_PLATFORM_NEEDATON@

/*
* If this system needs in_port_t, ISC_PLATFORM_NEEDPORTT will be defined.
*/
@ISC_PLATFORM_NEEDPORTT@

/*
* If the system needs strsep(), ISC_PLATFORM_NEEDSTRSEP will be defined.
*/
@ISC_PLATFORM_NEEDSTRSEP@

/*
* If the system needs strlcpy(), ISC_PLATFORM_NEEDSTRLCPY will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCPY@

/*
* If the system needs strlcat(), ISC_PLATFORM_NEEDSTRLCAT will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCAT@

/*
* Define either ISC_PLATFORM_BSD44MSGHDR or ISC_PLATFORM_BSD43MSGHDR.
*/
@ISC_PLATFORM_MSGHDRFLAVOR@

/*
* Define if PTHREAD_ONCE_INIT should be surrounded by braces to
* prevent compiler warnings (such as with gcc on Solaris 2.8).
*/

```

```

@ISC_PLATFORM_BRACEPTHREADONCEINIT@

/*
 * Define on some UnixWare systems to fix erroneous definitions of various
 * IN6_IS_ADDR_* macros.
 */
@ISC_PLATFORM_FIXIN6ISADDR@

****
*** Printing.
***/

/*
 * If this system needs vsnprintf() and snprintf(), ISC_PLATFORM_NEEDVSNPRINTF
 * will be defined.
 */
@ISC_PLATFORM_NEEDVSNPRINTF@

/*
 * If this system need a modern sprintf() that returns (int) not (char*).
 */
@ISC_PLATFORM_NEEDSPRINTF@

/*
 * The printf format string modifier to use with isc_uint64_t values.
 */
@ISC_PLATFORM_QUADFORMAT@

/*
 * Defined if we are using threads.
 */
@ISC_PLATFORM_USETHREADS@

/*
 * Defined if unistd.h does not cause fd_set to be declared.
 */
@ISC_PLATFORM_NEEDSYSSELECTH@

/*
 * Type used for resource limits.
 */
@ISC_PLATFORM_RLIMITTYPE@

/*
 * Define if your compiler supports "long long int".
 */
@ISC_PLATFORM_HAVELONGLONG@

```

```

/*
 * Define if the system has struct lifconf which is a extended struct ifconf
 * for IPv6.
 */
@ISC_PLATFORM_HAVELIFCONF@

/*
 * Define if the system has struct if_laddrconf which is a extended struct
 * ifconf for IPv6.
 */
@ISC_PLATFORM_HAVEIF_LADDRCONF@

/*
 * Define if the system has struct if_laddrreq.
 */
@ISC_PLATFORM_HAVEIF_LADDRREQ@

/*
 * Used to control how extern data is linked; needed for Win32 platforms.
 */
@ISC_PLATFORM_USEDECLSPEC@

/*
 * Define if the system supports if_nametoindex.
 */
@ISC_PLATFORM_HAVEIFNAMETOINDEX@

/*
 * Define if this system needs strtoul.
 */
@ISC_PLATFORM_NEEDSTRTOUL@

/*
 * Define if this system needs memmove.
 */
@ISC_PLATFORM_NEEDMEMMOVE@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#define LIBBIND9_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#ifdef LIBISC_EXPORTS
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)

```

```

#endif
#ifdef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCC_EXPORTS
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif /* ISC_PLATFORM_USEDECLSPEC */

/*
 * Tell emacs to use C mode for this file.
 *
 * Local Variables:
 * mode: c
 * End:
 */

#endif /* ISC_PLATFORM_H */

Found in path(s):
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/platform.h.in
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/result.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/time.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/rwlock.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/base64.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/rwlock.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/time.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/task.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mx\_15.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/result.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/gai\_strerror.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/hex.c

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<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">

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-->

<!-- \$Id: lwres\_resutil.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_resutil</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_string\_parse</refname>

<refname>lwres\_addr\_parse</refname>

<refname>lwres\_getaddrbyname</refname>

<refname>lwres\_getnamebyaddr</refname>

<refpurpose>lightweight resolver utility functions</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_string\_parse</function></funcdef>

<paramdef>lwres\_buffer\_t \*b</paramdef>

<paramdef>char \*\*c</paramdef>

<paramdef>lwres\_uint16\_t \*len</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_addr\_parse</function></funcdef>

<paramdef>lwres\_buffer\_t \*b</paramdef>

<paramdef>lwres\_addr\_t \*addr</paramdef>

```

</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getaddrsbyname</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *name</paramdef>
<paramdef>lwres_uint32_t addrtypes</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getnamebyaddr</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t addrtype</paramdef>
<paramdef>lwres_uint16_t addrlen</paramdef>
<paramdef>const unsigned char *addr</paramdef>
<paramdef>lwres_gnbaresponse_t **structp</paramdef>
</funcprototype>
</functynopsis>
</refsynopsisdiv>

```

```

<refsect1>
<title>DESCRIPTION</title>

```

```

<para>
<function>lwres_string_parse()</function> retrieves a DNS-encoded
string starting the current pointer of lightweight resolver buffer
<parameter>b</parameter>: i.e. <constant>b-&gt;current</constant>.
When the function returns, the address of the first byte of the
encoded string is returned via <parameter>*c</parameter> and the
length of that string is given by <parameter>*len</parameter>. The
buffer's current pointer is advanced to point at the character
following the string length, the encoded string, and the trailing
<type>NULL</type> character.
</para>

```

```

<para>
<function>lwres_addr_parse()</function> extracts an address from the
buffer <parameter>b</parameter>. The buffer's current pointer
<constant>b-&gt;current</constant> is presumed to point at an encoded
address: the address preceded by a 32-bit protocol family identifier
and a 16-bit length field. The encoded address is copied to
<constant>addr-&gt;address</constant> and
<constant>addr-&gt;length</constant> indicates the size in bytes of
the address that was copied. <constant>b-&gt;current</constant> is
advanced to point at the next byte of available data in the buffer

```

following the encoded address.

</para>

<para>

<function>lwres\_getaddrbyname()</function>

and

<function>lwres\_getnamebyaddr()</function>

use the

<type>lwres\_gnbaresponse\_t</type>

structure defined below:

<programlisting>

```
typedef struct {
    lwres_uint32_t    flags;
    lwres_uint16_t    aliases;
    lwres_uint16_t    naddrs;
    char              *realname;
    char              **aliases;
    lwres_uint16_t    realnamelen;
    lwres_uint16_t    *aliaslen;
    lwres_addrlist_t  addrs;
    void              *base;
    size_t            baselen;
} lwres_gabnresponse_t;
```

</programlisting>

The contents of this structure are not manipulated directly but they are controlled through the

<citrefentry>

<refentrytitle>lwres\_gabn</refentrytitle><manvolnum>3

</manvolnum>

</citrefentry>

functions.

</para>

<para>

The lightweight resolver uses

<function>lwres\_getaddrbyname()</function> to perform forward lookups.

Hostname <parameter>name</parameter> is looked up using the resolver context <parameter>ctx</parameter> for memory allocation.

<parameter>addrtypes</parameter> is a bitmask indicating which type of addresses are to be looked up. Current values for this bitmask are

<type>LWRES\_ADDRTYPE\_V4</type> for IPv4 addresses and

<type>LWRES\_ADDRTYPE\_V6</type> for IPv6 addresses. Results of the lookup are returned in <parameter>\*structp</parameter>.

</para>

<para>

<function>lwres\_getnamebyaddr()</function> performs reverse lookups.

Resolver context <parameter>ctx</parameter> is used for memory

allocation. The address type is indicated by  
<parameter>addrtype</parameter>: <type>LWRES\_ADDRTYPE\_V4</type> or  
<type>LWRES\_ADDRTYPE\_V6</type>. The address to be looked up is given  
by <parameter>addr</parameter> and its length is  
<parameter>addrlen</parameter> bytes. The result of the function call  
is made available through <parameter>\*structp</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

Successful calls to

<function>lwres\_string\_parse()</function>

and

<function>lwres\_addr\_parse()</function>

return

<errorcode>LWRES\_R\_SUCCESS.</errorcode>

Both functions return

<errorcode>LWRES\_R\_FAILURE</errorcode>

if the buffer is corrupt or

<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>

if the buffer has less space than expected for the components of the  
encoded string or address.

</para>

<para>

<function>lwres\_getaddrbyname()</function>

returns

<errorcode>LWRES\_R\_SUCCESS</errorcode>

on success and it returns

<errorcode>LWRES\_R\_NOTFOUND</errorcode>

if the hostname

<parameter>name</parameter>

could not be found.

</para>

<para>

<errorcode>LWRES\_R\_SUCCESS</errorcode>

is returned by a successful call to

<function>lwres\_getnamebyaddr()</function>.

</para>

<para>

Both

<function>lwres\_getaddrbyname()</function>

and

<function>lwres\_getnamebyaddr()</function>

return

<errorcode>LWRES\_R\_NOMEMORY</errorcode>

when memory allocation requests fail and  
<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>  
if the buffers used for sending queries and receiving replies are too  
small.  
</para>

</refsect1>  
<refsect1>  
<title>SEE ALSO</title>  
<para>  
<citerefentry>  
<refentrytitle>lwres\_buffer</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>,&br/></para>

<citerefentry>  
<refentrytitle>lwres\_gabn</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>.  
</para>

</refsect1>  
</refentry>

Found in path(s):

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AC\_REVISION(\$Revision: 1.1 \$)

AC\_INIT(resolv/herror.c)

AC\_PREREQ(2.13)

AC\_CONFIG\_HEADER(config.h)

AC\_CANONICAL\_HOST

AC\_PROG\_MAKE\_SET

AC\_PROG\_RANLIB

AC\_PROG\_INSTALL

AC\_SUBST(STD\_CINCLUDES)

AC\_SUBST(STD\_CDEFINES)

AC\_SUBST(STD\_CWARNINGS)

AC\_SUBST(CCOPT)

AC\_PATH\_PROG(AR, ar)

ARFLAGS="cruv"

AC\_SUBST(AR)

AC\_SUBST(ARFLAGS)

# The POSIX ln(1) program. Non-POSIX systems may substitute

# "copy" or something.

LN=ln

AC\_SUBST(LN)

case "\$AR" in

"")

AC\_MSG\_ERROR([

ar program not found. Please fix your PATH to include the directory in  
which ar resides, or set AR in the environment with the full path to ar.

])

;;

esac

#

# Etags.

#

AC\_PATH\_PROGS(ETAGS, etags emacs-etags)

#

# Some systems, e.g. RH7, have the Exuberant Ctags etags instead of

# GNU emacs etags, and it requires the -L flag.

#

if test "X\$ETAGS" != "X"; then

AC\_MSG\_CHECKING(for Exuberant Ctags etags)

if \$ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then

AC\_MSG\_RESULT(yes)

ETAGS="\$ETAGS -L"

else

AC\_MSG\_RESULT(no)

fi

```

fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL, perl5 perl)
AC_SUBST(PERL)

#
# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
'${prefix}/include')
    includedir='${prefix}/bind/include'
    ;;
esac
case "$libdir" in
'${prefix}/lib')
    libdir='${prefix}/bind/lib'
    ;;
esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
case "$INSTALL" in
/*)
    ;;
*)
    #
    # Not all systems have dirname.
    #
    changequote({, })
    ac_dir="`echo $INSTALL | sed 's%/[^\/*]%%'"
    changequote([, ])

    ac_prog="`echo $INSTALL | sed 's%.*%%'"
    test "$ac_dir" = "$ac_prog" && ac_dir=.
    test -d "$ac_dir" && ac_dir="`(cd \"$ac_dir\" && pwd)`"
    INSTALL="$ac_dir/$ac_prog"
    ;;
esac

```

```

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found. The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets $CC to be something, let that override
# our change.
#
if test "X$CC" = "X" ; then
case "$host" in
*-dec-osf*)
    CC="cc"
    ;;
*-solaris*)
        # Use Sun's cc if it is available, but watch
        # out for /usr/ucb/cc; it will never be the right
        # compiler to use.
        #
        # If setting CC here fails, the AC_PROG_CC done
        # below might still find gcc.
IFS="{IFS= }"; ac_save_ifs="$IFS"; IFS=":"
for ac_dir in $PATH; do
    test -z "$ac_dir" && ac_dir=.
    case "$ac_dir" in
/usr/ucb)
        # exclude
        ;;
*)
        if test -f "$ac_dir/cc"; then
            CC="$ac_dir/cc"
            break
        fi
        ;;
esac
done
IFS="$ac_save_ifs"
;;
*-hp-hpux*)
    CC="cc"
    ;;
mips-sgi-irix*)
    CC="cc"
    ;;
esac
fi

```



AC\_PROG\_CC

AC\_HEADER\_STDC

AC\_CHECK\_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/sockio.h sys/select.h sys/timers.h)

AC\_C\_CONST

AC\_C\_INLINE

AC\_TYPE\_SIZE\_T

AC\_HEADER\_TIME

#

# check if we need to #include sys/select.h explicitly

#

case \$ac\_cv\_header\_unistd\_h in

yes)

AC\_MSG\_CHECKING(if unistd.h defines fd\_set)

AC\_TRY\_COMPILE([

#include <unistd.h>],

[fd\_set read\_set; return (0);],

[AC\_MSG\_RESULT(yes)

ISC\_PLATFORM\_NEEDSYNSELECTH="#undef ISC\_PLATFORM\_NEEDSYNSELECTH"

],

[AC\_MSG\_RESULT(no)

case ac\_cv\_header\_sys\_select\_h in

yes)

ISC\_PLATFORM\_NEEDSYNSELECTH="#define ISC\_PLATFORM\_NEEDSYNSELECTH 1"

::

no)

AC\_MSG\_ERROR([need either working unistd.h or sys/select.h])

::

esac

])

::

no)

case ac\_cv\_header\_sys\_select\_h in

yes)

ISC\_PLATFORM\_NEEDSYNSELECTH="#define ISC\_PLATFORM\_NEEDSYNSELECTH 1"

::

no)

AC\_MSG\_ERROR([need either unistd.h or sys/select.h])

::

esac

::

esac

AC\_SUBST(ISC\_PLATFORM\_NEEDSYNSELECTH)

```

#
# Find the machine's endian flavor.
#
AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,[ --with-irs-gr Build ....],
want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
    WANT_IRS_GR_OBJS="\${WANT_IRS_GR_OBJS}"
    ;;
*) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";;
esac
AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,[ --with-irs-pw Build ....],
want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
    WANT_IRS_PW_OBJS="\${WANT_IRS_PW_OBJS}";;
*) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;
esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,[ --with-irs-nis Build ....],
want_irs_nis="$withval", want_irs_nis="no")
case "$want_irs_nis" in
yes)
    WANT_IRS_NIS="#define WANT_IRS_NIS 1"
    WANT_IRS_NIS_OBJS="\${WANT_IRS_NIS_OBJS}"
    case "$want_irs_gr" in
    yes)
        WANT_IRS_NISGR_OBJS="\${WANT_IRS_NISGR_OBJS}";;
    *)
        WANT_IRS_NISGR_OBJS="";;
    esac
    case "$want_irs_pw" in
    yes)
        WANT_IRS_NISPW_OBJS="\${WANT_IRS_NISPW_OBJS}";;
    *)
        WANT_IRS_NISPW_OBJS="";;
    esac
    ;;
*)
    WANT_IRS_NIS="#undef WANT_IRS_NIS"
    WANT_IRS_NIS_OBJS=""

```

```

WANT_IRS_NISGR_OBJS=""
WANT_IRS_NISPW_OBJS="";;
esac
AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR_OBJS)
AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
#ifdef HAVE_DB_H
int have_db_h = 1;
#else
int have_db_h = 0;
#endif
main() { return(!have_db_h); }
],
WANT_IRS_DBPW_OBJS="\${WANT_IRS_DBPW_OBJS}"
,
WANT_IRS_DBPW_OBJS=""
,
WANT_IRS_DBPW_OBJS=""
)
AC_SUBST(WANT_IRS_DBPW_OBJS)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
[ --with-randomdev=PATH Specify path for random device],
use_randomdev="$withval", use_randomdev="unspec")

case "$use_randomdev" in
unspec)
case "$host" in
*-openbsd*)
devrandom=/dev/srandom
;;
*)
devrandom=/dev/random
;;
esac
AC_MSG_RESULT($devrandom)
AC_CHECK_FILE($devrandom,
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV,
"$devrandom"),)
;;
yes)
AC_MSG_ERROR([--with-randomdev must specify a path])

```

```

;;
*)
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
AC_MSG_RESULT(using "$use_randomdev")
;;
esac

#
# Begin pthreads checking.
#
# First, decide whether to use multithreading or not.
#
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
[ --disable-threads disable multithreading])
case "$enable_threads" in
yes|")
AC_MSG_RESULT(yes)
use_threads=true
;;
no)
AC_MSG_RESULT(no)
use_threads=false
;;
*)
AC_MSG_ERROR([--enable-threads takes yes or no])
;;
esac

if $use_threads
then
#
# Search for / configure pthreads in a system-dependent fashion.
#
case "$host" in
*-netbsd*)
# NetBSD has multiple pthreads implementations. The
# recommended one to use is "unproven-pthreads". The
# older "mit-pthreads" may also work on some NetBSD
# versions. The PTL2 thread library does not
# currently work with bind9, but can be chosen with
# the --with-ptl2 option for those who wish to
# experiment with it.
CC="gcc"
AC_MSG_CHECKING(which NetBSD thread library to use)

AC_ARG_WITH(ptl2,
[ --with-ptl2 on NetBSD, use the ptl2 thread library (experimental)],

```

```

    use_ptl2="$withval", use_ptl2="no")

: ${LOCALBASE:=/usr/pkg}

if test "X$use_ptl2" = "Xyes"
then
    AC_MSG_RESULT(PTL2)
    AC_MSG_WARN(
[linking with PTL2 is highly experimental and not expected to work])
    CC=ptlgcc
else
    if test ! -d $LOCALBASE/threads
    then
        AC_MSG_RESULT(none)
        use_threads=false
    fi

    if $use_threads
    then
        AC_MSG_RESULT(mit-threads/unproven-threads)
        pkg="$LOCALBASE/threads"
        lib1="-L$pkg/lib -Wl,-R$pkg/lib"
        lib2="-lthread -lm -lgcc -lthread"
        LIBS="$lib1 $lib2 $LIBS"
        CPPFLAGS="$CPPFLAGS -I$pkg/include"
        STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
    fi
fi
;;
*)
    AC_CHECK_LIB(pthread, pthread_create,,
    AC_CHECK_LIB(pthread, __pthread_create,,
    AC_CHECK_LIB(pthread, __pthread_create_system,,
    AC_CHECK_LIB(c_r, pthread_create,,
    AC_CHECK_LIB(c, pthread_create,,
    use_threads=false))))
;;
esac
fi

if $use_threads
then
    #
    # We'd like to use sigwait() too
    #
    AC_CHECK_LIB(c, sigwait,
        AC_DEFINE(HAVE_SIGWAIT),
        AC_CHECK_LIB(pthread, sigwait,

```

```

    AC_DEFINE(HAVE_SIGWAIT),
    AC_CHECK_LIB(pthread, _Psigwait,
        AC_DEFINE(HAVE_SIGWAIT),))
)

AC_CHECK_FUNC(pthread_attr_getstacksize,
    AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)

#
# Additional OS-specific issues related to pthreads and sigwait.
#
case "$host" in
#
# One more place to look for sigwait.
#
*-freebsd*)
    AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
    ;;
#
# BSDI 3.0 through 4.0.1 needs pthread_init() to be
# called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
*-bsdi3.*|*-bsdi4.0*)
    AC_DEFINE(NEED_PTHREAD_INIT)
    ;;
#
# LinuxThreads requires some changes to the way we
# deal with signals.
#
*-linux*)
    AC_DEFINE(HAVE_LINUXTHREADS)
    ;;
#
# Ensure the right sigwait() semantics on Solaris and make
# sure we call pthread_setconcurrency.
#
*-solaris*)
    AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
    AC_CHECK_FUNC(pthread_setconcurrency,
        AC_DEFINE(CALL_PTHREAD_SETCONCURRENCY))
    AC_DEFINE(POSIX_GETPWUID_R)
    AC_DEFINE(POSIX_GETPWNAM_R)
    AC_DEFINE(POSIX_GETGRGID_R)
    AC_DEFINE(POSIX_GETGRNAM_R)
    ;;
*hpux11*)
    AC_DEFINE(_PTHREADS_DRAFT4)

```

```

;;
#
# UnixWare does things its own way.
#
*-UnixWare*)
    AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)
;;
esac

#
# Look for sysconf to allow detection of the number of processors.
#
AC_CHECK_FUNC(sysconf, AC_DEFINE(HAVE_SYSCONF),)

if test "X$GCC" = "Xyes"; then
    case "$host" in
        *-freebsd*)
            CC="$CC -pthread"
            CCOPT="$CCOPT -pthread"
            STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
            ;;
        *-openbsd*)
            CC="$CC -pthread"
            CCOPT="$CCOPT -pthread"
            ;;
        *-solaris*)
            LIBS="$LIBS -lthread"
            ;;
        *-ibm-aix*)
            STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
            ;;
    esac
else
    case $host in
        *-dec-osf*)
            CC="$CC -pthread"
            CCOPT="$CCOPT -pthread"
            ;;
        *-solaris*)
            CC="$CC -mt"
            CCOPT="$CCOPT -mt"
            ;;
        *-ibm-aix*)
            STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
            ;;
        *-UnixWare*)
            CC="$CC -Kthread"
            CCOPT="$CCOPT -Kthread"

```

```

;;
esac
fi
ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT_IRS_THREADSGR_OBJS="\${WANT_IRS_THREADSGR_OBJS}"
WANT_IRS_THREADSPW_OBJS="\${WANT_IRS_THREADSPW_OBJS}"
WANT_IRS_THREADS_OBJS="\${WANT_IRS_THREADS_OBJS}"
thread_dir=pthreads
else
ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT_IRS_THREADSGR_OBJS=""
WANT_IRS_THREADSPW_OBJS=""
WANT_IRS_THREADS_OBJS=""
thread_dir=nothreads
fi

AC_CHECK_FUNC(strlcat, AC_DEFINE(HAVE_STRLCAT))

AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(DO_PTHREADS)
AC_SUBST(WANT_IRS_THREADSGR_OBJS)
AC_SUBST(WANT_IRS_THREADSPW_OBJS)
AC_SUBST(WANT_IRS_THREADS_OBJS)

AC_CHECK_FUNC(if_nametoindex,
[USE_IFNAMESLINKID="#define USE_IFNAMESLINKID 1"],
[USE_IFNAMESLINKID="#undef USE_IFNAMESLINKID"])
AC_SUBST(USE_IFNAMESLINKID)

ISC_THREAD_DIR=$thread_dir
AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon,
[DAEMON_OBJS="" NEED_DAEMON="#undef NEED_DAEMON"]
,
[DAEMON_OBJS="\${DAEMON_OBJS}" NEED_DAEMON="#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJS)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep,
[STRSEP_OBJS="" NEED_STRSEP="#undef NEED_STRSEP"]
,
[STRSEP_OBJS="\${STRSEP_OBJS}" NEED_STRSEP="#define NEED_STRSEP 1"]
)
AC_SUBST(STRSEP_OBJS)

```



AC\_SUBST(NEED\_STRSEP)

AC\_CHECK\_FUNC(strerror, [NEED\_STRERROR="#undef NEED\_STRERROR"],  
[NEED\_STRERROR="#define NEED\_STRERROR 1"])  
AC\_SUBST(NEED\_STRERROR)

#  
# flockfile is usually provided by pthreads, but we may want to use it  
# even if compiled with --disable-threads.  
#  
AC\_CHECK\_FUNC(flockfile, AC\_DEFINE(HAVE\_FLOCKFILE),)

#  
# Indicate what the final decision was regarding threads.  
#  
AC\_MSG\_CHECKING(whether to build with threads)  
if \$use\_threads; then  
AC\_MSG\_RESULT(yes)  
else  
AC\_MSG\_RESULT(no)  
fi

#  
# End of pthreads stuff.  
#

#  
# Additional compiler settings.  
#  
MKDEPCC="\$CC"  
MKDEPCFLAGS="-M"  
IRIX\_DNSSEC\_WARNINGS\_HACK=""

if test "X\$GCC" = "Xyes"; then  
STD\_CWARNINGS="\$STD\_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"  
else  
case \$host in  
\*-dec-osf\*)  
CC="\$CC -std"  
CCOPT="\$CCOPT -std"  
MKDEPCC="\$CC"  
;;  
\*-hp-hpux\*)  
CC="\$CC -Ae -z"  
# The version of the C compiler that constantly warns about  
# 'const' as well as alignment issues is unfortunately not  
# able to be discerned via the version of the operating  
# system, nor does cc have a version flag.

```

case "`$CC +W 123 2>&1`" in
*Unknown?option*)
STD_CWARNINGS="+w1"
;;
*)
# Turn off the pointlessly noisy warnings.
STD_CWARNINGS="+w1 +W 474,530"
;;
esac
CCOPT="$CCOPT -Ae -z"
LIBS="-Wl,+vnocompatwarnings $LIBS"
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>&1 | awk """"BEGIN {colon=0; rec="";} { for (i = 0 ; i < NF; i++)
{ if (colon && a[$i]) continue; if ($i == "\\") continue; if (!colon) { rec = $i continue; } if ($i == ":") { rec = rec " : "
colon = 1 continue; } if (length(rec $i) > 76) { print rec " \\"; rec = "\t" $i; a[$i] = 1; } else { rec = rec " " $i a[$i] = 1;
} } } END {print rec}"""" >>$TMP'
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>>$TMP'
;;
*-sgi-irix*)
STD_CWARNINGS="-fullwarn -woff 1209"
#
# Silence more than 250 instances of
# "prototyped function redeclared without prototype"
# and 11 instances of
# "variable ... was set but never used"
# from lib/dns/sec/openssl.
#
IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"
;;
*-solaris*)
MKDEPCFLAGS="-xM"
;;
*-UnixWare*)
CC="$CC -w"
;;
esac
fi

#
# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
#
case $host in
*linux*)
STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"
;;
esac

AC_SUBST(MKDEPCC)

```

```

AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

#
# NLS
#
AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS),)

#
# -lxnet buys us one big porting headache... standards, gotta love 'em.
#
# AC_CHECK_LIB(xnet, socket, ,
#   AC_CHECK_LIB(socket, socket)
#   AC_CHECK_LIB(nsl, inet_ntoa)
# )
#
# Use this for now, instead:
#
case "$host" in
  mips-sgi-irix*)
    ;;
  *)
    AC_CHECK_LIB(d4r, gethostbyname_r)
    AC_CHECK_LIB(socket, socket)
    AC_CHECK_LIB(nsl, inet_ntoa)
    ;;
esac

#
# Purify support
#
AC_MSG_CHECKING(whether to use purify)
AC_ARG_WITH(purify,
  [ --with-purify[=PATH] use Rational purify],
  use_purify="$withval", use_purify="no")

case "$use_purify" in
  no)
    ;;
  yes)
    AC_PATH_PROG(purify_path, purify, purify)
    ;;
  *)
    purify_path="$use_purify"
    ;;
esac

```

```

case "$use_purify" in
no)
AC_MSG_RESULT(no)
PURIFY=""
;;
*)
if test -f $purify_path || test $purify_path = purify; then
AC_MSG_RESULT($purify_path)
PURIFYFLAGS=""echo $PURIFYOPTIONS`"
PURIFY="$purify_path $PURIFYFLAGS"
else
AC_MSG_ERROR([$purify_path not found.

```

Please choose the proper path with the following command:

```

configure --with-purify=PATH
])
fi
;;
esac

```

```

AC_SUBST(PURIFY)

```

```

#
# GNU libtool support
#
AC_ARG_WITH(libtool,
[ --with-libtool use GNU libtool (following indented options supported)],
use_libtool="$withval", use_libtool="no")

```

```

case $use_libtool in
yes)
AM_PROG_LIBTOOL
O=lo
A=la
LIBTOOL_MKDEP_SED='s;\.o;\.lo;'
LIBTOOL_MODE_COMPILE='--mode=compile'
LIBTOOL_MODE_INSTALL='--mode=install'
LIBTOOL_MODE_LINK='--mode=link'
;;
*)
O=o
A=a
LIBTOOL=
AC_SUBST(LIBTOOL)
LIBTOOL_MKDEP_SED=
LIBTOOL_MODE_COMPILE=
LIBTOOL_MODE_INSTALL=

```

```

LIBTOOL_MODE_LINK=
;;
esac

#
# File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a

AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

#
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#

#
# IPv6
#
AC_ARG_ENABLE(ipv6,
[ --enable-ipv6 use IPv6 [default=autodetect]])

case "$enable_ipv6" in
yes|"autodetect")
AC_DEFINE(WANT_IPV6)
;;
no)
;;
esac

#
# We do the IPv6 compilation checking after libtool so that we can put
# the right suffix on the files.
#
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>],
[struct sockaddr_in6 sin6; return (0);],
[AC_MSG_RESULT(yes)

```

```

found_ipv6=yes],
[AC_MSG_RESULT(no)
found_ipv6=no])

#
# See whether IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)
AC_ARG_WITH(kame,
[ --with-kame[=PATH] use Kame IPv6 [default path /usr/local/v6]],
use_kame="$withval", use_kame="no")

case "$use_kame" in
no)
;;
yes)
kame_path=/usr/local/v6
;;
*)
kame_path="$use_kame"
;;
esac

case "$use_kame" in
no)
AC_MSG_RESULT(no)
;;
*)
if test -f $kame_path/lib/libinet6.a; then
AC_MSG_RESULT($kame_path/lib/libinet6.a)
LIBS="-L$kame_path/lib -linet6 $LIBS"
else
AC_MSG_ERROR([$kame_path/lib/libinet6.a not found.

Please choose the proper path with the following command:

configure --with-kame=PATH
])
fi
;;
esac

#
# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.
# Including it on Kame-using platforms is very bad, though, because
# Kame uses #error against direct inclusion. So include it on only
# the platform that is otherwise broken without it -- BSD/OS 4.0 through 4.1.

```

```

# This is done before the in6_pktinfo check because that's what
#netinet6/in6.h is needed for.
#
changequote({, })
case "$host" in
*-bsdi4.[01]*)
ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"
isc_netinet6in6_hack="#include <netinet6/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
isc_netinet6in6_hack=""
;;
esac
changequote([, ])

#
# This is similar to the netinet6/in6.h issue.
#
case "$host" in
*-UnixWare*)
ISC_PLATFORM_NEEDNETINETIN6H="#define ISC_PLATFORM_NEEDNETINETIN6H 1"
ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
isc_netinetin6_hack="#include <netinet/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINETIN6H="#undef ISC_PLATFORM_NEEDNETINETIN6H"
ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
isc_netinetin6_hack=""
;;
esac

#
# Now delve deeper into the suitability of the IPv6 support.
#
case "$found_ipv6" in
yes)
HAS_INET6_STRUCTS="#define HAS_INET6_STRUCTS 1"

AC_MSG_CHECKING(for in6_addr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_addr in6; return (0);],

```

```

[AC_MSG_RESULT(yes)
HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
isc_in_addr6_hack=""],
[AC_MSG_RESULT(no)
HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
isc_in_addr6_hack="#define in6_addr in_addr6"])

AC_MSG_CHECKING(for in6addr_any)
AC_TRY_LINK([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
$isc_in_addr6_hack
],
[struct in6_addr in6; in6 = in6addr_any; return (0);],
[AC_MSG_RESULT(yes)
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"],
[AC_MSG_RESULT(no)
NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1"])

AC_MSG_CHECKING(for sin6_scope_id in struct sockaddr_in6)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_in6 xyzy; xyzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
result="#define HAVE_SIN6_SCOPE_ID 1"],
[AC_MSG_RESULT(no)
result="#undef HAVE_SIN6_SCOPE_ID"])
HAVE_SIN6_SCOPE_ID="$result"

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_pktinfo xyzy; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"],

```



```

[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO")]

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinet6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_storage xyzzy; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SOCKADDR_STORAGE="#define HAVE_SOCKADDR_STORAGE 1"],
[AC_MSG_RESULT(no)
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"])
;;
no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"
;;
esac

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINETIN6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_IN_ADDR6)
AC_SUBST(NEED_IN6ADDR_ANY)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)
AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs to come after checking for a Kame add-on,

```

```

# which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_ntop(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_ntop.c"
ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"])
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_pton(0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON 1"])
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[struct in_addr in; inet_aton(0, &in); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1"])

AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)

#
# Look for a 4.4BSD-style sa_len member in struct sockaddr.

```

```

#
case "$host" in
*-dec-osf*)
    # Turn on 4.4BSD style sa_len support.
    AC_DEFINE(_SOCKADDR_LEN)
    ;;
esac

AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct sockaddr sa; sa.sa_len = 0; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)

# HAVE_MINIMUM_IFREQ

case "$host" in
*-bsdi[2345]*) have_minimum_ifreq=yes;;
*-darwin*) have_minimum_ifreq=yes;;
*-freebsd*) have_minimum_ifreq=yes;;
*-lynxos*) have_minimum_ifreq=yes;;
*-netbsd*) have_minimum_ifreq=yes;;
*-next*) have_minimum_ifreq=yes;;
*-openbsd*) have_minimum_ifreq=yes;;
*-rhapsody*) have_minimum_ifreq=yes;;
esac

case "$have_minimum_ifreq" in
yes)
    HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;
no)
    HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
*)
    HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
esac
AC_SUBST(HAVE_MINIMUM_IFREQ)

# PORT_DIR
PORT_DIR=port/unknown
SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"
case "$host" in

```

```

*aix3.2*) PORT_DIR="port/aix32";;
*aix4*) PORT_DIR="port/aix4";;
*aux3*) PORT_DIR="port/aux3";;
*-bsdi2*) PORT_DIR="port/bsdos2";;
*-bsdi*) PORT_DIR="port/bsdos";;
*-cygwin*) PORT_DIR="port/cygwin";;
*-darwin*) PORT_DIR="port/darwin";;
*-osf*) PORT_DIR="port/decunix";;
*-freebsd*) PORT_DIR="port/freebsd";;
*-hpux9*) PORT_DIR="port/hpux9";;
*-hpux10*) PORT_DIR="port/hpux10";;
*-hpux11*) PORT_DIR="port/hpux";;
*-irix*) PORT_DIR="port/irix";;
*-linux*) PORT_DIR="port/linux";;
*-lynxos*) PORT_DIR="port/lynxos";;
*-mpe*) PORT_DIR="port/mpe";;
*-netbsd*) PORT_DIR="port/netbsd";;
*-next*) PORT_DIR="port/next";;
*-openbsd*) PORT_DIR="port/openbsd";;
*-qnx*) PORT_DIR="port/qnx";;
*-rhapsody*) PORT_DIR="port/rhapsody";;
*-solaris2.[[01234]]*)
    BSD_COMP="#define BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
    PORT_DIR="port/solaris";;
*-solaris2.5*)
    BSD_COMP="#define BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    PORT_DIR="port/solaris";;
*-solaris2*) BSD_COMP="#define BSD_COMP 1"
    PORT_DIR="port/solaris";;
*-ultrix*) PORT_DIR="port/ultrix";;
*-sco-sysv*uw2.0*) PORT_DIR="port/unixware20";;
*-sco-sysv*uw2.1.2*) PORT_DIR="port/unixware212";;
*-sco-sysv*uw7*) PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

#
# Look for a 4.4BSD or 4.3BSD struct msghdr
#

```

```

AC_MSG_CHECKING(for struct msghdr flavor)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct msghdr msg; msg.msg_flags = 0; return (0);],
[AC_MSG_RESULT(4.4BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"],
[AC_MSG_RESULT(4.3BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"])
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

```

```

#
# Look for in_port_t.
#
AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <netinet/in.h>],
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
[AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDPORTT="#define ISC_PLATFORM_NEEDPORTT 1"])
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

```

```

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE([
#include <netdb.h>],
[struct addrinfo a; return (0);],
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO)],
[AC_MSG_RESULT(no)])

```

```

AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = sethostent(0); return(0);],
[AC_MSG_RESULT(yes)],
[AC_MSG_RESULT(no)])

```

```

AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endhostent(); return(0);],
[AC_MSG_RESULT(yes)

```

```

ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"])
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)

AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = setnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"])
AC_SUBST(ISC_LWRES_SETNETENTINT)

AC_MSG_CHECKING(for int endnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"])
AC_SUBST(ISC_LWRES_ENDNETENTINT)

AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE([
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);],
[return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"])
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE([
#include <netdb.h>],
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO"],
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"])
AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,
[ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"],

```

```

[ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"])
AC_CHECK_FUNC(getnameinfo,
    [ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"],
    [ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"])
AC_CHECK_FUNC(getaddrinfo,
    [ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"
AC_DEFINE(HAVE_GETADDRINFO)],
    [ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
    [NEED_PSELECT="#undef NEED_PSELECT"],
    [NEED_PSELECT="#define NEED_PSELECT"])
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
    [NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
    [NEED_GETTIMEOFDAY="#define NEED_GETTIMEOFDAY 1"])
AC_SUBST(NEED_GETTIMEOFDAY)
AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
    [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [
#include <sys/param.h>
#include <sys/sysctl.h>
#include <sys/socket.h>
#ifdef NET_RT_IFLIST
found_rt_iflist
#endif
],
    [AC_MSG_RESULT(yes)
    AC_DEFINE(HAVE_IFLIST_SYSCTL)],
    [AC_MSG_RESULT(no)])

#
# Check for some other useful functions that are not ever-present.
#
AC_CHECK_FUNC(strsep,
    [ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],
    [ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,

```

```

[ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
[ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS print.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS print.c"
ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1")
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)

AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
[USE_SYSEERROR_LIST="#undef USE_SYSEERROR_LIST"],
[USE_SYSEERROR_LIST="#define USE_SYSEERROR_LIST 1"])
AC_SUBST(USE_SYSEERROR_LIST)

#
# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(l)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "l"'],
[AC_MSG_RESULT(ll)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "ll"'],
[AC_MSG_RESULT(default ll)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "ll"'])
AC_SUBST(ISC_PLATFORM_QUADFORMAT)

#
# Security Stuff
#
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))

#
# for accept, recvfrom, getpeername etc.
#
AC_MSG_CHECKING(for socket length type)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, socklen_t *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T socklen_t"
AC_MSG_RESULT(socklen_t)]
,

```



```

AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned int *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned int"
AC_MSG_RESULT(unsigned int)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned long *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned long"
AC_MSG_RESULT(unsigned long)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, long *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long)]
,
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T int"
AC_MSG_RESULT(int)
))))
AC_SUBST(ISC_SOCKLEN_T)

AC_CHECK_FUNC(getgrouplist,
AC_TRY_COMPILE(
[#include <unistd.h>
int
getgrouplist(const char *name, int basegid, int *groups, int *ngroups) {
}
],
[return (0);],
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int
*ngroups"
,
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"
),
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
)
AC_SUBST(GETGROUPLIST_ARGS)

```

```
AC_CHECK_FUNC(setgroupent,,AC_DEFINE(NEED_SETGROUPEMENT))
```

```
AC_CHECK_FUNC(getnetbyaddr_r,
```

```
AC_TRY_COMPILE(
```

```
[
```

```
#undef _REENTRANT
```

```
#define _REENTRANT
```

```
#define _OSF_SOURCE
```

```
#undef __USE_MISC
```

```
#define __USE_MISC
```

```
#include <netdb.h>
```

```
struct netent *
```

```
getnetbyaddr_r(long net, int type, struct netent *result, char *buffer,
```

```
int buflen) { }
```

```
],
```

```
[return (0)],
```

```
[
```

```
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
```

```
NET_R_BAD="#define NET_R_BAD NULL"
```

```
NET_R_COPY="#define NET_R_COPY buf, buflen"
```

```
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
```

```
NET_R_OK="#define NET_R_OK nptr"
```

```
NET_R_SETANSWER="#undef NET_R_SETANSWER"
```

```
NET_R_RETURN="#define NET_R_RETURN struct netent *"
```

```
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
```

```
NETENT_DATA="#undef NETENT_DATA"
```

```
],
```

```
AC_TRY_COMPILE(
```

```
[
```

```
#undef _REENTRANT
```

```
#define _REENTRANT
```

```
#define _OSF_SOURCE
```

```
#undef __USE_MISC
```

```
#define __USE_MISC
```

```
#include <netdb.h>
```

```
int getnetbyaddr_r (unsigned long int, int, struct netent *,
```

```
char *, size_t, struct netent **, int *);
```

```
],
```

```
[return (0)],
```

```
[
```

```
NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errnop"
```

```
NET_R_BAD="#define NET_R_BAD ERANGE"
```

```
NET_R_COPY="#define NET_R_COPY buf, buflen"
```

```
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS char *buf, size_t buflen"
```

```
NET_R_OK="#define NET_R_OK 0"
```

```
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
```

```
NET_R_RETURN="#define NET_R_RETURN int"
```

```

GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"
],
AC_TRY_COMPILE(
#undef __USE_MISC
#define __USE_MISC
[#include <netdb.h>
int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
],
)
)
)
)
)
,

```

```

NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
)
case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void setnetent_r (int);
], [return (0);], [
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
],
AC_TRY_COMPILE(
[
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int setnetent_r(int, struct netent_data *);
], [return (0);], [
NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
],
)

```

```

)
,
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
)
AC_SUBST(NET_R_ENT_ARGS)
AC_SUBST(NET_R_SET_RESULT)
AC_SUBST(NET_R_SET_RETURN)

AC_CHECK_FUNC(endnetent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endnetent_r (void);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) return (x)"
NET_R_END_RETURN="#define NET_R_END_RETURN int"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
)

```

```

)
)
,
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
)
AC_SUBST(NET_R_END_RESULT)
AC_SUBST(NET_R_END_RETURN)

AC_CHECK_FUNC(getgrnam_r,,AC_DEFINE(NEED_GETGRNAM_R))
AC_CHECK_FUNC(getgrgid_r,,AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrent_r,
AC_TRY_COMPILE(
[
#include <grp.h>
struct group *getgrent_r(struct group *grp, char *buffer,
    int buflen) { }
] ,[return (0);],[
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
] ,
)
,
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
AC_DEFINE(NEED_GETGRENT_R)
)
AC_SUBST(GROUP_R_ARGS)
AC_SUBST(GROUP_R_BAD)
AC_SUBST(GROUP_R_OK)
AC_SUBST(GROUP_R_RETURN)

AC_CHECK_FUNC(endgrent_r,
,
GROUP_R_END_RESULT="#define GROUP_R_END_RESULT(x) /*empty*/"
GROUP_R_END_RETURN="#define GROUP_R_END_RETURN void"
GROUP_R_ENT_ARGS="#define GROUP_R_ENT_ARGS void"
AC_DEFINE(NEED_ENDGRENT_R)
)
AC_SUBST(GROUP_R_END_RESULT)
AC_SUBST(GROUP_R_END_RETURN)
AC_SUBST(GROUP_R_ENT_ARGS)

```

```

AC_CHECK_FUNC(setgrent_r,
,
GROUP_R_SET_RESULT="#undef GROUP_R_SET_RESULT /*empty*/"
GROUP_R_SET_RETURN="#define GROUP_R_SET_RETURN void"
AC_DEFINE(NEED_SETGRENT_R)
)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)


AC_CHECK_FUNC(gethostbyname_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct hostent *gethostbyname_r
(const char *name, struct hostent *hp, char *buf, int len, int *h_errnop) { }
],
[return (0);],
[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int gethostbyname_r(const char *name,
                    struct hostent *result,
                    struct hostent_data *hdptr);
],,
HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
HOST_R_BAD="#define HOST_R_BAD (-1)"
HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"

```

```

HOSTENT_DATA="#define HOSTENT_DATA 1"
],
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int gethostbyname_r (const char *,
                           struct hostent *,
                           char *, size_t,
                           struct hostent **,
                           int *);

],[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"
],
)))
,
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
)
AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT

```



```

#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int endhostent_r(struct hostent_data *buffer);
], ,
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(struct hostent_data *ht_data);
],[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(void);
],[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
],
)
)
)
,
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
)
AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT

```

```

#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void sethostent_r(int flag, struct hostent_data *ht_data);[],
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT /*empty*/"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int sethostent_r(int flag, struct hostent_data *ht_data);[],
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      sethostent_r (int);[],
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
)
)
)
,
HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"
)
AC_SUBST(HOST_R_SET_RESULT)
AC_SUBST(HOST_R_SET_RETURN)

```

```

AC_MSG_CHECKING(struct passwd element pw_class)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
],[struct passwd *pw; pw->pw_class = "";],
AC_MSG_RESULT(yes)
AC_DEFINE(HAS_PW_CLASS)
,
AC_MSG_RESULT(no)
)

```

```

AC_TRY_COMPILE([

```

```

#include <sys/types.h>
#include <pwd.h>
void
setpwent(void) { }
],
[return (0);],
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)

AC_TRY_COMPILE([
#include <sys/types.h>
#include <grp.h>
void
setgrent(void) { }
],
[return (0);],
SETGRENT_VOID="#define SETGRENT_VOID 1"
,
SETGRENT_VOID="#undef SETGRENT_VOID"
)
AC_SUBST(SETGRENT_VOID)

AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, int l) { }
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC

```

```

#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) { }
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetgrent_r( char **, char **, char **, void **);
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS void **buf"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
NGR_R_PRIVATE="#define NGR_R_PRIVATE 1"
]
,
)
)
)
,
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
)
AC_SUBST(NGR_R_ARGS)
AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)

```

```

AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(endnetgrent_r,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) return (x)"
NGR_R_END_RETURN="#define NGR_R_END_RETURN int"
NGR_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"
,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"
NGR_R_END_RETURN="#define NGR_R_END_RETURN void"
NGR_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGRENT_R)
)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)

AC_CHECK_FUNC(setnetgrent_r,
[
case "$host" in
*bsdi*)
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
;;
*)
NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
;;
esac
]
,
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
)
AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(innetgr_r,,AC_DEFINE(NEED_INNETGR_R))

AC_CHECK_FUNC(getprotoent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct protoent *getprotoent_r(struct protoent *result,
char *buffer, int buflen) { }

```

```

]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);

]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
PROTO_R_OK="#define PROTO_R_OK 0"
PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="#define PROTO_R_RETURN int"
]
,
)
,
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
)
AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)

```

```

AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)

AC_CHECK_FUNC(endprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endprotoent_r(void);
]
,
[
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS"
]
,
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/"
)
AC_SUBST(PROTO_R_END_RESULT)
AC_SUBST(PROTO_R_END_RETURN)
AC_SUBST(PROTO_R_ENT_ARGS)

AC_CHECK_FUNC(setprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void          setprotoent_r __P((int));
],[],
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
,
)
,

```

```

PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
)
AC_SUBST(PROTO_R_SET_RESULT)
AC_SUBST(PROTO_R_SET_RETURN)

AC_CHECK_FUNC(getpwent_r,
AC_TRY_COMPILE(
[
#include <sys/types.h>
#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) { }
]
,
[]
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
,
)
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
AC_DEFINE(NEED_GETPWENT_R)
)
AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)

AC_CHECK_FUNC(endpwent_r,
AC_TRY_COMPILE(
[
#include <pwd.h>
void endpwent_r(FILE **pwfp);
], ,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"

```



```

PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
,
)
,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#undef PASS_R_ENT_ARGS"
AC_DEFINE(NEED_ENDPWENT_R)
)
AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r,,AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))

AC_CHECK_FUNC(setpwent_r,
AC_TRY_COMPILE([
#include <pwd.h>
void setpwent_r(FILE **pwfp);
], ,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
AC_TRY_COMPILE([
#include <pwd.h>
int setpwent_r(FILE **pwfp);
], ,
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
)
)
,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /*empty*/"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"
AC_DEFINE(NEED_SETPWENT_R)
)
AC_SUBST(PASS_R_SET_RESULT)
AC_SUBST(PASS_R_SET_RETURN)

AC_CHECK_FUNC(getpwnam_r,,AC_DEFINE(NEED_GETPWNAM_R))
AC_CHECK_FUNC(getpwuid_r,,AC_DEFINE(NEED_GETPWUID_R))

AC_CHECK_FUNC(getservent_r,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC

```

```

#include <netdb.h>
struct servent *
getservent_r(struct servent *result, char *buffer, int buflen) { }
],[return (0);],
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK spttr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getservent_r (struct servent *, char *, size_t, struct servent **);
],[return (0);],
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
SERV_R_BAD="#define SERV_R_BAD ERANGE"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS char *buf, size_t buflen"
SERV_R_OK="#define SERV_R_OK (0)"
SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
SERV_R_RETURN="#define SERV_R_RETURN int"
]
,
)
,
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK spttr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)

```

AC\_SUBST(SERV\_R\_RETURN)

AC\_CHECK\_FUNC(endservent\_r,

AC\_TRY\_COMPILE(

[

#undef \_REENTRANT

#define \_REENTRANT

#undef \_\_USE\_MISC

#define \_\_USE\_MISC

#include <netdb.h>

void endservent\_r(void);

]

,

,

[

SERV\_R\_END\_RESULT="#define SERV\_R\_END\_RESULT(x) /\*empty\*/"

SERV\_R\_END\_RETURN="#define SERV\_R\_END\_RETURN void "

SERV\_R\_ENT\_ARGS="#undef SERV\_R\_ENT\_ARGS /\*empty\*/"

]

,

)

,

SERV\_R\_END\_RESULT="#define SERV\_R\_END\_RESULT(x) /\*empty\*/"

SERV\_R\_END\_RETURN="#define SERV\_R\_END\_RETURN void "

SERV\_R\_ENT\_ARGS="#undef SERV\_R\_ENT\_ARGS /\*empty\*/"

)

AC\_SUBST(SERV\_R\_END\_RESULT)

AC\_SUBST(SERV\_R\_END\_RETURN)

AC\_SUBST(SERV\_R\_ENT\_ARGS)

AC\_CHECK\_FUNC(setservent\_r,

AC\_TRY\_COMPILE(

[

#undef \_REENTRANT

#define \_REENTRANT

#undef \_\_USE\_MISC

#define \_\_USE\_MISC

#include <netdb.h>

void        setservent\_r(int);

]

”

[

SERV\_R\_SET\_RESULT="#undef SERV\_R\_SET\_RESULT"

SERV\_R\_SET\_RETURN="#define SERV\_R\_SET\_RETURN void"

]

,

)

,

```

SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
)
AC_SUBST(SERV_R_SET_RESULT)
AC_SUBST(SERV_R_SET_RETURN)

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int inetgr(const char *netgroup, const char *host, const char *user, const char *domain);
]
,,
[
INETGR_ARGS="#undef INNETGR_ARGS"
]
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int inetgr(char *netgroup, char *host, char *user, char *domain);
]
,,
[
INETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"
]
,
))

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(const char *);
]

```

```

”
[
SETNETGRENТ_ARGS="#undef SETNETGRENТ_ARGS"
]
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(char *);
]
”
[
SETNETGRENТ_ARGS="#define SETNETGRENТ_ARGS char *netgroup"
]
,
))
AC_SUBST(SETNETGRENТ_ARGS)
AC_SUBST(INNETGR_ARGS)

#
# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?
#
AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
*-bsdi3.1*)
hack_shutup_sputaux=yes
;;
*-bsdi4.0*)
hack_shutup_sigwait=yes
hack_shutup_sputaux=yes
hack_shutup_in6addr_init_macros=yes
;;
*-bsdi4.1*)
hack_shutup_stdargcast=yes
;;
*-solaris2.8)
hack_shutup_pthreadonceinit=yes
hack_shutup_in6addr_init_macros=yes
;;

```

esac

case "\$hack\_shutup\_pthreadonceinit" in

yes)

#

# Shut up PTHREAD\_ONCE\_INIT unbraced initializer warnings.

#

ISC\_PLATFORM\_BRACEPTHREADONCEINIT="#define ISC\_PLATFORM\_BRACEPTHREADONCEINIT 1"

::

esac

case "\$hack\_shutup\_sigwait" in

yes)

#

# Shut up a -Wmissing-prototypes warning for sigwait().

#

AC\_DEFINE(SHUTUP\_SIGWAIT)

::

esac

case "\$hack\_shutup\_sputaux" in

yes)

#

# Shut up a -Wmissing-prototypes warning from <stdio.h>.

#

AC\_DEFINE(SHUTUP\_SPUTAUX)

::

esac

case "\$hack\_shutup\_stdargcast" in

yes)

#

# Shut up a -Wcast-qual warning from va\_start().

#

AC\_DEFINE(SHUTUP\_STDARG\_CAST)

::

esac

case "\$hack\_shutup\_in6addr\_init\_macros" in

yes)

AC\_DEFINE(BROKEN\_IN6ADDR\_INIT\_MACROS)

::

esac

#

# Substitutions

#

AC\_SUBST(BIND9\_TOP\_BUILDDIR)

BIND9\_TOP\_BUILDDIR=`pwd`

AC\_SUBST\_FILE(BIND9\_INCLUDES)

BIND9\_INCLUDES=\$BIND9\_TOP\_BUILDDIR/make/includes

AC\_SUBST\_FILE(BIND9\_MAKE\_RULES)

BIND9\_MAKE\_RULES=\$BIND9\_TOP\_BUILDDIR/make/rules

. \$srcdir/../../version

BIND9\_VERSION="VERSION=\${MAJORVER}.\${MINORVER}.\${PATCHVER}\${RELEASETYPE}\${RELEASEVER}"

AC\_SUBST(BIND9\_VERSION)

AC\_SUBST\_FILE(LIBBIND\_API)

LIBBIND\_API=\$srcdir/api

AC\_OUTPUT(

make/rules

make/mkdep

make/includes

Makefile

bsd/Makefile

dst/Makefile

include/Makefile

inet/Makefile

irs/Makefile

isc/Makefile

nameser/Makefile

port\_after.h

port\_before.h

resolv/Makefile

port/Makefile

\${PORT\_DIR}/Makefile

\${PORT\_INCLUDE}/Makefile

)

# Tell Emacs to edit this file in shell mode.

# Local Variables:

# mode: sh

# End:

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 \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/rhapsody/include/sys/bitypes.h

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 ; \$Id: bindevt.mc,v 1.1 2004/11/03 01:39:06 abstine Exp \$

MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)

OutputBase = 16

MessageId=0x1

Severity=Error

Facility=Application

SymbolicName=BIND\_ERR\_MSG



Language=English

%1

.

MessageId=0x2

Severity=Warning

Facility=Application

SymbolicName=BIND\_WARN\_MSG

Language=English

%1

.

MessageId=0x3

Severity=Informational

Facility=Application

SymbolicName=BIND\_INFO\_MSG

Language=English

%1

.

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.\"

.\" The following six UNCOMMENTED lines are required.

.\"Os OPERATING\_SYSTEM [version/release]

.\"Dt DOCUMENT\_TITLE [section number] [volume]

.\" The following requests should be uncommented and

.\" used where appropriate. This next request is

.\" for sections 2 and 3 function return values only.

.\" This next request is for sections 1, 6, 7 & 8 only

.\ " .Sh ENVIRONMENT  
.\ " .Sh EXAMPLES  
.\ " This next request is for sections 1, 6, 7 & 8 only  
.\ " (command return values (to shell) and  
.\ " fprintf/stderr type diagnostics)  
.\ " .Sh DIAGNOSTICS  
.\ " The next request is for sections 2 and 3 error  
.\ " and signal handling only.  
.\ " .Sh STANDARDS  
.\ " .Sh HISTORY  
.\ " .Sh BUGS

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Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/isdn\_20.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/compress.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/callbacks.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/rdataslab.h  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/dnssec.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/tsig.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/log.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/masterdump.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/hs\_4/a\_1.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/journal.c  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/nsap\_22.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/zt.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/events.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/netaddr.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/acl.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/ncache.h  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/zt.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/ratelimiter.h  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/aaaa\_28.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/acl.c

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<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">

<!--

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-->

<!-- \$Id: lwres\_getrrsetbyname.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Oct 18, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getrrsetbyname</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getrrsetbyname</refname>

<refname>lwres\_freerrset</refname>

<refpurpose>retrieve DNS records</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

int

<function>lwres\_getrrsetbyname</function></funcdef>

<paramdef>const char \*hostname</paramdef>

<paramdef>unsigned int rdclass</paramdef>

<paramdef>unsigned int rdtype</paramdef>

<paramdef>unsigned int flags</paramdef>

<paramdef>struct rrsetinfo \*\*res</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres\_freerrset</function></funcdef>

<paramdef>struct rrsetinfo \*rrset</paramdef>

</funcprototype>

</funcsynopsis>

<para>

The following structures are used:

<programlisting>

```
struct rdatainfo {
    unsigned int    rdi_length; /* length of data */
    unsigned char   *rdi_data; /* record data */
};

struct rrsetinfo {
    unsigned int    rri_flags; /* RRSET_VALIDATED... */
    unsigned int    rri_rdtype; /* class number */
    unsigned int    rri_rdtype; /* RR type number */
    unsigned int    rri_ttl; /* time to live */
    unsigned int    rri_nrdatas; /* size of rdatas array */
    unsigned int    rri_nsigs; /* size of sigs array */
    char            *rri_name; /* canonical name */
    struct rdatainfo *rri_rdatas; /* individual records */
    struct rdatainfo *rri_sigs; /* individual signatures */
};
```

</programlisting>

</para>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_getrrsetbyname()</function>

gets a set of resource records associated with a

<parameter>hostname</parameter>,

<parameter>class</parameter>,

and

<parameter>type</parameter>.

<parameter>hostname</parameter>

is

a pointer to a null-terminated string. The

<parameter>flags</parameter>

field is currently unused and must be zero.

</para>

<para>

After a successful call to

<function>lwres\_getrrsetbyname()</function>,

<parameter>\*res</parameter>

is a pointer to an

<type>rrsetinfo</type>

structure, containing a list of one or more

<type>rdatainfo</type>

structures containing resource records and potentially another list of

<type>rdatainfo</type>

structures containing SIG resource records

associated with those records.

The members

<constant>rri\_rdclass</constant>

and

<constant>rri\_rdtype</constant>

are copied from the parameters.

<constant>rri\_ttl</constant>

and

<constant>rri\_name</constant>

are properties of the obtained rrset.

The resource records contained in

<constant>rri\_rdatas</constant>

and

<constant>rri\_sigs</constant>

are in uncompressed DNS wire format.

Properties of the rdataset are represented in the

<constant>rri\_flags</constant>

bitfield. If the RRSET\_VALIDATED bit is set, the data has been DNSSEC validated and the signatures verified.

</para>

<para>

All of the information returned by

<function>lwres\_getrrsetbyname()</function>

is dynamically allocated: the

<constant>rrsetinfo</constant>

and

<constant>rdatainfo</constant>

structures,

and the canonical host name strings pointed to by the

<constant>rrsetinfo</constant> structure.

Memory allocated for the dynamically allocated structures created by a successful call to

<function>lwres\_getrrsetbyname()</function>

is released by

<function>lwres\_freerrset()</function>.

<parameter>rrset</parameter>

is a pointer to a

<type>struct rrset</type>

created by a call to

<function>lwres\_getrrsetbyname()</function>.

</para>

<para>

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_getrrsetbyname()</function>

returns zero on success, and one of the following error codes if an error occurred:

<variablelist>

<varlistentry><term><constant>ERRSET\_NONAME</constant></term>

<listitem><para>

the name does not exist

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_NODATA</constant></term>

<listitem><para>

the name exists, but does not have data of the desired type

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_NOMEMORY</constant></term>

<listitem><para>

memory could not be allocated

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_INVALID</constant></term>

<listitem><para>

a parameter is invalid

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_FAIL</constant></term>

<listitem><para>

other failure

</para></listitem></varlistentry>

<varlistentry><term><constant></constant></term>

<listitem><para>

</para></listitem></varlistentry>

</variablelist>

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

```
<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>
```

```
</refsect1>
</refentry>
```

Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gettrsetbyname.docbook

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```
/*
 * eventlib.em
 *
 * Eventlib error message compiler input file
 *
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 */

/*
 * The file basename is the facility name, the name is made
 * uppercase. This file defines facility EVENTLIB
 */
module {
    description "EVENTLIB system messages";
}

errmsg HISTSUMM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
    arg {
        "int" dispatch_time "event dispatch time";
        "int" elapsed_time "event elapsed time";
        "int" hog_detected "event hog detected";
        "int" set_count "event set count since dispatch"
    }
    explanation
        "Eventlib historical summary for detected hog.";

    action
        "This event summary is part of a CPUHOG or TIMEHOG error, "
        "providing diagnostic details useful to engineering. "
```

```

"Save this summary message along with the HOG error. ";

    tac_details
        "Eventlib historical summary for detected hog.";
}

errmsg HISTELEM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

format "elem[%u] event: %s %s set: %llums unset: %llums hog check: %d caller: %p app-info: %s";

    arg {
        "int" set_count "element set count";
        "char *" position_string "event call type";
        "char *" position_string "event condition";
        "int" set_time "element set time";
        "int" unset_time "element unset time";
        "int" hog_check "element hog check result";
        "int" caller "caller builtin return address";
        "char *" any_string "element callback render buffer";
    }
    explanation
        "Eventlib historical element for detected hog.";

    action
        "This event element is part of a CPUHOG or TIMEHOG error, "
        "providing diagnostic details useful to engineering. "
        "Save all element messages along with the HOG error. ";

    tac_details
        "Eventlib historical element for detected hog.";
}

```

Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/eventlib.em

# 1.438 libgpg-error 1.31

## 1.438.1 Available under license :

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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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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

-----

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

| Device | Boot | Start | End | Sectors | Size | Id | Type |
|--------|------|-------|-----|---------|------|----|------|
|--------|------|-------|-----|---------|------|----|------|

|            |  |      |      |      |    |    |       |
|------------|--|------|------|------|----|----|-------|
| <removed>1 |  | 2048 | 4095 | 2048 | 1M | 83 | Linux |
|------------|--|------|------|------|----|----|-------|

-----

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023 bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

| Device     | Boot | Start | End   | Sectors | Size | Id | Type    |
|------------|------|-------|-------|---------|------|----|---------|
| <removed>1 |      | 2048  | 4095  | 2048    | 1M   | 83 | Linux   |
| <removed>2 |      | 4096  | 20479 | 16384   | 8M   | a5 | FreeBSD |

-----

Create default BSD

2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: bsd

partitions: 4

| Slice | Start | End   | Sectors | Size | Type   | Fsize | Bsize | Cpg |
|-------|-------|-------|---------|------|--------|-------|-------|-----|
| c     | 4096  | 20479 | 16384   | 8M   | unused | 0     | 0     | 0   |
| d     | 0     | 16064 | 16065   | 7.9M | unused | 0     | 0     | 0   |

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-----

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: BSD  
partitions: 4

|   | Slice | Start | End   | Sectors | Size   | Type | Fsize | Bsize | Cpg |
|---|-------|-------|-------|---------|--------|------|-------|-------|-----|
| a | 4096  | 6144  | 2049  | 1M      | 4.2BSD | 0    | 0     | 0     |     |
| c | 4096  | 20479 | 16384 | 8M      | unused | 0    | 0     | 0     |     |
| d | 0     | 16064 | 16065 | 7.9M    | unused | 0    | 0     | 0     |     |

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-----

Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

|   |           |   |                |   |          |    |       |
|---|-----------|---|----------------|---|----------|----|-------|
| 0 | unused    | 5 | 4.1BSD         | 9 | 4.4LFS   | d  | boot  |
| 1 | swap      | 6 | Eighth Edition | a | unknown  | e  | ADOS  |
| 2 | Version 6 | 7 | 4.2BSD         | b | HPFS     | f  | HFS   |
| 3 | Version 7 | 8 | MS-DOS         | c | ISO-9660 | 10 | AdvFS |
| 4 | System V  |   |                |   |          |    |       |

Command (m for help):

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## 1.440 dnf 4.4.2

### 1.440.1 Available under license :

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

/\*

\*-----

```

* erp_cfg_parser.c - ERP config parser code
*
* August 2011
*
* Copyright (c) 2011-2012, 2016-2017, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_cfg_parser.c
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* erp_ctrl_sm.c
* G.8032 ERP Controller state machine
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2020 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_ctrl_sm.c
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* erp_ctrl.c - ERP Controller common code
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2014, 2016-2019, 2021 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_ctrl.c
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* erp_ctrl_ha.c - ERP Controller HA common code
*

```

```
* Sep 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2011, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_ctrl_ha.c
No license file was found, but licenses were detected in source scan.
```

```
#
# erp_ring.zn - Oxide rules file
#
# June 2018, Gangadhara Valluri
#
# Copyright (c) 2018 by cisco Systems, Inc.
# All rights reserved.
#
```

```
name: erp_ring;
type: erp_ring_t;
type: erp_instance_t;
type: erp_port_id_t;
type: erp_profile_t;
type: erp_instance_stats_t;
type: erp_port_info_t;
type: erp_l2req_state_t;
type: erp_raps_encap_t;
type: xos_bitlist_handle;
type: xos_list_t;
type: xos_list_element_t;
```

Found in path(s):

```
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_ring.zn
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* erp_io_pak.c - ERP IO packet handling source file
*
* August 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_io\_pak.c

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

/\*

\*-----

\* erp\_io.c - ERP IO common code

\*

\* July 2010, Viet Nguyen

\*

\* Copyright (c) 2010-2011, 2016-2017 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_io.c

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

/\*

\*-----

\* erp\_ctrl.sm - Ethernet Ring Protection Controller state machine

\*

\* June 2010, Viet Nguyen

\*

\* Copyright (c) 2010-2011, 2019 by Cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

XOS\_SM\_EVENTLIST\_BEGIN

XOS\_SM\_EVENT(init)

XOS\_SM\_EVENT(clear)

XOS\_SM\_EVENT(fs)

XOS\_SM\_EVENT(aps\_fs)

XOS\_SM\_EVENT(local\_sf)

XOS\_SM\_EVENT(local\_clear\_sf)

XOS\_SM\_EVENT(aps\_sf)

XOS\_SM\_EVENT(aps\_ms)

XOS\_SM\_EVENT(ms)

XOS\_SM\_EVENT(wtr\_expires)

XOS\_SM\_EVENT(wtb\_expires)

XOS\_SM\_EVENT(aps\_nr\_rb)

XOS\_SM\_EVENT(aps\_nr)

XOS\_SM\_EVENT(ack)

XOS\_SM\_EVENTLIST\_END

/\*

```

* State machine states
* - Init,
* A_Idle,
* B_Protection,
* C_ManualSwitch,
* D_ForcedSwitch,
* E_Pending
*/

```

```

XOS_SM_STATE_BEGIN(init)
    XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
    XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_init_ack, E_Pending)
XOS_SM_STATE_END

```

```

XOS_SM_STATE_BEGIN(A_Idle)
    XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_A_Idle_ack, A_Idle)
    XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

```

```

XOS_SM_STATE_BEGIN(B_Protection)
    XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
        B_Protection) /* wait ack */
    XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_local_clear_sf,
        B_Protection) /* wait ack */
    XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_B_Protection_ack, B_Protection)
    XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */

```



XOS\_SM\_STATE\_END

XOS\_SM\_STATE\_BEGIN(C\_ManualSwitch)

```
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs,
    C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
    C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, C_ManualSwitch)
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf,
    C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_C_ManualSwitch_ack,
    C_ManualSwitch)
```

XOS\_SM\_STATE\_END

XOS\_SM\_STATE\_BEGIN(D\_ForcedSwitch)

```
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_D_ForcedSwitch_ack,
    D_ForcedSwitch)
```

XOS\_SM\_STATE\_END

XOS\_SM\_STATE\_BEGIN(E\_Pending)

```
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, E_Pending) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
    E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, E_Pending) /* wait ack */
```

```
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_wtr_expires,
    E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_wtb_expires,
    E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb,
    E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_E_Pending_ack, E_Pending)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END
```

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_ctrl.sm

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

```
/*
*-----
* erp_ridb.c
* G.8032 Ring/Instance Database
*
* July 2010, Mark Bilstad
*
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*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_ridb.c

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

```
/*
*-----
* erp_debug.c - G.8032 Ethernet Ring Protection debug routines
*
* June 2010, Viet Nguyen
*
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* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_debug.c

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

```
/*
```

```

*-----
* erp_io_ha.c - ERP IO HA common code
*
* Sep 2010, Ramachandran Ramanujalu
*
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*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_io_ha.c
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* erp_pd_caps_stubs.c - ERP Controller stub file
*
* July 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2011 by cisco Systems, Inc.
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*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_pd_caps_stubs.c
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* erp_io.sm - Ethernet Ring Protection Controller state machine
*
* June 2010, Viet Nguyen
*
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* All rights reserved.
*-----
*/

```

XOS\_SM\_EVENTLIST\_BEGIN

```

XOS_SM_EVENT(init)
XOS_SM_EVENT(clear)
XOS_SM_EVENT(fs)
XOS_SM_EVENT(aps_fs)
XOS_SM_EVENT(local_sf)
XOS_SM_EVENT(local_clear_sf)
XOS_SM_EVENT(aps_sf)

```

```
XOS_SM_EVENT(aps_ms)
XOS_SM_EVENT(ms)
XOS_SM_EVENT(wtr_expires)
XOS_SM_EVENT(wtb_expires)
XOS_SM_EVENT(aps_nr_rb)
XOS_SM_EVENT(aps_nr)
XOS_SM_EVENT(ack)
XOS_SM_EVENTLIST_END
```

```
/*
```

```
* State machine states
```

```
* - Init,
```

```
* A_Idle,
```

```
* B_Protection,
```

```
* C_ManualSwitch,
```

```
* D_ForcedSwitch,
```

```
* E_Pending
```

```
*/
```

```
XOS_SM_STATE_BEGIN(init)
```

```
    XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
```

```
    XOS_SM_TRANSITION(ack, erp_io_sm_action_init_ack, E_Pending)
```

```
XOS_SM_STATE_END
```

```
XOS_SM_STATE_BEGIN(A_Idle)
```

```
    XOS_SM_TRANSITION(clear, erp_io_sm_action_null, A_Idle) /* wait ack */
```

```
    XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, A_Idle) /* wait ack */
```

```
    XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, A_Idle) /* wait ack */
```

```
    XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, A_Idle) /* wait ack */
```

```
    XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, A_Idle) /* wait ack */
```

```
    XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, A_Idle) /* wait ack */
```

```
    XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, A_Idle) /* wait ack */
```

```
    XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, A_Idle) /* wait ack */
```

```
    XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, A_Idle) /* wait ack */
```

```
    XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, A_Idle) /* wait ack */
```

```
    XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, A_Idle) /* wait ack */
```

```
    XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, A_Idle) /* wait ack */
```

```
    XOS_SM_TRANSITION(ack, erp_io_sm_action_A_Idle_ack, A_Idle)
```

```
    XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
```

```
XOS_SM_STATE_END
```

```
XOS_SM_STATE_BEGIN(B_Protection)
```

```
    XOS_SM_TRANSITION(clear, erp_io_sm_action_null, B_Protection)
```

```
    XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, B_Protection) /* wait ack */
```

```
    XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, B_Protection) /* wait ack */
```

```
    XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, B_Protection) /* wait ack */
```

```
    XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_local_clear_sf, B_Protection) /* wait ack */
```

```
    XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, B_Protection) /* wait ack */
```

```

XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_B_Protection_ack, B_Protection)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(C_ManualSwitch)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, C_ManualSwitch)
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_C_ManualSwitch_ack, C_ManualSwitch)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_D_ForcedSwitch_ack, D_ForcedSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(E_Pending)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, E_Pending) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, E_Pending) /* wait ack */

```

```
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_wtr_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_wtb_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_E_Pending_ack, E_Pending)
XOS_SM_STATE_END
```

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_io.sm

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

```
/*
*-----
* erp_pdb.h
* G.8032 Profile Database
*
* July 2010, Mark Bilstad
*
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*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_pdb.c

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

```
/*
*-----
* erp_common.c - ERP common code
*
* July 2010, Viet Nguyen
*
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*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_common.c

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

```
/*
*-----
```

```

* erp_io_sm.c
* G.8032 ERP IO state machine
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2012, 2014-2017, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/

Found in path(s):
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_io_sm.c

```

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```
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Riccardo Magliocchetti

Yann Malet, Lincoln Loop

Simon Litchfield

Masahiro Honma, <hiratara@cpan.org>

ukasz Wrblewski <admin@nri.pl>

Giacomo Bagnoli, Asidev

Guido Notari, Link I.T. S.p.a.

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Roberto Leandrini

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Danila Shtan <danila@shtan.ru>

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Yu Zhao (getcwd)

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

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

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

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

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

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

That's all there is to it!

# 1.446 diffutils 3.7 r0

## 1.446.1 Available under license :

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## 1.447 nanopb 0.3.9.3

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## 1.448 libssh2 1.8.0

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

notice is found.

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

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

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

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

That's all there is to it!  
This package was debianized by Jean Pierre LeJacq  
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt  
<martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner  
<jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,  
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,  
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:

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. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

-----

-----

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=  
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=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

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-- 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

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Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

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Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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=20

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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

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Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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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  
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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  
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> > 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  
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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.umd.edu ([131.151.0.192]) by UMR-CMAIL1.umd.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.umd.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.umd.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 191Gxtpr020623  
for <nneul@umd.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.umd.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@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

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

Happy now? :-)

-a

-----  
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

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> -----Original Message-----

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> [mailto:cracklib-devel-bounces@li...] On Behalf Of

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> To: cracklib-devel@li...

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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 Fry singer <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: (gmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.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@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=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@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

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

Happy now? :-)

-a

# 1.458 coreutils 8.32 r0

## 1.458.1 Available under license :

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Version 3, 29 June 2007

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## 1.461 hostname 3.20

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# 1.463 gdbm 1.18

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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```
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```

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```

```
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## 1.468 e2fsprogs

## 1.42.99+1.43+git0+0f26747167 r0

### 1.468.1 Available under license :

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 ss  
command-line interface parsing library library. It is currently  
distributed together with the EXT2 file system utilities, which are  
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,  
from sources obtained from a mirror of:  
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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

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

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

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) $(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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Theodore Ts'o

23-June-2007

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```
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```
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```

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

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

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

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

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

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# 1.470 systemd 239

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### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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# 1.472 libxcrypt 4.4.17 r0

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## 1.473 cryptography 3.3.1

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# 1.474 pycparser 2.20

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pycparser -- A C parser in Python

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# 1.475 wget 1.19.5

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```

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

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# 1.482 rfc3987 1.3.8 r0

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## 1.483 elfutils-default-yama-scope 0.182

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\* /opt/cola/permits/1267355127\_1644279706.6/0/filesystem-3.8-3.el8.src.rpm-cosi-expand-archive-0SFSH1Rw/filesystem.spec

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