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1.2 dpdk 19.11.6

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This package was added to the e2fsprogs debian source package by
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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
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Gadi Oxman, August 1995

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

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

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#
This is 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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1.4 swtpm2 0.5+git0+12de4f8206-r0

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1.8 bash 5.0-r0

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notice like this when it starts in an interactive mode:

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1.9 open-vm-tools 11.0.1-r0

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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.

- Maciej Grela (https://github.com/mgrela) contributed the initial
 --initstring option implementation.

- Baruch Siach (https://github.com/baruchsiach) contributed
 improvements to the Makefile

- Christopher N. Hesse (https://github.com/raymanfx) contributed the
 initial Android makefile

- Ben (https://github.com/the-dem) contributed backward compatibility
 fixes.

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1.11 libptpd_zls30390_uea 4.7.2

1.11.1 Available under license :

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```
/*******************************************************************************
*
*  $Id: zl303xx_RdWr.h 8176 2012-05-03 17:43:59Z PC $
*  Copyright 2006-2016 Microsemi Semiconductor Limited.
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*
*  Module Description:
*     Control functions for device MAC interface(s)
*
*******************************************************************************/
```

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* /zls30390-ng-tar-gz/zls30390_ng/zlApi/include/zl303xx_RdWr.h
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```
/*****************************************************************************
*
*  $Id: zl303xx.h 13892 2016-07-25 20:26:33Z RF $
*  Copyright 2006-2016 Microsemi Semiconductor Limited.
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*
*  Module Description:
*     High level header file defining components of the zl303xx API.
*
*****************************************************************************/
```

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* /zls30390-ng-tar-gz/zls30390_ng/zlApi/include/zl303xx.h
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```
/*****************************************************************************
*
*  $Id: zl303xx_Ptsf.c 15688 2017-08-23 18:28:54Z SW $
*
*  Copyright 2006-2016 Microsemi Semiconductor Limited.
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*
*  Module Description:
*     This file contains the packet timing signal fail (PTSF) implementation.
*
*****************************************************************************/
```

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* /zls30390-ng-tar-gz/zls30390_ng/zlApi/src/zl303xx_Ptsf.c
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```
/*****************************************************************************
*
*  $Id: zl303xx_AddressMap.h 13892 2016-07-25 20:26:33Z RF $
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*
*  Module Description:
*     Values and constants for the device internal address map
*
*****************************************************************************/
```

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* /zls30390-ng-tar-gz/zls30390_ng/zlApi/include/zl303xx_AddressMap.h
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```
/*****************************************************************************
*
*  $Id: zl303xx_Init.h 13668 2016-06-24 21:22:21Z DP $
*  Copyright 2006-2016 Microsemi Semiconductor Limited.
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*
*  Module Description:
*     Device initialisation functions
*
*****************************************************************************/
```

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* /zls30390-ng-tar-gz/zls30390_ng/zlApi/include/zl303xx_Init.h
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```
/*****************************************************************************
*
*  $Id: zl303xx_DeviceSpec.h 13908 2016-07-28 19:10:53Z RF $
*
*  Copyright 2006-2016 Microsemi Semiconductor Limited.
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*
*  Module Description:
*     Generic Timing Device structure definition (Params are populated for ZL30360)
*
*****************************************************************************/
/* Customized protocols, using proprietary 8 byte header for routing */
```

Found in path(s):
* /zls30390-ng-tar-gz/zls30390_ng/zlApi/include/zl303xx_DeviceSpec.h
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```
/*****************************************************************************
*
*  $Id: zl303xx_TSDebug.h 9352 2013-02-20 22:11:33Z PC $
*
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*
*  Module Description:
*     Time stamp logging/debug data types.
*
*****************************************************************************/
```

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* /zls30390-ng-tar-gz/zls30390_ng/zlApi/include/zl303xx_TSDebug.h
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```
/*****************************************************************************
*
*  $Id: zl303xx_List.c 12998 2016-01-28 21:05:08Z SW $
*
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*
*  Module Description:
*     Functions to implement a doubly-linked list.
*
*****************************************************************************/
```

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* /zls30390-ng-tar-gz/zls30390_ng/zlApi/src/zl303xx_List.c
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```
/*****************************************************************************
*
*  $Id: zl303xx_Macros.h 12989 2016-01-25 20:32:46Z DP $
*
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*
*  Module Description:
*     Various macros for use anywhere in the API.
*
*****************************************************************************/
```

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```
/*****************************************************************************
*
*  $Id: zl303xx_Pkt.h 8358 2012-06-08 15:51:56Z DP $
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*
*  Module Description:
*     Interface functions for packet send/receive
*
*
*****************************************************************************/
```

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* /zls30390-ng-tar-gz/zls30390_ng/zlApi/include/zl303xx_Pkt.h
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```
/*****************************************************************************
*
*  $Id: zl303xx_Ptsf.h 15688 2017-08-23 18:28:54Z SW $
*
*  Copyright 2006-2016 Microsemi Semiconductor Limited.
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*
*  Module Description:
*    This file contains the packet timing signal fail (PTSF) API.
*
*    A PTSF flag represents a specific type of failure for each timing stream used
*    to perform clock recovery. Each PTSF flag can be individually masked, and
*    flags may be used to generate higher-level flags. The following diagram
*    represents the entire PTSF tree:
*
*    Level 1
*    =======
*    PTSF-user ------------------> & mask ---> |
*    PTSF-QLTooLow --------------> & mask ---> |
*    PTSF-LOSFromPHY ------------> & mask ---> | ---> PTSF-misc
*    PTSF-waitToRestoreActive ---> & mask ---> |
*
*    PTSF-retryAttemptsFail -----> & mask ---> |
*    PTSF-announceRejected ------> &
 mask ---> |
*    PTSF-syncRejected ----------> & mask ---> |
*    PTSF-delayRespRejected -----> & mask ---> | ---> PTSF-contract
*    PTSF-pdelayRespRejected ----> & mask ---> |
*    PTSF-announceRateTooLow ----> & mask ---> |
*    PTSF-syncRateTooLow --------> & mask ---> |
*    PTSF-delayRespRateTooLow ---> & mask ---> |
*    PTSF-pdelayRespRateTooLow --> & mask ---> |
*
*    PTSF-lossAnnounce ----------> & mask ---> |
*    PTSF-lossSync --------------> & mask ---> |
*    PTSF-lossFollowUp ----------> & mask ---> | ---> PTSF-timeOut
*    PTSF-lossSyncOrFollowUp ----> & mask ---> |
*    PTSF-lossDelayResp ---------> & mask ---> |
*    PTSF-lossPdelayResp --------> & mask ---> |
*    PTSF-lossPdelayFollowUp ----> & mask ---> |
*
*    PTSF-packetRejectReset -----------> & mask ---> |
*    PTSF-lossTimeStamps ----------------> & mask ---> | ---> PTSF-unusable
*    PTSF-localTimeInaccuracyExceeded ----> & mask ---> |
*    PTSF-networkTimeInaccuracyExceeded --> & mask
```

```
 ---> |
*
*    PTSF-pullInRangeOOR --------> & mask ---> |
*    PTSF-PDVFreqMetricFail -----> & mask ---> |
*    PTSF-freqVarTooHigh --------> & mask ---> | ---> PTSF-frequency
*    PTSF-notFreqLock -----------> & mask ---> |
*
*    PTSF-pullInRangeOOR --------> & mask ---> |
*    PTSF-PDVPhaseMetricFail ----> & mask ---> |
*    PTSF-phaseVarTooHigh -------> & mask ---> | ---> PTSF-phase
*    PTSF-notPhaseLock ----------> & mask ---> |
*    PTSF-frequency -------------> & mask ---> |
*
*    Level 2
*    =======
*    PTSF-misc --------> & mask ---> |
*    PTSF-contract ----> & mask ---> |
*    PTSF-timeout -----> & mask ---> |
*    PTSF-unusable ----> & mask ---> | ---> PSTF (overall)
*    PTSF-frequency ---> & mask ---> |
*    PTSF-phase -------> & mask ---> |
*
*    The following diagram shows how PTSF data can accessed or modified at each
*    point in the tree:
*
*       +--- zl303xx_PtsfFlagSet()
*       |                   +--- zl303xx_PtsfMaskSet()
*
      |                   |
*       v                   v
*    PTSF-example --------+---> & mask -----+--->
*                   |       |      |
*                   |       |      +--- zl303xx_PtsfFlagGetAndMask() + callback
*                   |       +--- zl303xx_PtsfMaskGet()
*                   +--- zl303xx_PtsfFlagGet()
*
*    A callback function can be registered using zl303xx_PtsfCallbackSet(). This
*    function will be executed when the value of the PTSF flag changes after
*    the mask has been applied.
*
*    Only the following flags should be modified by the user. All other flags
*    are set automatically by other API modules.
*      PTSF-user
*      PTSF-LOSFromPHY
*      PTSF-PDVFreqMetricFail
*      PTSF-freqVarTooHigh
*      PTSF-PDVPhaseMetricFail
*      PTSF-phaseVarTooHigh
```

```
*
*  Trace information (ZL303XX_MOD_ID_PTSF):
*     ALWAYS: Initialization errors
*           1: Run-time errors (in getter/setter
 functions)
*           2: (reserved)
*           3: PTSF flag changes (after mask applied) & mask changes
*           4: User callback executed
*           5: PTSF flag changes (before mask applied)
*
******************************************************************************/
```

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* /zls30390-ng-tar-gz/zls30390_ng/zlApi/include/zl303xx_Ptsf.h
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```
/*****************************************************************************
*
*  $Id: zl303xx_ApiConfig.h 13452 2016-05-13 15:45:19Z DP $
*  Copyright 2006-2016 Microsemi Semiconductor Limited.
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*
*  Module Description:
*     Functions for setting and getting the user configurable parameters.
*
******************************************************************************/
```

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* /zls30390-ng-tar-gz/zls30390_ng/zlApi/include/zl303xx_ApiConfig.h
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```
/*****************************************************************************
*
*  File name:              zl303xx_ApiVersion.c
*
*  Copyright 2006-2016 Microsemi Semiconductor Limited.
*  All rights reserved.
*
*  Module Description:
*
*  Contains the build information for the Microsemi API.
*
******************************************************************************/
```

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* /zls30390-ng-tar-gz/zls30390_ng/zlApi/src/zl303xx_ApiVersion.c
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```
/*****************************************************************************
*
*  $Id: zl303xx_List.h 10065 2013-09-25 15:44:04Z PC $
*
*  Copyright 2006-2016 Microsemi Semiconductor Limited.
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*
*  Module Description:
*     Doubly-linked list API.
*
*****************************************************************************/
```

Found in path(s):
* /zls30390-ng-tar-gz/zls30390_ng/zlApi/include/zl303xx_List.h
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```
/*****************************************************************************
*
*  $Id: zl303xx_Params.h 6058 2011-06-10 14:37:16Z AW $
*  Copyright 2006-2016 Microsemi Semiconductor Limited.
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*
*  Module Description:
*     Prototypes for structure initialisation and locking.
*
*****************************************************************************/
```

Found in path(s):
* /zls30390-ng-tar-gz/zls30390_ng/zlApi/include/zl303xx_Params.h

1.12 libbcm_quadra28 1.2

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1.13 bash4 4.2-r6

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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. :-)
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
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id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@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 spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@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/~spcecdt/
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

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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

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1.14 chardet 3.0.4-r0

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1.15 ncclient 0.6.9-r0

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1.16 urllib3 1.25.8-r0

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test
 coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield

<https://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* 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

* Benjamen 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 <ttomecek@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>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <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>
 * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
 * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <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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1.17 pyopenssl 19.1.0-r0

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

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

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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
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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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1.28 pycparser 2.20-r0

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1.29 screen 4.8.0-r0

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* /8a069b44260e1260b17c69e7950e3583d8eebc26pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/reload.py
* /8a069b44260e1260b17c69e7950e3583d8eebc26pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/security.py
* /8a069b44260e1260b17c69e7950e3583d8eebc26pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/infra/notify.py
*

/8a069b44260e1260b17c69e7950e3583d8eebc26pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/device.py
* /8a069b44260e1260b17c69e7950e3583d8eebc26pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/device_info.py
* /8a069b44260e1260b17c69e7950e3583d8eebc26pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/objects.py
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* /8a069b44260e1260b17c69e7950e3583d8eebc26pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/monitor.py
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* /8a069b44260e1260b17c69e7950e3583d8eebc26pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/script_exec.py
* /8a069b44260e1260b17c69e7950e3583d8eebc26pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/faults.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):
* /8a069b44260e1260b17c69e7950e3583d8eebc26pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/setup.cfg
No license file was found, but licenses were detected in source scan.

license='Cisco Proprietary',

Found in path(s):
* /8a069b44260e1260b17c69e7950e3583d8eebc26pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/setup.py
No license file was found, but licenses were detected in source scan.

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: pnp-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

Found in path(s):
* /8a069b44260e1260b17c69e7950e3583d8eebc26pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/PKG-INFO
* /8a069b44260e1260b17c69e7950e3583d8eebc26pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp.egg-info/PKG-INFO

1.31 libffi 3.3-r0

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1.32 gnutls 3.6.14-r0

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##
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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 (jbsr). 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
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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

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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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Version 3, 29 June 2007

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

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

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

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

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

c) Convey individual copies of the object code with a copy of the

written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

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1.48 pyasn1 0.4.8-r0

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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8

Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
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Found in path(s):
* /a9e0a0881f3aba18021c35684352018e9e7485dcpyasn1-0-4-8-tar-gz/pyasn1-0.4.8/PKG-INFO
* /a9e0a0881f3aba18021c35684352018e9e7485dcpyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO

1.49 btrfs-tools 5.7-r0

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1.50 curl 7.72.0-r0

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License Mixing
==========

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.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html)
licensed code is not allowed to be linked with code licensed under the
[Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the
announcement clause). You may still build your own copies that use them all,
but distributing them as binaries would be to violate the GPL license - unless
you accompany your license with an
[exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This
particular problem
was addressed when the [Modified BSD
license](https://opensource.org/licenses/BSD-3-Clause) was created, which does
not have the announcement clause that collides with GPL.

libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is
very liberal.

OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an
announcement clause that makes it "incompatible" with GPL. You are not
allowed to ship binaries that link with OpenSSL that includes GPL code
(unless that specific GPL code includes an exception for OpenSSL - a habit
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for you, consider using another TLS library.

GnuTLS

(May be used for SSL/TLS support) Uses the
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for you, consider using another TLS library. Also note that GnuTLS itself
depends on and uses other libs (libgcrypt and libgpg-error) and they too
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NSS

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c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very
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zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license
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MIT Kerberos

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Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the
announcement clause.

GNU GSS

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distribute binary curl packages that uses this if you build curl to also link
and use any Original
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libidn

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL
is a variation of GPL with slightly less aggressive "copyleft". This license
requires more requirements to be met when distributing binaries, see the
license for details. Also note that if you distribute a binary that includes
this library, you must also include the full LGPL license text. Please
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OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses
OpenLDAP as a shared library only, I have not heard of anyone that ships
OpenLDAP linked with libcurl in an app.

libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

1.51 pytz 2020.1-r0

1.51.1 Available under license :

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1.52 libvirt 6.3.0-r0

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1.54 engine.io 3.13.2-r0

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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.

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

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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(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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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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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,
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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distribute.

7. You may place library facilities that are a work based on the
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TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

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1. Source Code.

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

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

is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
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implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
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available free
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which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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

b) Convey the object code in, or embodied in, a physical product

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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

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

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.

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To prevent this, the GPL
assures that patents cannot be used to render the program non-free.

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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than the work as a whole, that (a) is included in the normal form of
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Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
``Major Component'', in this context,
 means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

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

The Corresponding Source need not include anything that users can
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separately received it.

@item
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6b.

@item
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1.70 smartmontools 7.1-r0

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1.72 cryptsetup 2.3.4-r0

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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.

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It may happen that this requirement contradicts the license

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

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 *
 * stdio.c
 * by Mark Gates <mgates@nlanr.net>
 * and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
 * ----------------------------------------------------------------
 * input and output numbers, converting with kilo, mega, giga
 * ---------------------------------------------------------------- */
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1.76 expat 2.2.9-r0

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<!-- 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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  </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
 - End:
-->
```

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1.78 python 3.8.5-r0

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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) GPL-compatible doesn't mean that we're distributing Python under
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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Thanks to the many outside volunteers who have worked under Guido's
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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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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,
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sections when you distribute them as separate works. But when you
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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.

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

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1.80 pytest 6.1.0-r0

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library
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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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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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The modified work must itself be a software library.

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You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

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You must
cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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table, the facility still operates, and performs whatever part of
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(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
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These requirements apply to the modified work as a whole. If
identifiable sections
of that work are not derived from the Library,
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themselves, then this License, and its terms, do not apply to those
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entire whole, and thus to each and every part regardless of who wrote
it.

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collective works based on the Library.

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it with the complete corresponding machine-readable source code, which
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As an exception to the Sections above, you may also combine or
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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
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@item
Use a suitable shared library mechanism for linking with the Library. A
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and (2) will operate
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1.82 python-pip 20.0.2-r0

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contextlib2 is a derivative of the contextlib module distributed by the PSF
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Python was created in the early 1990s by Guido van Rossum at Stichting
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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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Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	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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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)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes

2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
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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	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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==========

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1.85 python3-asn1crypto 1.4.0-r0

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1.92 coreutils 8.32-r0

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1.93 socketio 4.6.0-r0

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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

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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
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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

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

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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.

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

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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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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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1.98 libyaml 0.2.5-r0

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

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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.

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

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

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

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

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Protocol Buffers for Go with Gadgets

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

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1.105 popt 1.18-r0

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1.110 protobuf 3.13.0.1-r0

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* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

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1.111 libgcc 10.2.0-r0

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1.115 wcwidth 0.2.5-r0

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1.116 grpc 1.24.3-r0

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1.117 libidn 2.3.0-r0

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1.118 findutils 4.7.0-r0

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1.120 python3-pygobject 3.36.1-r0

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1.121 iputils s20200821-r0

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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---
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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>

   1963, 1964, 1965 Jane Doe

   2018 Joe Blow, John Coe

   1977, 1985 Someone else

 </body>
</html>
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<?xml version="1.0" encoding="UTF-8"?>
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"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>
```

```
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1.124 cpio 2.13-r0

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

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

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

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

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

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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
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Once this change is made in a given copy, it is irreversible for
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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
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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
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distribute.

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facilities not covered by this License, and distribute such a combined
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the Library and of the other library facilities is otherwise
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 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.129 markupsafe 1.1.1-r0

1.129.1 Available under license :

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

*   License: `BSD-3-Clause <https://github.com/pallets/markupsafe/blob/master/LICENSE.rst>`_

Found in path(s):
* /c2f67b300f91fdcc2a6abc0fc67818fad6e2ee4amarkupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/README.rst
BSD-3-Clause

1.130 libselinux-python 3.0-r0

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1.131 util-linux 2.36-r0

1.131.1 Available under license :

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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decide to use it. You
can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that

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

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

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

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

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

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

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a

combined work, a derivative of the original library. The ordinary General Public License therefore permits
such linking only if the
entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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

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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.

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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.)

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gevent/libuv/_corecffi_source.c
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Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

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1.138 libcap 2.43-r0

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1.140 libevent 2.1.12-r0

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1.141 networkx 2.5-r0

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1.142 python-dbus 1.2.16-r0

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1.143 gawk 5.1.0-r0

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

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1.146 openssh 8.3p1-r0

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*
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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.147 strace 5.8-r0

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1.148 py 1.9.0-r0

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1.149 elfutils 0.180-r0

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1.152 pyparsing 2.4.7-r0

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1.153 json-c 0.15-r0

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1.154 mtd-utils 2.1.2-r0

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1.155 pyudev 0.22.0-r0

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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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(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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1.161 dtc 1.6.0-r0

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1.166 sg3-utils 1.45-r0

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1.167 jansson 2.13.1-r0

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1.172 paramiko 2.7.2

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1.174 cffi 1.14.4

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1.175 pycparser 2.20

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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
****
* @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 STMicrolectronics STM32 IOT Discovery Kit
*          based on FlightSense.
*          This application makes use of C++ classes obtained from the C
*          components' drivers.
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* /stm32duino-vl53l0x-1-0-2-0-g13c23c5-1-tar-gz/stm32duino-VL53L0X-13c23c5/src/vl53l0x_types.h
*
/stm32duino-vl53l0x-1-0-2-0-g13c23c5-1-tar-gz/stm32duino-VL53L0X-13c23c5/src/vl53l0x_platform_log.h
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*
/stm32duino-vl53l0x-1-0-2-0-g13c23c5-1-tar-gz/stm32duino-VL53L0X-13c23c5/src/vl53l0x_interrupt_threshold_settings.h
No license file was found, but licenses were detected in source scan.

/**
****
* @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 STMicrolectronics 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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```
/**
******************************************************************************
* @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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```
/**
******************************************************************************
* @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 STMicrolectronics STM32 IOT Discovery Kit
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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
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* /stm32duino-vl53l0x-1-0-2-0-g13c23c5-1-tar-gz/stm32duino-VL53L0X-13c23c5/src/RangeSensor.h

1.180 ethtool 5.8-r0

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1.183 bcm_seahawks 1.2

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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP217/src/c_eip217.h
*

/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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* /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
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*
* File: memregs.h
* Purpose: Memory entry declarations, memory and register macros

*
*/

Found in path(s):
* /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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$Id$
*/
/** 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):
* /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
* /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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* to ESSEmbeddedHW-Support@insidesecure.com.
*****************************************************************************/
/** Specifies the driver license type for the driver registration inside the
   Linux kernel, GPL or Proprietary */
```

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_driver.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):
* /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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*
* File: rx.h
* Purpose: Packet Receive Reason Types shared between BCM and SOC layers
*/

Found in path(s):
* /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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*
*
*/
/*
*
* $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):
* /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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*
* General utility routines
*/

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<tr class="memitem:a1c8f9fa7a255053b1d561938628d5f44"><td class="memItemLeft" align="right" valign="top">unsigned char </td><td class="memItemRight" valign="bottom">confidentiality_offset</td></tr>
<td class="memname">unsigned char bcm_plp_base_t_secy_sa_i_t::confidentiality_offset</td>

Found in path(s):
* /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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* /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
* /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
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/core/phymod_debug.c
* /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
*
/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/core/phymod_acc.c
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*
* File: phyecd.c
* Purpose: PHY ECD routines
*/

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* /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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**/

Found in path(s):
* /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
* /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
*
/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
* /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
* /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
* /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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```

* this header file defines types used in driver services.
*/

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* /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/drvtypes.h
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* This header file defines packet formats for Ethernet and Broadcom stacking.
*/

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<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>

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*
* File: spl.h
* Purpose: Interrupt Blocking
*/

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* /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
*
/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
* /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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*
* S-Channel Message: data structure used by firmware to transport
* S-Channel Data into SOC via CMIC.
*/

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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/schanmsg.h
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* Chip symbol table definitions.
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* File: drv.h
* Purpose: Link Layer interface (PHY)
*/

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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):
* /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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*
*
* DO NOT EDIT THIS FILE!
*
*/

Found in path(s):
* /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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/*
* $Id: port_ability.h,v 1.23 Broadcom SDK $
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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):
* /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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*  $Id$
```

*/

Found in path(s):
* /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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*
*/
/*
*
* $Id: phymod.c,v 1.2.2.13 2013/08/12 11:43:46 dayad Exp $
*
* $Copyright:
* All Rights Reserved.$
*
*
*/

Found in path(s):
* /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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* $Id: phy542xx_cfg_seq.c $
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*/

Found in path(s):
* /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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*
* $Id: phymod.xml,v 1.1.2.5 Broadcom SDK $
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*
*/

Found in path(s):
* /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
* /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: alloc.h
* Purpose: Memory allocation
*/

Found in path(s):
* /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
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Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/make/depend.mk
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/make/lib.mk
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/make/maketools.mk
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/make/config.mk
* /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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```
# 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 is 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 //! or ///
# 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 penality.
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 rougly 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. 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 abled 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
# <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):
* /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.

/***
* Copyright (c) 2012-2016 INSIDE Secure B.V. All Rights Reserved.
*
* This confidential and proprietary software may be used only as authorized
* by a licensing agreement from INSIDE Secure.
*
* The entire notice above must be reproduced on all authorized copies that
* may only be made to the extent permitted by a licensing agreement from
* INSIDE Secure.
*
* For more information or support, please go to our online support system at
* 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):
* /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.h
* /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_interrupts_ext.h
*
/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_interrupts.c
* /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_driver160_init_ext.h
* /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
No license file was found, but licenses were detected in source scan.

#
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 - bcmpmFirmwareLoadMethodNone Do not download firmware

1 - bcmpmFirmwareLoadMethodInternal Internal Firmware Download: MDIO download

2 - bcmpmFirmwareLoadMethodExternal Reserved for future use

3 - bcmpmFirmwareLoadMethodProgEEPROM Reserved for future use

firmware_load_type.force_load_method Force firmware load method

0 - bcmpmFirmwareLoadSkip Skip firmware download if firmware is already present

1 - bcmpmFirmwareLoadForce Always download the firmware specified by firmware load method

2 - bcmpmFirmwareLoadAuto 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=bcmpmFirmwareLoadMethodInternal;

firmware_load_type.force_load_method=bcmpmFirmwareLoadForce;

Identify list of PHY's that needs to be broadcasted on a MDIO Bus which is refered 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, bcmpmFirmwareBroadcastCoreReset); ## 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 acheived 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):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/README
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*
* AXP management routines
*/

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* /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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*
* File: socdma.h
* Purpose: Maps out structures used for DMA operations and
*   exports routines.
*/

Found in path(s):
* /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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*
*
* 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):
* /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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```
/*
* $Id: phy_mac_ctrl.c,v 1.5 2012/06/05 20:51:36 raphy Exp $
*
* $Copyright: (c) 2011 Broadcom Corporation
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*/
```

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-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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*
* 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):
* /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
* /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
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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/mkdoc
* /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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/*
*
* $Id: phymod.xml,v 1.1.2.5 2013/09/12 10:43:06 nirf Exp $
*
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*
*

* DO NOT EDIT THIS FILE!
*
*/

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* /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
* /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: dpc.h
* Purpose: Deferred Procedure Call module
*/

Found in path(s):
* /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/dpc.h
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* /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.c
* /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
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* /seahawks-stand-alone-apis-v-1-2-tar-
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Found in path(s):
* /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_mgmt.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):

```
* /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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*
* 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):
* /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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$Id$
*/
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Found in path(s):
* /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
* /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
* /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):
* /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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* /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.c
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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) */

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*
* Generic FIFO allocation and maintenance
*/

Found in path(s):
* /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/fifo.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
*
* DO NOT EDIT THIS FILE!
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*/

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_config.h
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```
/*
* $Id: mem.h,v 1.110 Broadcom SDK $
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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):
* /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):
* /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/vm.h
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/*
* $Id: phy542xx_int.h,v 1.6 2013/04/13 00:34:41 majotk Exp $
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*/

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy542xx_int.h
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* $Id: phymod_types.h,v 1.1.2.2 2013/06/11 15:46:49 mlarsen Exp $
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*
* Basic type definitions.
*/

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_types.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 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 is 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 //! or ///
# 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 penality.
# 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 rougly 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. 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 abled 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 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):
* /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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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/DriverFramework/Basic_Defs_API/incl/basic_defs.h
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*
* Bit Array Operations
*/

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* /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/bitop.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):
* /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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*
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* /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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***/

Found in path(s):
* /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
* /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_umdevxs.c
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* /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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Id
*/

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* /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
* /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
* /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
* /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
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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):
* /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: allenum.h
* Purpose: Enumerated types for fields, memories, registers
*
*/

Found in path(s):
* /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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*
* ISM management routines
*/
```

Found in path(s):

* /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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```
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*
```

* File: field.h
* Purpose: Register/memory field descriptions
*/

Found in path(s):
* /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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* Id
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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/all_doc.h
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/seahawks_reference_app/WinTypes.h
* /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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* Driver utility routines
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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):
* /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
* /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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*
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* /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
* /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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/*

```
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*
* ISM-HASH management routines
*/
```

Found in path(s):
* /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_hash.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):
* /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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***/

Found in path(s):
* /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
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip201.h
*
/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
* /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
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip62.h
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip217.h
* /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
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip160.h
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_hwpal.h

* /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
*
/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
* /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
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_list.h
* /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
* /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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/*
* $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.
*
* Its contents are not used directly by applications; it is used only
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*/

Found in path(s):
* /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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*
* File: enumgen.h
* Purpose: Defines a set of Macros for managing enums and associated
*   string arrays.
*/

Found in path(s):
* /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: memory.h
* Purpose: Base definitions for memory types
* Requires:
*/

Found in path(s):
* /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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* $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):
* /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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* /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.h
* /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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*
* 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):
* /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.h
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*
* SOC_FEATURE definitions
*
* File:        feature.h
* Purpose:     Define features by chip
*/
```

Found in path(s):
* /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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Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_sa_builder_macsec.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):
* /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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*
* File: sbusdma.h
* Purpose: Maps out structures used for SBUSDMA operations and
*   exports routines.
*/

Found in path(s):
* /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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*****************************************************************************/
/** 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):
* /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_types.h
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*
* File: thread.h
* Purpose: SAL thread definitions
*/

Found in path(s):
* /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/thread.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):
* /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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*****************************************************************************/
```

Found in path(s):
* /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_interrupts.h
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*
* Compiler Specific defines and options
*/

Found in path(s):
* /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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*
* File: memacc.h
* Purpose: Memory accessor declarations
*
*/

Found in path(s):
* /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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* $Id: phyfege.h,v 1.8 2010/05/26 00:35:06 mpall Exp $
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*

* File: phylocal.h
* Purpose:
*/

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/phyfege.h
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*
* File: ccmdma.h
* Purpose: Maps out structures used for CCMDMA operations and
* exports routines.
*/

Found in path(s):
* /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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*/

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* /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.h
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* /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
* /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
*
/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
* /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
* /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
* /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
* /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
* /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
* /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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* Id
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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):
* /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: uc_msg.h
*/

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* /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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*
* File: macipadr.h
* Purpose: Typedefs for MAC and IP addresses
*/

Found in path(s):
* /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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```
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*
* Port Bitmap Macros
*/
```

Found in path(s):
* /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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```
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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):
* /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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*
* File: libc.h
* Purpose: Some C library functions to remove dependencies
* of the driver on external libraries.
*
* The compile-time flag -DRTOS_STRINGS should be used if your RTOS
* supports the standard <string.h> routines. The RTOS library or
* built-in versions of these routines are likely to be much more
* efficient than the stand-in versions below.
*/

Found in path(s):
* /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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*
* 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.
*/

Found in path(s):
* /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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*
*/

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/core/phymod_diagnostics_enums.c
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/*
* $Id: avl.h,v 1.5 Broadcom SDK $

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*
* File: avl.h
* Purpose: Defines a generic AVL tree data structure.
*/

Found in path(s):
* /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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```
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*
* File: ll.h
* Purpose: Link Layer interface (MAC and PHY)
*/

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<tr class="even"><td class="entry">confidentiality_offset</td><td class="entry">bcm_plp_base_t_secy_sa_e_t</td><td class="entry"></td></tr>

Found in path(s):
* /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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*
* 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.
*/

Found in path(s):
* /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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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod_custom_config.h
* /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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*
* File: maxdef.h
*/

Found in path(s):
* /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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*****************************************************************************/
```

Found in path(s):
* /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
* /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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*
* File:        cmic.h
* Purpose:     Maps out structures used for CMIC operations and
*              exports routines and constants.
*/
```

Found in path(s):
* /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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```
#!/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):
* /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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```
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* /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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*
* Broadcom System Log (bSL)
*
* Defines for INTERNAL usage only.
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*
* File: types.h
* Purpose:
*/

Found in path(s):
* /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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```

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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/core/phymod_dispatch.c
* /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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*
* File: soc/ethdma.h
* Purpose:
*/

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* /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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* File: allfields.h
* Purpose: Field declarations for memory and registers
*
*/

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* /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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* /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
* /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_sleep.h
*
 /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_sleep.c
* /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
* /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.h
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*
* File: phyreg.h
*
* Data structures and function prototypes for PHY register access.
*/

Found in path(s):
* /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: types.h
* Purpose: SAL type definitions
*/

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```

*
* File: register.h
* Purpose: Base definitions for register types
* Requires:
*/

Found in path(s):
* /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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* File: mos_intr_common.h
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*
* File: mos_msg_common.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 idenitifier
* 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):
* /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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```
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*
```

* File: boot.h
* Purpose: Boot definitions
*/

Found in path(s):
* /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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<tr class="memitem:aa2c876827f8a8dfa4c09a43182963529"><td class="memItemLeft" align="right" valign="top">unsigned char </td><td class="memItemRight" valign="bottom">confidentiality_offset</td></tr>
<td class="memname">unsigned char bcm_plp_base_t_secy_sa_ca_t::confidentiality_offset</td>
true - enable confidentiality protection (AES-GCM/CTR operation)
false - disable confidentiality protection (AES-GMAC operation)

Found in path(s):
* /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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*
* 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):
* /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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**/
/** Specifies the driver license type for the driver registration
  inside the Linux kernel, GPL or Proprietary. */

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_adapter.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):
* /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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*
*
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*
*/

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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/chip/phy542xx_diagnostics.h
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/*
* $Id: phy_unimac.c,v 1.3 2011/05/12 01:35:43 raphy Exp $
* $Copyright: (c) 2008 Broadcom Corp.
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*/

Found in path(s):
* /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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/*
* $Id: phy_unimac.h,v 1.1 2011/05/07 00:17:37 raphy Exp $
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* /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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*
* This file defines common PHY register definition.
*
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* by header files of parent APIs which need to define PHY register definition.
*/

Found in path(s):
* /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/phyreg.h
No license file was found, but licenses were detected in source scan.

<tr><td class="entry"><a class="el"
href="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44">confidentiality_of
fset</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</td><td
class="entry"></td></tr>

Found in path(s):
* /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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**/

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-
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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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_diagnostics_dispatch.h
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confidentiality_offset

Found in path(s):
* /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
* /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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<tr class="memitem:a6f78468eb0dbc6aea2888df9544b9bc7"><td class="memItemLeft" align="right" valign="top">unsigned char </td><td class="memItemRight" valign="bottom">confidentiality_offset</td></tr>
<td class="memname">unsigned char bcm_plp_base_t_secy_sa_e_t::confidentiality_offset</td>
true - enable confidentiality protection
false - disable confidentiality protection

Found in path(s):
* /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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*
* 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):
* /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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* /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
* /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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*
* 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):
* /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 error codes to be shared between API layers.
*
* Its contents are not used directly by applications; it is used only
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* /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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* Id
*/

Found in path(s):
* /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
* /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_doc.h
* /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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*
* File: phyconfig.h
*
* Purpose: Set default configuration of the PHYs.
*/

Found in path(s):
* /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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* /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/cfp.h
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Id
*/

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* /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
* /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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*
```

* Broadcom System Log (bSL)
*
* BSL data types and macros
*/

Found in path(s):
* /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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/*
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* Id
*/

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* /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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* /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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<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):
* /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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*
* This file defines common PHY register definition.
*
```

* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define PHY register definition.
*/

Found in path(s):
* /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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**/

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* /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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Found in path(s):

* /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/dport.h
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<tr class="even"><td class="entry">confidentiality_offset</td><td class="entry">bcm_plp_base_t_secy_sa_ca_t</td><td class="entry"></td></tr>

Found in path(s):
* /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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* /seahawks-stand-alone-apis-v-1-2-tar-
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Found in path(s):
* /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/switch.h
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```

Found in path(s):
* /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_alloc.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):
* /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

1.184 miura 1.9

1.184.1 Available under license :

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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/seahawks_reference_app/seahawks_sample.c
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*--
* File : phy542xx_cfg_seq.h
* Description: c functions implementing Tier1
--/
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Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_systemtestconfig.h
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP217/src/c_eip217.h
*
 /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_driver_ext.h
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* /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
* /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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* File: phynull.h
* Purpose:
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Found in path(s):
* /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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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/all_doc.h
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*
* File: memregs.h
* Purpose: Memory entry declarations, memory and register macros
*
*/

Found in path(s):
* /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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$Id$
*/
/** 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):
* /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
* /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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* to ESSEmbeddedHW-Support@insidesecure.com.
*****************************************************************************/
/** Specifies the driver license type for the driver registration inside the
```

Linux kernel, GPL or Proprietary */

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_driver.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):
* /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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*
* File:	rx.h
* Purpose:	Packet Receive Reason Types shared between BCM and SOC layers
*/

Found in path(s):
* /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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*
*
*/
/*
*
* $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):
* /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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```
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*
* General utility routines
*/
```

Found in path(s):
* /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
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<tr class="memitem:a1c8f9fa7a255053b1d561938628d5f44"><td class="memItemLeft" align="right" valign="top">unsigned char </td><td class="memItemRight" valign="bottom">confidentiality_offset</td></tr>
<td class="memname">unsigned char bcm_plp_base_t_secy_sa_i_t::confidentiality_offset</td>

Found in path(s):
* /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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* File: phyecd.c
* Purpose: PHY ECD routines

*/

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* this header file defines types used in driver services.
*/

Found in path(s):
* /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/drvtypes.h
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*
* This header file defines packet formats for Ethernet and Broadcom stacking.
*/

Found in path(s):
* /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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<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):
* /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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*
* File: spl.h
* Purpose: Interrupt Blocking
*/

Found in path(s):
* /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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*
*/

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* /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
* /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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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod.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):
* /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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* Chip symbol table definitions.
*/

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* /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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Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy_mac_ctrl.h
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* File: drv.h
* Purpose: Link Layer interface (PHY)
*/

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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):
* /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
No license file was found, but licenses were detected in source scan.

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* Id
*/

Found in path(s):
* /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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/*
*

```
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*
*
*/
/*
```

*
* $Id: phymod.c,v 1.2.2.13 2013/08/12 11:43:46 dayad Exp $
*
* $Copyright:
* All Rights Reserved.$
*
*
*/

Found in path(s):
* /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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/*
* $Id: phy542xx_cfg_seq.c $
*
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*
*/

Found in path(s):
* /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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/*
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*
* File: alloc.h
* Purpose: Memory allocation
*/

Found in path(s):
* /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
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**/

Found in path(s):
* /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
* /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

*
 /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
* /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
* /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
* /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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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   = 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 is 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 //! or ///
# 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 penality.
# 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 rougly 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. 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 abled 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.

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.

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):
* /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
$Copyright: (c) 2017 Broadcom Limited All Rights Reserved.$
#

- 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 - bcmpmFirmwareLoadMethodNone Do
not download firmware
1 - bcmpmFirmwareLoadMethodInternal Internal Firmware Download: MDIO download
2 - bcmpmFirmwareLoadMethodExternal Reserved for future use
3 - bcmpmFirmwareLoadMethodProgEEPROM Reserved for future use

firmware_load_type.force_load_method Force firmware load method
0 - bcmpmFirmwareLoadSkip Skip firmware download if firmware is already present
1 - bcmpmFirmwareLoadForce Always download the firmware specified by firmware load method

2 - bcmpmFirmwareLoadAuto 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=bcmpmFirmwareLoadMethodInternal;
firmware_load_type.force_load_method=bcmpmFirmwareLoadForce;

Identify list of PHY's that needs to be broadcasted on a MDIO
Bus which is refered 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, bcmpmFirmwareBroadcastCoreReset); ## 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 acheived 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):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/README
No license file was found, but licenses were detected in source scan.

/*

* $Id: dma.h,v 1.54 Broadcom SDK $
* $Copyright: Copyright 2016 Broadcom Limited.
* This program is the proprietary software of Broadcom Limited
* and/or its licensors, and may only be used, duplicated, modified
* or distributed pursuant to the terms and conditions of a separate,
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*
* File: socdma.h
* Purpose: Maps out structures used for DMA operations and
* exports routines.

*/

Found in path(s):
* /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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*
* AXP management routines
*/

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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):
* /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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*
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*/

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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy_mac_ctrl.c
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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):
* /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
* /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
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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/mkdoc
* /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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* $Id: phymod.xml,v 1.1.2.5 2013/09/12 10:43:06 nirf Exp $
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* /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
* /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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* /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:  dpc.h
* Purpose:  Deferred Procedure Call module
*/
```

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* /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

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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):
* /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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```
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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):
* /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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*
* 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):
* /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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$Id$
*/
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Found in path(s):
* /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.c
* /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
* /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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*****************************************************************************/
```

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* /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_umdevxs.c
* /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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* /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.c
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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):
* /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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* /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/cmdebug.h

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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/List/src/c_list.h
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* Generic FIFO allocation and maintenance
*/

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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):
* /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):
* /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/vm.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: phy542xx_int.h,v 1.6 2013/04/13 00:34:41 majotk Exp $
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*/

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy542xx_int.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: phymod_types.h,v 1.1.2.2 2013/06/11 15:46:49 mlarsen Exp $
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*
* Basic type definitions.
*/

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_types.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 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 is 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 //! or ///
# 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 penality.
# 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 rougly 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. 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 abled 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 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):
* /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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*****************************************************************************/
```

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/DriverFramework/Basic_Defs_API/incl/basic_defs.h
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```
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```

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*
* Bit Array Operations
*/

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* /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/bitop.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):
* /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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```
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Found in path(s):
* /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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* /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
* /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
*
 /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
* /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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* /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_driver160_init_ext.h
*
 /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_interrupts.c
* /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
* /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_interrupts_ext.h
* /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.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):
* /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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```
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*
* File: allenum.h
* Purpose: Enumerated types for fields, memories, registers
*
*/

Found in path(s):
* /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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*
* ISM management routines
*/

Found in path(s):
* /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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*
* File: field.h
* Purpose: Register/memory field descriptions
*/

Found in path(s):
* /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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*
*
* DO NOT EDIT THIS FILE!
*
*/

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* /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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*
* Driver utility routines
*/

Found in path(s):
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*
* ISM-HASH management routines
*/

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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):
* /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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* $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.
*
* 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):
* /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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*
* File: enumgen.h
* Purpose: Defines a set of Macros for managing enums and associated
* string arrays.
*/

Found in path(s):
* /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: memory.h
* Purpose: Base definitions for memory types
* Requires:
*/

Found in path(s):
* /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: phyctrl.h
*
* Data structures and function prototypes for PHY register access.
*/

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```
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* /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.h
* /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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* /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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* /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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*
* 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):
* /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.h
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*
* SOC_FEATURE definitions
*
* File: feature.h
* Purpose: Define features by chip
*/

Found in path(s):
* /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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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_sa_builder_macsec.h
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* /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
* /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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$Id$
*/
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):
* /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
* /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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*
* 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):
* /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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* /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
* /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
* /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: sbusdma.h
* Purpose: Maps out structures used for SBUSDMA operations and
* exports routines.
*/

Found in path(s):
* /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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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/make/depend.mk
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/make/config.mk
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/make/maketools.mk
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/make/rules.mk
* /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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*
*
*/

Found in path(s):
* /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
* /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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***/
/** 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):
* /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_types.h
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*
* File:  thread.h
* Purpose:  SAL thread definitions
*/
```

Found in path(s):
* /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/thread.h
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*****************************************************************************/
```

Found in path(s):
* /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: 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):
* /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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* /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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* Compiler Specific defines and options
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*
* File: memacc.h
* Purpose: Memory accessor declarations
*
*/

Found in path(s):

* /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: phylocal.h
* Purpose:
*/

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*
* File: ccmdma.h
* Purpose: Maps out structures used for CCMDMA operations and
* exports routines.
*/

Found in path(s):
* /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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*/

Found in path(s):
* /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.h
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* Id
*/

Found in path(s):
* /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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*
* 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):
* /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: uc_msg.h
*/

Found in path(s):
* /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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*****************************************************************************/
```

Found in path(s):
* /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_sleep.h
* /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
*
/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
* /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_sleep.c
* /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.h
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```
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Found in path(s):
* /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
* /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
*
 /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
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip62.h
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip217.h
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_list.h
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip201.h
* /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
* /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
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_hwpal.h
*
 /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip160.h
* /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
* /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
* /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
* /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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```
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*
* File:       macipadr.h
* Purpose:    Typedefs for MAC and IP addresses
*/
```

Found in path(s):
* /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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*
* Port Bitmap Macros
*/

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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):
* /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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*
* 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.
*/

Found in path(s):
* /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:  libc.h
* Purpose:  Some C library functions to remove dependencies
*  of the driver on external libraries.
*
* The compile-time flag -DRTOS_STRINGS should be used if your RTOS
* supports the standard <string.h> routines.  The RTOS library or
* built-in versions of these routines are likely to be much more
* efficient than the stand-in versions below.
*/

Found in path(s):
* /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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*
*
* DO NOT EDIT THIS FILE!
*
*/

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-

gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/core/phymod_diagnostics_enums.c
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```
/*
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```

*
* File: avl.h
* Purpose: Defines a generic AVL tree data structure.
*/

Found in path(s):
* /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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*
* File: ll.h
* Purpose: Link Layer interface (MAC and PHY)
*/

Found in path(s):
* /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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<tr class="even"><td class="entry">confidentiality_offset</td><td class="entry">bcm_plp_base_t_secy_sa_e_t</td><td class="entry"></td></tr>

Found in path(s):
* /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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*
* 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.
*/

Found in path(s):
* /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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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod_custom_config.h
* /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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```
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*
* File:        maxdef.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):
* /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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```
#!/usr/bin/env perl
#
# $Id$
# $Copyright: (c) 2013 Broadcom Corporation All Rights Reserved.$
#
# 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):
* /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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```
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*
```

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* /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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*/

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* File: types.h
* Purpose:
*/

Found in path(s):
* /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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* /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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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/core/phymod_debug.c
* /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
* /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
*

/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: soc/ethdma.h
* Purpose:
*/

Found in path(s):
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*
* File: allfields.h
* Purpose: Field declarations for memory and registers
*
*/

Found in path(s):
* /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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*
* File: phyreg.h
*
* Data structures and function prototypes for PHY register access.
*/

Found in path(s):
* /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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/*
* $Id: phy542xx_regdefs.h,v 1.14 2013/06/19 02:32:30 mpall Exp $
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*/

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* /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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/*
* $Id: types.h,v 1.25 Broadcom SDK $
```

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*
* File: types.h
* Purpose: SAL type definitions
*/

Found in path(s):
* /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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```
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*
* File: register.h
* Purpose: Base definitions for register types
* Requires:
*/

Found in path(s):
* /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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*
* File: mos_intr_common.h
*/

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*
* This file contains multicast definitions.
*/

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* /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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*
* File: mos_msg_common.h
*/

Found in path(s):
* /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 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 idenitifier
* 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):
* /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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*
* File: boot.h
* Purpose: Boot definitions
*/

Found in path(s):
* /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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<tr class="memitem:aa2c876827f8a8dfa4c09a43182963529"><td class="memItemLeft" align="right" valign="top">unsigned char </td><td class="memItemRight" valign="bottom">confidentiality_offset</td></tr>
<td class="memname">unsigned char bcm_plp_base_t_secy_sa_ca_t::confidentiality_offset</td>
true - enable confidentiality protection (AES-GCM/CTR operation)
false - disable confidentiality protection (AES-GMAC operation)

Found in path(s):
* /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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*
* 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):
* /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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```
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*
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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.
**/
/** Specifies the driver license type for the driver registration
   inside the Linux kernel, GPL or Proprietary. */

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_adapter.h
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*
* File: phyxehg.h
* Purpose: Defines common PHY driver routines for Broadcom 10G PHY.
*/

Found in path(s):
* /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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*
*
* DO NOT EDIT THIS FILE!
*
*/

Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/chip/phy542xx_diagnostics.h
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/*
* $Id: phy_unimac.c,v 1.3 2011/05/12 01:35:43 raphy Exp $
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*/

Found in path(s):
* /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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/*
* $Id: phy_unimac.h,v 1.1 2011/05/07 00:17:37 raphy Exp $
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* /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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```
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```

*
* This file defines common PHY register definition.
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define PHY register definition.
*/

Found in path(s):
* /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/phyreg.h
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<tr><td class="entry">confidentiality_offset</td><td class="entry">bcm_plp_base_t_secy_sa_i_t</td><td class="entry"></td></tr>

Found in path(s):
* /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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* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/DriverFramework/CLib_Abstraction_API/incl/clib.h
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Found in path(s):
* /seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_diagnostics_dispatch.h
No license file was found, but licenses were detected in source scan.

confidentiality_offset

Found in path(s):
* /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
* /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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<tr class="memitem:a6f78468eb0dbc6aea2888df9544b9bc7"><td class="memItemLeft" align="right" valign="top">unsigned char </td><td class="memItemRight" valign="bottom">confidentiality_offset</td></tr>
<td class="memname">unsigned char bcm_plp_base_t_secy_sa_e_t::confidentiality_offset</td>
true - enable confidentiality protection
false - disable confidentiality protection

Found in path(s):
* /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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*
* 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):
* /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: 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):
* /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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*
*/

Found in path(s):
* /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_ctrl.h
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*****************************************************************************/
```

Found in path(s):
* /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
* /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
*
/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
* /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
* /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
* /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
* /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
* /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
* /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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```
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*
* This file defines common error codes to be shared between API layers.
*
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* by header files of parent APIs which need to define error codes.
*/

Found in path(s):

* /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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```
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*
* File: phyconfig.h
*
* Purpose: Set default configuration of the PHYs.
*/

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* /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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Id
*/

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* /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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*
* Broadcom System Log (bSL)
*
* BSL data types and macros
*/

Found in path(s):
* /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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/*
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* Id
*/

Found in path(s):
* /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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Found in path(s):
* /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
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):
* /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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*
* This file defines common PHY register definition.
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define PHY register definition.
*/

Found in path(s):
* /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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Found in path(s):
* /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/portmode.h
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**/

Found in path(s):
* /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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Found in path(s):
* /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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* /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/dport.h
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* /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.c
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<tr class="even"><td class="entry">confidentiality_offset</td><td class="entry">bcm_plp_base_t_secy_sa_ca_t</td><td class="entry"></td></tr>

Found in path(s):
* /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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* /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_alloc.h
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* /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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* File:        phyident.h
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* Note:        This header file is for PHY driver module. Should not include
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* /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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1.186 marvell_crypto_sdk 10.3.3.0-PR8

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1.187 marvell-dsdt 3.6.2

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1.189 traceroute 2.1.0

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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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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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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
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1.190 libcap-ng 0.7.9

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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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 If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

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1.193 kerberos 1.18.2

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cmd/krb5/slave/kpropd_rpc.c
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lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
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lib/libgss/g_accept_sec_context.c
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lib/libgss/g_dsp_name.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
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

and the initial implementation of incremental propagation,
including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.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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1.195 platform-python-pip 9.0.3

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1.196 glibc-all-langpacks 2.28

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@enumerate a
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1.202 dnf 4.4.2

1.202.1 Available under license :

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```
#
# erp_ring.zn - Oxide rules file
#
# June 2018, Gangadhara Valluri
#
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# 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):
* /dnf-tar/src/erp_ring.zn
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/*
*--
* erp_io_ha.c - ERP IO HA common code
*
* Sep 2010, Ramachandran Ramanujalu
*
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*--
*/

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* /dnf-tar/src/erp_io_ha.c
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/*
*--
* erp_ctrl.c - ERP Controller common code
*
* July 2010, Viet Nguyen
*
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*--
*/

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* /dnf-tar/src/erp_ctrl.c
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/*
*--
* erp_cfg_parser.c - ERP config parser code
*
* August 2011
*
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*/

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/*
*--
* erp_common.c - ERP common code
*
* July 2010, Viet Nguyen
*
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*--
*/

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/*
*--
* erp_pd_caps_stubs.c - ERP Controller stub file
*
* July 2010, Ramachandran Ramanujalu
*
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*--
*/

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* /dnf-tar/src/erp_pd_caps_stubs.c
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/*
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* erp_io.c - ERP IO common code
*
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*
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*--
*/

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```
/*
*------------------------------------------------------------------
* erp_ridb.c
* G.8032 Ring/Instance Database
*
* July 2010, Mark Bilstad
*
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* All rights reserved.
*------------------------------------------------------------------
*/
```

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* /dnf-tar/src/erp_ridb.c
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```
/*
*------------------------------------------------------------------
* erp_ctrl_sm.c
* G.8032 ERP Controller state machine
*
* July 2010, Viet Nguyen
*
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*------------------------------------------------------------------
*/
```

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```
/*
*------------------------------------------------------------------
* erp_pdb.h
* G.8032 Profile Database
*
* July 2010, Mark Bilstad
*
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*------------------------------------------------------------------
*/
```

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```
/*
*------------------------------------------------------------------------
* erp_io_pak.c - ERP IO packet handling source file
*
* August 2010, Ramachandran Ramanujalu
*
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*------------------------------------------------------------------------
*/
```

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```
/*
*------------------------------------------------------------------
* erp_debug.c - G.8032 Ethernet Ring Protection debug routines
*
* June 2010, Viet Nguyen
*
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*------------------------------------------------------------------
*/
```

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```
/*
*------------------------------------------------------------------------
* erp_ctrl_ha.c - ERP Controller HA common code
*
* Sep 2010, Ramachandran Ramanujalu
*
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*------------------------------------------------------------------------
*/
```

Found in path(s):
* /dnf-tar/src/erp_ctrl_ha.c
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```
/*
*------------------------------------------------------------------
* erp_io_sm.c
```

```
* G.8032 ERP IO state machine
*
* July 2010, Viet Nguyen
*
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*----------------------------------------------------------------------
*/
```

Found in path(s):
* /dnf-tar/src/erp_io_sm.c
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```
/*
*----------------------------------------------------------------------------
* erp_io.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_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):
* /dnf-tar/src/erp_io.sm
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
*
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*------------------------------------------------------------------------
*/

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):
* /dnf-tar/src/erp_ctrl.sm

1.203 libzstd 1.4.4

1.203.1 Available under license :

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1.204 sudo 1.8.29

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

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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, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin

Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
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
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
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Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
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1.205 sed 4.5

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the 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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obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

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.

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From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

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

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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
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> Sent: Monday, October 01, 2007 8:15 PM
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additional code, so whatever licensing y'all come up with is fine by me.

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> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
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> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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> much other than cleaning up the packaging and patches and a small
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> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
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> > additional code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
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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:
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> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

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

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

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

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

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

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct
 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status:
 RO
Content-Length: 585
Lines: 21

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

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

Happy now? :-)

 -a

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro

> > > maintainers to get together with Alec in a conversation and come to a
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> >
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the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

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

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

yes. go for it. thanks++

-a

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

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.

> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

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

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

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

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

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

From
 alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from

[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

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

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

Happy now? :-)

-a

1.207 libsemanage-common 2.9

1.207.1 Available under license :

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Version 2.1, February 1999

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

That's all there is to it!

1.208 python-setuptools 39.2.0

1.208.1 Available under license :

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1.209 libssh 0.9.4

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1.210 libcom-err 1.45.6

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

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

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the translation
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written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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    Theodore Ts'o
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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.]

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That's all there is to it!
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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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This package was put together by Yann Dirson <dirson@debian.org>,
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notice like this when it starts in an interactive mode:

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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

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3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated

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structure
layouts and accessors, or small macros, inline functions and templates
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a copy of the Library already present on the user's computer
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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.

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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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machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
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source code from the same place satisfies the requirement to
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Whether this is true is especially significant if the work can be
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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
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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.

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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the work with the complete corresponding
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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
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@c ispell-local-pdict: "ispell-dict"

@c End:

1.215 python3-hawkey 0.55.0

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* /lib-tar/lib/bind/resolv/res_debug.h
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<!-- $Id: lwres_gabn.docbook,v
 1.1 2004/11/03 01:39:06 abstine Exp $ -->

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<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 —
<type>lwres_gabnrequest_t</type> —
to the lighweight 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 —
<type>lwres_gabnresponse_t</type> —
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><lwres/lwres.h></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>
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<citerefentry>
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*   A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D
* "abcdbcdecdefdefgefghfghighijhijkijkljklmklmnlmnomnopnopq"
*   84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1
* A million repetitions of "a"
*   34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F
*/

Found in path(s):
* /lib-tar/lib/isc/sha1.c
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.\"
.\" $Id: lwres_context.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"

Found
 in path(s):
* /lib-tar/lib/lwres/man/lwres_context.3
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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
.

Found in path(s):

* /lib-tar/lib/win32/bindevt/bindevt.mc
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.\" $Id: logging.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]
.\" 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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* /lib-tar/lib/bind/isc/logging.mdoc
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* /lib-tar/lib/dns/resolver.c
* /lib-tar/lib/dns/rdata/generic/cert_37.c
*
 /lib-tar/lib/dns/message.c
* /lib-tar/lib/dns/include/dns/zone.h
* /lib-tar/lib/dns/ncache.c
* /lib-tar/lib/dns/adb.c
* /lib-tar/lib/dns/cache.c
* /lib-tar/lib/dns/include/dns/dispatch.h
* /lib-tar/lib/dns/include/dns/view.h
* /lib-tar/lib/isc/win32/net.c
* /lib-tar/lib/isc/unix/include/isc/net.h
* /lib-tar/lib/dns/dnssec.c
* /lib-tar/lib/dns/rdata/generic/nxt_30.c
* /lib-tar/lib/dns/master.c
* /lib-tar/lib/dns/rdata/generic/sig_24.c
* /lib-tar/lib/isc/unix/interfaceiter.c
* /lib-tar/lib/isc/sockaddr.c
* /lib-tar/lib/isc/log.c
* /lib-tar/lib/isc/include/isc/types.h
* /lib-tar/lib/dns/rdata/generic/tkey_249.c
* /lib-tar/lib/dns/rbt.c
* /lib-tar/lib/dns/rdata/generic/loc_29.c
* /lib-tar/lib/dns/include/dns/message.h
* /lib-tar/lib/isc/unix/app.c
* /lib-tar/lib/isc/unix/net.c
* /lib-tar/lib/tests/t_api.c
* /lib-tar/lib/dns/include/dns/db.h
* /lib-tar/lib/lwres/getipnode.c
* /lib-tar/lib/dns/dispatch.c
* /lib-tar/lib/dns/xfrin.c
* /lib-tar/lib/isc/win32/include/isc/net.h
* /lib-tar/lib/dns/zone.c
*

/lib-tar/lib/dns/rdata/generic/key_25.c
* /lib-tar/lib/dns/rdataslab.c
* /lib-tar/lib/isc/unix/ifiter_sysctl.c
* /lib-tar/lib/dns/rdata/any_255/tsig_250.c
* /lib-tar/lib/dns/masterdump.c
* /lib-tar/lib/isc/unix/ifiter_ioctl.c
* /lib-tar/lib/dns/include/dns/rdataset.h
* /lib-tar/lib/dns/view.c
* /lib-tar/lib/dns/include/dns/adb.h
* /lib-tar/lib/dns/rdataset.c
* /lib-tar/lib/dns/rdata/in_1/a6_38.c
* /lib-tar/lib/isc/random.c
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Found in path(s):
* /lib-tar/lib/dns/include/dns/ssu.h
* /lib-tar/lib/isc/pthreads/thread.c
*
 /lib-tar/lib/dns/ssu.c
* /lib-tar/lib/dns/peer.c
* /lib-tar/lib/dns/sdb.c
* /lib-tar/lib/isc/include/isc/string.h
* /lib-tar/lib/isc/win32/include/isc/stat.h
* /lib-tar/lib/lwres/context.c
* /lib-tar/lib/dns/include/dns/peer.h
* /lib-tar/lib/dns/lookup.c
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Found in path(s):
* /lib-tar/lib/dns/include/dns/soa.h
* /lib-tar/lib/dns/forward.c
*
 /lib-tar/lib/isc/unix/os.c
* /lib-tar/lib/lwres/include/lwres/lwbuffer.h
* /lib-tar/lib/isc/timer_p.h
* /lib-tar/lib/isc/include/isc/hmacmd5.h
* /lib-tar/lib/isc/include/isc/resource.h
* /lib-tar/lib/dns/rdatalist_p.h
* /lib-tar/lib/dns/include/dns/timer.h
* /lib-tar/lib/lwres/lwres_grbn.c
* /lib-tar/lib/lwres/gai_strerror.c
* /lib-tar/lib/isc/include/isc/file.h
* /lib-tar/lib/lwres/include/lwres/int.h
* /lib-tar/lib/isc/unix/fsaccess.c
* /lib-tar/lib/dns/include/dns/forward.h
* /lib-tar/lib/lwres/win32/include/lwres/int.h
* /lib-tar/lib/isc/win32/errno2result.h
* /lib-tar/lib/lwres/include/lwres/netdb.h.in
* /lib-tar/lib/lwres/lwres_noop.c
* /lib-tar/lib/isc/include/isc/os.h
* /lib-tar/lib/lwres/include/lwres/lang.h
* /lib-tar/lib/dns/include/dns/diff.h
* /lib-tar/lib/dns/include/dns/sdb.h
* /lib-tar/lib/isc/include/isc/quota.h
* /lib-tar/lib/isc/task_p.h
* /lib-tar/lib/isc/unix/include/isc/offset.h
* /lib-tar/lib/isc/ondestroy.c
* /lib-tar/lib/dns/include/dns/stats.h
* /lib-tar/lib/isc/win32/keyboard.c
*
 /lib-tar/lib/lwres/lwresutil.c
* /lib-tar/lib/isc/nothreads/thread.c
* /lib-tar/lib/isc/include/isc/ondestroy.h
* /lib-tar/lib/dns/sec/dst/include/dst/gssapi.h
* /lib-tar/lib/isc/nothreads/include/isc/once.h
* /lib-tar/lib/isc/unix/keyboard.c
* /lib-tar/lib/isc/nothreads/condition.c
* /lib-tar/lib/dns/soa.c
* /lib-tar/lib/isc/win32/stdio.c
* /lib-tar/lib/isc/include/isc/entropy.h
* /lib-tar/lib/win32/bindevt/bindevt.c
* /lib-tar/lib/isc/nothreads/include/isc/mutex.h
* /lib-tar/lib/isc/win32/include/isc/ntpaths.h

* /lib-tar/lib/isc/unix/include/isc/keyboard.h
* /lib-tar/lib/isc/unix/errno2result.h
* /lib-tar/lib/dns/include/dns/lookup.h
* /lib-tar/lib/lwres/include/lwres/ipv6.h
* /lib-tar/lib/isc/nothreads/mutex.c
* /lib-tar/lib/isc/win32/unistd.h
* /lib-tar/lib/isc/nothreads/include/isc/condition.h
* /lib-tar/lib/lwres/win32/include/lwres/platform.h
* /lib-tar/lib/lwres/win32/include/lwres/net.h
* /lib-tar/lib/lwres/lwbuffer.c
* /lib-tar/lib/dns/sec/dst/gssapictx.c
*
 /lib-tar/lib/isc/unix/socket_p.h
* /lib-tar/lib/isc/include/isc/stdio.h
* /lib-tar/lib/isc/unix/resource.c
* /lib-tar/lib/isc/win32/resource.c
* /lib-tar/lib/lwres/lwpacket.c
* /lib-tar/lib/dns/stats.c
* /lib-tar/lib/lwres/win32/include/lwres/netdb.h
* /lib-tar/lib/lwres/context_p.h
* /lib-tar/lib/isc/win32/include/isc/keyboard.h
* /lib-tar/lib/lwres/include/lwres/context.h
* /lib-tar/lib/lwres/include/lwres/lwres.h
* /lib-tar/lib/dns/include/dns/keytable.h
* /lib-tar/lib/dns/timer.c
* /lib-tar/lib/isc/fsaccess.c
* /lib-tar/lib/isc/hmacmd5.c
* /lib-tar/lib/lwres/assert_p.h
* /lib-tar/lib/isc/include/isc/formatcheck.h
* /lib-tar/lib/isc/win32/netdb.h
* /lib-tar/lib/isc/quota.c
* /lib-tar/lib/isc/unix/stdio.c
* /lib-tar/lib/lwres/version.c
* /lib-tar/lib/dns/keytable.c
* /lib-tar/lib/lwres/lwres_gabn.c
* /lib-tar/lib/isc/nothreads/include/isc/thread.h
* /lib-tar/lib/isc/include/isc/hex.h
* /lib-tar/lib/isc/include/isc/fsaccess.h
* /lib-tar/lib/lwres/include/lwres/result.h
* /lib-tar/lib/isc/win32/include/isc/offset.h
*
 /lib-tar/lib/dns/include/dns/bit.h
* /lib-tar/lib/lwres/gethost.c
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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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* /lib-tar/lib/bind/irs/getprotoent_r.c
*
 /lib-tar/lib/bind/irs/gethostent_r.c
* /lib-tar/lib/bind/irs/getnetgrent_r.c
* /lib-tar/lib/bind/irs/getservent_r.c
* /lib-tar/lib/bind/irs/getgrent_r.c
* /lib-tar/lib/bind/irs/getnetent_r.c
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* /lib-tar/lib/bind/bsd/utimes.c
* /lib-tar/lib/bind/isc/memcluster.c
*
 /lib-tar/lib/bind/include/isc/heap.h
* /lib-tar/lib/bind/isc/heap.c
* /lib-tar/lib/bind/include/isc/list.h
* /lib-tar/lib/bind/port/cygwin/include/ansi_realloc.h
* /lib-tar/lib/bind/include/isc/memcluster.h
* /lib-tar/lib/bind/isc/assertions.c
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* /lib-tar/lib/bind/irs/irp_pw.c
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* /lib-tar/lib/lwres/lwinetaton.c
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.\" $Id: tree.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
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Found in path(s):
* /lib-tar/lib/isc/assertions.c
* /lib-tar/lib/isc/include/isc/assertions.h
*
 /lib-tar/lib/isc/include/isc/heap.h
* /lib-tar/lib/isc/include/isc/mem.h
* /lib-tar/lib/isc/heap.c
* /lib-tar/lib/lwres/include/lwres/list.h
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Found in path(s):
* /lib-tar/lib/bind/irs/irp_nw.c
* /lib-tar/lib/bind/irs/irp_sv.c
*
 /lib-tar/lib/bind/irs/irp_ho.c
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/*
* This code implements 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.
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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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Found in path(s):
* /lib-tar/lib/isc/buffer.c
* /lib-tar/lib/isc/timer.c
* /lib-tar/lib/isc/include/isc/event.h
*
 /lib-tar/lib/isc/include/isc/netaddr.h
* /lib-tar/lib/isc/include/isc/buffer.h
* /lib-tar/lib/dns/rdata/in_1/a_1.c
* /lib-tar/lib/dns/rdata/generic/null_10.c
* /lib-tar/lib/dns/rdata/generic/soa_6.c
* /lib-tar/lib/dns/rdata/generic/proforma.c
* /lib-tar/lib/isc/include/isc/timer.h
* /lib-tar/lib/isc/include/isc/lex.h
* /lib-tar/lib/isc/include/isc/socket.h
* /lib-tar/lib/isc/include/isc/region.h
* /lib-tar/lib/dns/rdata/generic/hinfo_13.c
* /lib-tar/lib/dns/rdata/generic/opt_41.c
* /lib-tar/lib/dns/rdata/generic/txt_16.c
* /lib-tar/lib/isc/pthreads/include/isc/mutex.h
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.\" $Id: lwres_buffer.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"

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 in path(s):
* /lib-tar/lib/lwres/man/lwres_buffer.3
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* /lib-tar/lib/isc/rwlock.c
* /lib-tar/lib/isc/include/isc/rwlock.h
*
 /lib-tar/lib/isc/win32/time.c
* /lib-tar/lib/isc/result.c
* /lib-tar/lib/dns/rdata/generic/mx_15.c
* /lib-tar/lib/isc/include/isc/task.h
* /lib-tar/lib/isc/include/isc/result.h
* /lib-tar/lib/isc/unix/time.c
* /lib-tar/lib/isc/base64.c
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* /lib-tar/lib/dns/rdata/generic/dlv_65323.c
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* /lib-tar/lib/dns/rdata/generic/cert_37.h
* /lib-tar/lib/dns/dbtable.c
*
 /lib-tar/lib/dns/include/dns/ttl.h
* /lib-tar/lib/dns/ttl.c
* /lib-tar/lib/isc/unix/ipv6.c
* /lib-tar/lib/dns/include/dns/cache.h
* /lib-tar/lib/dns/gen-unix.h
* /lib-tar/lib/dns/include/dns/dbiterator.h
* /lib-tar/lib/isc/win32/include/isc/once.h
* /lib-tar/lib/isc/include/isc/mutexblock.h
* /lib-tar/lib/dns/sec/dst/include/dst/lib.h
* /lib-tar/lib/dns/rdata/generic/unspec_103.h
* /lib-tar/lib/isc/include/isc/lib.h
* /lib-tar/lib/dns/tcpmsg.c
* /lib-tar/lib/dns/rdata/in_1/naptr_35.h
* /lib-tar/lib/isc/include/isc/app.h
* /lib-tar/lib/dns/rdata/any_255/tsig_250.h
* /lib-tar/lib/dns/rdata/in_1/px_26.h
* /lib-tar/lib/isc/win32/ipv6.c
* /lib-tar/lib/dns/rdata/in_1/wks_11.h
* /lib-tar/lib/dns/include/dns/rcode.h
* /lib-tar/lib/isc/win32/include/isc/dir.h
* /lib-tar/lib/dns/rdata/rdatastructpre.h
* /lib-tar/lib/isc/serial.c
* /lib-tar/lib/dns/sec/dst/dst_result.c
* /lib-tar/lib/dns/rdata/in_1/aaaa_28.h
* /lib-tar/lib/dns/include/dns/secalg.h
* /lib-tar/lib/isc/include/isc/taskpool.h
*
 /lib-tar/lib/dns/include/dns/rootns.h
* /lib-tar/lib/isc/bufferlist.c
* /lib-tar/lib/dns/lib.c
* /lib-tar/lib/isc/unix/include/isc/syslog.h
* /lib-tar/lib/isc/unix/include/isc/netdb.h

* /lib-tar/lib/isc/taskpool.c
* /lib-tar/lib/dns/include/dns/keyflags.h
* /lib-tar/lib/dns/rdata/generic/loc_29.h
* /lib-tar/lib/isc/win32/interfaceiter.c
* /lib-tar/lib/isc/win32/include/isc/stdtime.h
* /lib-tar/lib/dns/include/dns/fixedname.h
* /lib-tar/lib/dns/rdata/generic/isdn_20.h
* /lib-tar/lib/isc/unix/dir.c
* /lib-tar/lib/dns/rdata/rdatastructsuf.h
* /lib-tar/lib/lwres/include/lwres/lwpacket.h
* /lib-tar/lib/dns/compress.c
* /lib-tar/lib/isc/win32/once.c
* /lib-tar/lib/dns/include/dns/time.h
* /lib-tar/lib/isc/include/isc/interfaceiter.h
* /lib-tar/lib/dns/include/dns/journal.h
* /lib-tar/lib/isc/include/isc/bufferlist.h
* /lib-tar/lib/dns/include/dns/dbtable.h
* /lib-tar/lib/isc/include/isc/serial.h
* /lib-tar/lib/isc/include/isc/magic.h
* /lib-tar/lib/dns/rbtdb64.h
* /lib-tar/lib/dns/rbtdb64.c
*
/lib-tar/lib/isc/win32/include/isc/int.h
* /lib-tar/lib/dns/rdata/generic/sig_24.h
* /lib-tar/lib/dns/rdata/in_1/nsap_22.h
* /lib-tar/lib/isc/include/isc/lang.h
* /lib-tar/lib/dns/rdata/in_1/srv_33.h
* /lib-tar/lib/isc/pthreads/include/isc/once.h
* /lib-tar/lib/dns/sec/dst/include/dst/result.h
* /lib-tar/lib/isc/win32/app.c
* /lib-tar/lib/dns/include/dns/cert.h
* /lib-tar/lib/dns/rdata/generic/rt_21.h
* /lib-tar/lib/dns/sec/dst/dst_lib.c
* /lib-tar/lib/dns/callbacks.c
* /lib-tar/lib/dns/rdata/generic/dname_39.h
* /lib-tar/lib/isc/include/isc/base64.h
* /lib-tar/lib/dns/include/dns/secproto.h
* /lib-tar/lib/dns/rdatasetiter.c
* /lib-tar/lib/dns/rdata/generic/dname_39.c
* /lib-tar/lib/isc/bitstring.c
* /lib-tar/lib/dns/include/dns/tkey.h
* /lib-tar/lib/isc/unix/include/isc/int.h
* /lib-tar/lib/dns/rdata/generic/rp_17.c
* /lib-tar/lib/isc/unix/stdtime.c
* /lib-tar/lib/dns/rdata/generic/rp_17.h
* /lib-tar/lib/isc/lib.c
* /lib-tar/lib/isc/win32/dir.c
* /lib-tar/lib/dns/rdata/generic/x25_19.h

*
 /lib-tar/lib/dns/rdata/in_1/kx_36.h
* /lib-tar/lib/isc/include/isc/lfsr.h
* /lib-tar/lib/isc/include/isc/random.h
* /lib-tar/lib/dns/include/dns/rdatalist.h
* /lib-tar/lib/dns/rdata/in_1/nsap-ptr_23.c
* /lib-tar/lib/dns/rdata/in_1/nsap-ptr_23.h
* /lib-tar/lib/dns/rdata/in_1/a6_38.h
* /lib-tar/lib/isc/mutexblock.c
* /lib-tar/lib/dns/rbtdb.h
* /lib-tar/lib/isc/include/isc/bitstring.h
* /lib-tar/lib/dns/include/dns/rdatasetiter.h
* /lib-tar/lib/dns/rdata/generic/gpos_27.h
* /lib-tar/lib/isc/win32/include/isc/syslog.h
* /lib-tar/lib/isc/include/isc/commandline.h
* /lib-tar/lib/isc/win32/stdtime.c
* /lib-tar/lib/dns/dbiterator.c
* /lib-tar/lib/dns/rdata/hs_4/a_1.h
* /lib-tar/lib/isc/include/isc/msgcat.h
* /lib-tar/lib/isc/unix/include/isc/dir.h
* /lib-tar/lib/isc/nls/msgcat.c
* /lib-tar/lib/isc/win32/include/isc/netdb.h
* /lib-tar/lib/dns/include/dns/lib.h
* /lib-tar/lib/dns/rdata/generic/afsdb_18.h
* /lib-tar/lib/dns/rdata/generic/key_25.h
* /lib-tar/lib/isc/unix/include/isc/stdtime.h
*
 /lib-tar/lib/dns/include/dns/tcpmsg.h
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* /lib-tar/lib/dns/rdata/generic/null_10.h
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 /lib-tar/lib/dns/rdata/generic/mf_4.c
* /lib-tar/lib/dns/rdata/generic/md_3.c
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* /lib-tar/lib/dns/rdata/generic/cname_5.h
* /lib-tar/lib/dns/rdata/generic/cname_5.c
* /lib-tar/lib/isc/include/isc/eventclass.h
* /lib-tar/lib/dns/win32/version.c
* /lib-tar/lib/isc/unix/include/isc/time.h
* /lib-tar/lib/isccfg/win32/version.c
* /lib-tar/lib/bind9/win32/version.c
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* /lib-tar/lib/isc/win32/thread.c
* /lib-tar/lib/isc/version.c
* /lib-tar/lib/isc/event.c
* /lib-tar/lib/isc/include/isc/boolean.h
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* /lib-tar/lib/isc/win32/include/isc/condition.h
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* /lib-tar/lib/dns/rdata/generic/minfo_14.c
* /lib-tar/lib/lwres/win32/version.c
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<!-- $Id: lwres_context.docbook,v
 1.1 2004/11/03 01:39:06 abstine Exp $ -->

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<refmiscinfo>BIND9</refmiscinfo>
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<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>
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<paramdef>void *arg</paramdef>
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<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>
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<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>
— typically a lightweight resolver query packet —
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>
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<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
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* /lib-tar/lib/bind/inet/inet_ntop.c
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* /lib-tar/lib/bind/isc/logging_p.h
* /lib-tar/lib/bind/inet/nsap_addr.c
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* /lib-tar/lib/lwres/man/lwres.docbook
* /lib-tar/lib/lwres/man/lwres_gai_strerror.docbook
* /lib-tar/lib/lwres/man/lwres_gai_strerror.html
* /lib-tar/lib/lwres/man/lwres_getrrsetbyname.html
* /lib-tar/lib/lwres/man/lwres_getaddrinfo.html
* /lib-tar/lib/lwres/man/lwres_inetntop.html
* /lib-tar/lib/lwres/man/lwres_inetntop.docbook
* /lib-tar/lib/lwres/man/lwres_gnba.html
* /lib-tar/lib/lwres/man/lwres_gnba.docbook
* /lib-tar/lib/lwres/man/lwres_gethostent.html
* /lib-tar/lib/lwres/man/lwres_hstrerror.html
* /lib-tar/lib/lwres/man/lwres_getnameinfo.html
* /lib-tar/lib/lwres/man/lwres_noop.docbook
* /lib-tar/lib/lwres/man/lwres_getnameinfo.docbook
* /lib-tar/lib/lwres/man/lwres_hstrerror.docbook
*
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* /lib-tar/lib/lwres/man/lwres_getipnode.html
* /lib-tar/lib/lwres/man/lwres_noop.html
* /lib-tar/lib/lwres/man/lwres_packet.html
* /lib-tar/lib/lwres/man/lwres.html
* /lib-tar/lib/lwres/man/lwres_context.html
* /lib-tar/lib/lwres/man/lwres_resutil.html
* /lib-tar/lib/lwres/man/lwres_buffer.docbook
* /lib-tar/lib/lwres/man/lwres_config.html
* /lib-tar/lib/lwres/man/lwres_packet.docbook
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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):
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* /lib-tar/lib/isc/win32/include/isc/platform.h
* /lib-tar/lib/dns/win32/DLLMain.c
*
 /lib-tar/lib/isccfg/win32/DLLMain.c
* /lib-tar/lib/isc/win32/ntpaths.c
* /lib-tar/lib/isc/win32/include/isc/ntgroups.h
* /lib-tar/lib/isc/include/isc/version.h
* /lib-tar/lib/bind9/include/bind9/check.h
* /lib-tar/lib/isc/unix/include/isc/strerror.h
* /lib-tar/lib/isccc/win32/DLLMain.c
* /lib-tar/lib/bind9/win32/DLLMain.c
* /lib-tar/lib/isc/win32/include/isc/bind_registry.h
* /lib-tar/lib/lwres/include/lwres/version.h
* /lib-tar/lib/bind9/version.c
* /lib-tar/lib/bind9/include/bind9/getaddresses.h
* /lib-tar/lib/isccc/win32/version.c
* /lib-tar/lib/bind9/include/bind9/version.h
* /lib-tar/lib/isccc/include/isccc/version.h
* /lib-tar/lib/isccfg/include/isccfg/version.h
* /lib-tar/lib/isccfg/include/isccfg/log.h
* /lib-tar/lib/isc/win32/ntgroups.c
* /lib-tar/lib/dns/include/dns/version.h
* /lib-tar/lib/isc/win32/include/isc/bindevt.h
* /lib-tar/lib/isc/win32/DLLMain.c
* /lib-tar/lib/isc/win32/include/isc/strerror.h
* /lib-tar/lib/bind/port/solaris/include/sys/bitypes.h
* /lib-tar/lib/dns/include/dns/zonekey.h
*
 /lib-tar/lib/isc/unix/strerror.c
* /lib-tar/lib/lwres/win32/DLLMain.c
* /lib-tar/lib/isccfg/log.c
* /lib-tar/lib/dns/sec/dst/key.c
* /lib-tar/lib/isc/unix/syslog.c
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* /lib-tar/lib/dns/sec/dst/dst_parse.h
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* /lib-tar/lib/bind/port/rhapsody/include/sys/bitypes.h
* /lib-tar/lib/bind/port/darwin/include/sys/bitypes.h
*
 /lib-tar/lib/bind/irs/irp_p.h
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<!-- $Id: lwres_resutil.docbook,v
 1.1 2004/11/03 01:39:06 abstine Exp $ -->

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<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>

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 <manvolnum>3</manvolnum>
 <refmiscinfo>BIND9</refmiscinfo>
</refmeta>

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<refname>lwres_addr_parse</refname>
<refname>lwres_getaddrsbyname</refname>
<refname>lwres_getnamebyaddr</refname>
<refpurpose>lightweight resolver utility functions</refpurpose>
</refnamediv>
<refsynopsisdiv>
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<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
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<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>char **c</paramdef>
<paramdef>lwres_uint16_t *len</paramdef>
</funcprototype>
<funcprototype>
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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>
</funcsynopsis>
</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->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->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->address</constant> and
<constant>addr->length</constant> indicates the size in bytes of

the address that was copied. <constant>b->current</constant> is
advanced to point at the next byte of available data in the buffer
following the encoded address.
</para>

<para>
<function>lwres_getaddrsbyname()</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_getaddrsbyname()</function> to perform foward 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>
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* /lib-tar/lib/bind/isc/ctl_clnt.c
* /lib-tar/lib/bind/isc/ctl_p.c
*
 /lib-tar/lib/bind/inet/inet_cidr_pton.c
* /lib-tar/lib/bind/isc/ctl_srvr.c
* /lib-tar/lib/bind/resolv/res_mkupdate.h
* /lib-tar/lib/bind/inet/inet_cidr_ntop.c
* /lib-tar/lib/bind/include/isc/ctl.h
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* /lib-tar/lib/bind/port/hpux9/include/sys/cdefs.h
* /lib-tar/lib/bind/port/cygwin/include/sys/cdefs.h
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* /lib-tar/lib/bind/port/lynxos/include/sys/cdefs.h
* /lib-tar/lib/bind/port/unixware212/include/sys/cdefs.h
* /lib-tar/lib/bind/port/hpux10/include/sys/cdefs.h
* /lib-tar/lib/bind/port/next/include/sys/cdefs.h
* /lib-tar/lib/bind/port/aix4/include/sys/cdefs.h
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.\"
.\" $Id: lwres_resutil.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"

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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>
</funcsynopsis>
</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><lwres/netdb.h></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_hstrerror</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>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_getnameinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_hstrerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>
</refsect1>
</refentry>

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* /lib-tar/lib/bind9/check.c
* /lib-tar/lib/isc/parseint.c
* /lib-tar/lib/isc/win32/syslog.c

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*
* BINOS specific changes to associate memcluster with an evctx
*
* March 2014,
 Aswin Kuppusami
*/
```

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* /lib-tar/lib/bind/isc/memcluster_p.h

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* /lib-tar/lib/bind/irs/irp.c

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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/pthreads
   then
    AC_MSG_RESULT(none)
    use_threads=false
   fi

   if $use_threads
   then
    AC_MSG_RESULT(mit-pthreads/unproven-pthreads)
    pkg="$LOCALBASE/pthreads"
    lib1="-L$pkg/lib -Wl,-R$pkg/lib"
    lib2="-lpthread
 -lm -lgcc -lpthread"
    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_IFNAMELINKID="#define USE_IFNAMELINKID 1"],
 [USE_IFNAMELINKID="#undef USE_IFNAMELINKID"])
AC_SUBST(USE_IFNAMELINKID)

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 signficant.
#

#
# 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 xyzzy; xyzzy.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 xyzzy; 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_SYSERROR_LIST="#undef
 USE_SYSERROR_LIST"],
 [USE_SYSERROR_LIST="#define USE_SYSERROR_LIST 1"])
AC_SUBST(USE_SYSERROR_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_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 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 sptr"
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):
* /lib-tar/lib/bind/configure.in
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* /lib-tar/lib/bind/dst/md5_locl.h
* /lib-tar/lib/bind/dst/md5.h
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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><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 —
<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>,
<function>lwres_endhostent()</function>,

<function>lwres_gethostent_r()</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> — 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.
</para>

<para>
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> — <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.
</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> — <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><lwres/netdb.h></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_hstrerror</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>
<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_hstrerror</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>

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

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* eventlib.em

```
*
* Eventlib error message compiler input file
*
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* All rights reserved
*/

/*
* 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" elapased_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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* /lib-tar/lib/isc/lex.c
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/lib-tar/lib/dns/result.c
* /lib-tar/lib/dns/gen.c
* /lib-tar/lib/dns/rdata.c
* /lib-tar/lib/dns/include/dns/rdata.h
* /lib-tar/lib/isc/unix/socket.c

* /lib-tar/lib/dns/time.c
* /lib-tar/lib/dns/name.c
* /lib-tar/lib/dns/rcode.c
* /lib-tar/lib/isc/task.c
* /lib-tar/lib/dns/include/dns/types.h
* /lib-tar/lib/dns/include/dns/result.h
* /lib-tar/lib/dns/include/dns/name.h
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* /lib-tar/lib/dns/byaddr.c
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* /lib-tar/lib/isc/unix/entropy.c
* /lib-tar/lib/dns/sec/dst/opensslrsa_link.c
* /lib-tar/lib/dns/include/dns/byaddr.h
* /lib-tar/lib/isc/win32/socket.c
* /lib-tar/lib/isc/entropy.c
* /lib-tar/lib/isc/hex.c
* /lib-tar/lib/isc/include/isc/msgs.h
* /lib-tar/lib/lwres/getrrset.c
* /lib-tar/lib/dns/validator.c
* /lib-tar/lib/isccfg/parser.c
* /lib-tar/lib/lwres/lwconfig.c
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* @(#)cdefs.h 8.7 (Berkeley) 1/21/94
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* /lib-tar/lib/isc/symtab.c
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* /lib-tar/lib/isc/inet_ntop.c
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 /lib-tar/lib/isc/include/isc/symtab.h
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* /lib-tar/lib/dns/rdata/generic/rrsig_46.h
*
 /lib-tar/lib/dns/rdata/generic/rrsig_46.c
* /lib-tar/lib/dns/rdata/generic/sshfp_44.h
* /lib-tar/lib/isc/unix/include/isc/stat.h
* /lib-tar/lib/isc/unix/ifiter_getifaddrs.c
* /lib-tar/lib/dns/rdata/generic/nsec_47.c
* /lib-tar/lib/dns/rdata/generic/sshfp_44.c
* /lib-tar/lib/dns/rdata/generic/dnskey_48.h
* /lib-tar/lib/isc/include/isc/stdlib.h
* /lib-tar/lib/isc/include/isc/hash.h
* /lib-tar/lib/dns/portlist.c
* /lib-tar/lib/dns/rdata/generic/dnskey_48.c
* /lib-tar/lib/dns/include/dns/portlist.h
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* /lib-tar/lib/isccc/include/isccc/types.h
* /lib-tar/lib/isccc/include/isccc/symtab.h
* /lib-tar/lib/isccc/base64.c
* /lib-tar/lib/isccc/symtab.c
* /lib-tar/lib/isccc/include/isccc/ccmsg.h
* /lib-tar/lib/isccc/include/isccc/events.h
* /lib-tar/lib/isccc/ccmsg.c
* /lib-tar/lib/isccc/include/isccc/lib.h
* /lib-tar/lib/isccc/sexpr.c
* /lib-tar/lib/isccc/alist.c
* /lib-tar/lib/isccc/include/isccc/symtype.h
* /lib-tar/lib/isccc/include/isccc/alist.h
* /lib-tar/lib/isccc/include/isccc/sexpr.h
* /lib-tar/lib/isccc/lib.c
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* /lib-tar/lib/bind/include/resolv.h
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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 —
<type>SOCK_STREAM</type>,
<type>SOCK_DGRAM</type>
or
<type>SOCK_RAW</type>
— 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
<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.

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
<citerefentry>

<refentrytitle>connect</refentrytitle><manvolnum>2
</manvolnum>
</citerefentry>
for a connection-oriented protocol or
<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

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 cn 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>,

<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.
</para>

</refsect1>
</refentry>

Found
 in path(s):
* /lib-tar/lib/lwres/man/lwres_getaddrinfo.docbook
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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 delared.
*/
@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):
* /lib-tar/lib/lwres/include/lwres/platform.h.in

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* /lib-tar/lib/dns/include/dns/events.h
* /lib-tar/lib/isc/include/isc/log.h
*
 /lib-tar/lib/dns/rdata/in_1/aaaa_28.c
* /lib-tar/lib/dns/rdata/generic/x25_19.c
* /lib-tar/lib/dns/include/dns/rdataslab.h
* /lib-tar/lib/isc/include/isc/ratelimiter.h
* /lib-tar/lib/dns/tsig.c
* /lib-tar/lib/isc/lfsr.c
* /lib-tar/lib/dns/rdata/in_1/nsap_22.c
* /lib-tar/lib/dns/rdata/generic/isdn_20.c
* /lib-tar/lib/dns/rdata/generic/nxt_30.h
* /lib-tar/lib/dns/include/dns/compress.h
* /lib-tar/lib/dns/include/dns/dnssec.h
* /lib-tar/lib/isc/include/isc/ipv6.h
* /lib-tar/lib/dns/journal.c
* /lib-tar/lib/dns/rdata/generic/gpos_27.c
* /lib-tar/lib/isc/netaddr.c
* /lib-tar/lib/dns/rdata/generic/unspec_103.c
* /lib-tar/lib/dns/rdata/hs_4/a_1.c
* /lib-tar/lib/dns/include/dns/master.h
* /lib-tar/lib/dns/include/dns/callbacks.h
* /lib-tar/lib/dns/include/dns/rbt.h
* /lib-tar/lib/isc/ratelimiter.c
* /lib-tar/lib/dns/include/dns/tsig.h
* /lib-tar/lib/dns/acl.c
* /lib-tar/lib/dns/rdata/in_1/wks_11.c
* /lib-tar/lib/dns/include/dns/zt.h
* /lib-tar/lib/dns/include/dns/masterdump.h
* /lib-tar/lib/dns/include/dns/acl.h
*
 /lib-tar/lib/dns/include/dns/ncache.h
* /lib-tar/lib/dns/rootns.c
* /lib-tar/lib/dns/zt.c
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Found in path(s):
* /lib-tar/lib/dns/request.c
* /lib-tar/lib/dns/sec/dst/gssapi_link.c
*
 /lib-tar/lib/lwres/unix/include/lwres/net.h
* /lib-tar/lib/isccfg/include/isccfg/cfg.h
* /lib-tar/lib/isc/pthreads/mutex.c
* /lib-tar/lib/isc/unix/errno2result.c
* /lib-tar/lib/dns/sec/dst/include/dst/dst.h
* /lib-tar/lib/isc/win32/errno2result.c
* /lib-tar/lib/isc/win32/entropy.c
* /lib-tar/lib/isc/win32/os.c
* /lib-tar/lib/isc/win32/file.c
* /lib-tar/lib/isc/win32/include/isc/ipv6.h
* /lib-tar/lib/isc/win32/fsaccess.c
* /lib-tar/lib/lwres/lwres_gnba.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 delared.
*/
@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):
* /lib-tar/lib/isc/include/isc/platform.h.in
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Found in path(s):
* /lib-tar/lib/bind/inet/inet_lnaof.c
* /lib-tar/lib/bind/inet/inet_network.c

*
/lib-tar/lib/bind/inet/inet_ntoa.c
* /lib-tar/lib/bind/inet/inet_netof.c
* /lib-tar/lib/bind/inet/inet_makeaddr.c
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Found in path(s):
* /lib-tar/lib/bind/include/isc/eventlib.h
* /lib-tar/lib/bind/isc/eventlib_p.h
*
/lib-tar/lib/bind/include/isc/misc.h
* /lib-tar/lib/bind/isc/ev_connects.c
* /lib-tar/lib/bind/isc/ev_files.c
* /lib-tar/lib/bind/isc/ev_timers.c
* /lib-tar/lib/bind/isc/eventlib.c
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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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* /lib-tar/lib/bind/isc/memcluster.mdoc
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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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* /lib-tar/lib/bind/make/includes.in
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* /lib-tar/lib/bind/resolv/res_init.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):
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.\" $Id: lwres_getnameinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"

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in path(s):
* /lib-tar/lib/lwres/man/lwres_getnameinfo.3
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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_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 a to 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>

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* /lib-tar/lib/bind/dst/hmac_link.c
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* /lib-tar/lib/bind/isc/hex.c
* /lib-tar/lib/bind/irs/gai_strerror.c
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* /lib-tar/lib/isccfg/include/isccfg/namedconf.h
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 /lib-tar/lib/dns/include/dns/order.h
* /lib-tar/lib/isc/region.c
* /lib-tar/lib/dns/rdata/generic/ds_43.c
* /lib-tar/lib/dns/sec/dst/dst_openssl.h
* /lib-tar/lib/dns/rdata/generic/ds_43.h
* /lib-tar/lib/dns/include/dns/ds.h
* /lib-tar/lib/isc/win32/win32os.c
* /lib-tar/lib/dns/include/dns/opcode.h
* /lib-tar/lib/dns/rdata/in_1/apl_42.h
* /lib-tar/lib/dns/order.c
* /lib-tar/lib/dns/rdata/in_1/apl_42.c
* /lib-tar/lib/isc/netscope.c
* /lib-tar/lib/isc/win32/include/isc/win32os.h
* /lib-tar/lib/lwres/win32/lwconfig.c
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* eventlib definitions specific to binos
*
* January 2007, Vikram Visweswaraiah
*
```

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* /lib-tar/lib/isc/win32/syslog.h
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* /lib-tar/lib/dns/rdata/in_1/kx_36.c
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* /lib-tar/lib/dns/rdata/in_1/srv_33.c
* /lib-tar/lib/dns/rdatalist.c
* /lib-tar/lib/dns/include/dns/log.h
* /lib-tar/lib/dns/include/dns/resolver.h
* /lib-tar/lib/dns/rdata/generic/tkey_249.h
* /lib-tar/lib/isc/print.c
* /lib-tar/lib/dns/nsec.c
* /lib-tar/lib/isc/include/isc/print.h

* /lib-tar/lib/dns/rdata/generic/rt_21.c
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* /lib-tar/lib/dns/rdata/in_1/px_26.c
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* /lib-tar/lib/lwres/print_p.h
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```
/*
* msg_eventlib.c - Error messages for evlib
*
* January 2007, Vikram Visweswaraiah
*
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*/
```

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*/
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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.
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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.
*
* 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>.
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.\" $Id: lwres_getaddrinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
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1.216 open-ldap 2.4.46

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1.220 libuser 0.62

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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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1.221 tcpdump 4.9.3

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1.224 glibc-common 2.28

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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.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program
which contains a notice placed by the copyright holder or other
authorized party saying it may be distributed under the terms of this
Lesser 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.

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You may copy and distribute
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fee.

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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:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

@item
You must
cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

@item
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.)
@end enumerate

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.

@item
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.

@item
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.

@item
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.

@item
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:

@enumerate a
@item
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
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

@item
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.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

 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.

@item
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:

@enumerate a
@item
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.

@item
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.
@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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redistribution under these terms (or, alternatively, under the terms of the
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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.

@smallexample
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USA.
@end
smallexample

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:

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

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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Preamble

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

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

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

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

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

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is

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author's reputation will not be affected by problems that might be
introduced by others.

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

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

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

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

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

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of

free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser 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
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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:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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
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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.

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

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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
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1.232 gawk 4.2.1

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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.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not distribute
the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

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.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system;
it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each
version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

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LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

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.>
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 Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
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Library General Public License for more details.

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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Version 3, 29 June 2007

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Preamble

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The licenses for most software and other practical works are designed

to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, 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 them 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 prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

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

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

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

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

ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

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

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

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

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

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

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

An interactive user interface displays "Appropriate Legal Notices"

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

1. Source Code.

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

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

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

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

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

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

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

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

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

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

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

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

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

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

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

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

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

beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

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

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

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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deemed a mode
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and valid for as
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1.236 ima-evm-utils 1.1

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1.239 fipscheck 1.4.1

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1.240 libseccomp 2.4.3

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1.241 libsolv 0.7.16

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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
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1.243 ipcalc 0.2.4

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##
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1.249 cronie-anacron 1.5.2

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1.251 libtirpc 1.1.4

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

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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.

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a

copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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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@enumerate 0
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@enumerate
a
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@item
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cost of physically performing this conveying of source, or (2) access
to copy the Corresponding Source from a network server at no charge.

@item
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offer
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6b.

@item
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the object code is a network server, the Corresponding Source may be
on a different server (operated by you or a third party) that supports
equivalent copying facilities, provided you maintain clear directions
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Regardless of what server hosts the Corresponding Source, you remain
obligated to ensure that it is available for as long as needed to
satisfy these requirements.

@item
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 code using peer-to-peer transmission, provided you
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@end enumerate

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Version 3.1, 31 March 2009

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========

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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.

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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
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functions (ten lines or less in length), then the use of the object
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(Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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@item
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1.254 npth 1.5

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1.257 libpwquality 1.4.4

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* 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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*/

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* pw_defs.h
*
* Password defines.
*
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*/

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* /pw-tar/pw/include/pw_defs.h
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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.
*/
```

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* /pw-tar/pw/include/pw.h
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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):
* /pw-tar/pw/include/pw_const.tph

1.258 glib 2.56.4

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1.260 sqlite 3.26.0

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1.262 libcomps 0.1.11

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1.263 basesystem 11

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%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
- Rebuilt for https://fedoraproject.org/wiki/Fedora_28_Mass_Rebuild

* Wed Jul 26 2017 Fedora Release Engineering <releng@fedoraproject.org>
- 11-4
- Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild

* Fri Feb 10 2017 Fedora Release Engineering <releng@fedoraproject.org> - 11-3
- Rebuilt for https://fedoraproject.org/wiki/Fedora_26_Mass_Rebuild

* Wed Feb 03 2016 Fedora Release Engineering <releng@fedoraproject.org> - 11-2
- Rebuilt for https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild

* Thu Jul 09 2015 Ondrej Vasik <ovasik@redhat.com> 11-1
- automatically determine OS name at build time (#1195396)

* Wed Jun 17 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-11
- Rebuilt for https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild

* Sat Jun 07 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-10
- Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Sat Aug 03 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-9
- Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Wed Feb 13 2013
Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-8
- Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Wed Jul 18 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-7
- Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Thu Jan 12 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-6
- Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Thu Jun 23 2011 Ondrej Vasik <ovasik@redhat.com> 10.0-5
- fix FTBFS typo (#715640), add disttag

* Mon Feb 07 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org>
- Rebuilt for 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

* 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

*
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>
- rebuilt

* 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):
* /basesystem-11-5.el8.src.rpm-cosi-expand-archive-kpkKcrr3/basesystem.spec

1.264 python 4.14.3

1.264.1 Available under license :

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1.268 elfutils 0.182

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the

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which the executable runs, unless that component itself accompanies
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Linking with OpenSSL

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1.271 python36 3.6.8

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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.

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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.272 libmetalink 0.1.3

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1.274 coreutils 8.30

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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1.282 kmod-libs 25

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1.286 log-rotate 3.14.0

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1.289 audit-lib 3.0

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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.

e) Verify that the user has already received a copy of these

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1.292 strace 5.7

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The End

1.296 json-c 0.13.1

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

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The End

1.306 gdbm-libs 1.18

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1.309 ncurses-libs 6.1

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $

1.310 device-mapper 1.02.175

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1.311 centos-gpg-keys 8

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1.316 diffutils 3.6

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1.325 iputils 20180629

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1.326 zlib 1.2.11

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

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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
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1.330 p11-kit 0.23.21

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1.331 network-scripts 10.00.12

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

Found
 in path(s):
* /lib-tar/lib/lwres/man/lwres_getipnode.3
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-->

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

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<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 —
<type>lwres_gabnrequest_t</type> —
to the lighweight 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 —
<type>lwres_gabnresponse_t</type> —
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><lwres/lwres.h></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>

Found
in path(s):
* /lib-tar/lib/lwres/man/lwres_gabn.docbook
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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
* "abcdbcdecdefdefgefghfghighijhijkijkljklmklmnlmnomnopnopq"
*   84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1
* A million repetitions of "a"
*   34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F
*/

Found in path(s):
* /lib-tar/lib/isc/sha1.c
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.\"
.\" $Id: lwres_context.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"

Found
 in path(s):
* /lib-tar/lib/lwres/man/lwres_context.3
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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
.

Found in path(s):
* /lib-tar/lib/win32/bindevt/bindevt.mc
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Found in path(s):
* /lib-tar/lib/isccc/include/isccc/version.h
* /lib-tar/lib/bind9/include/bind9/check.h
*
 /lib-tar/lib/lwres/include/lwres/version.h
* /lib-tar/lib/dns/win32/DLLMain.c
* /lib-tar/lib/bind9/win32/DLLMain.c
* /lib-tar/lib/isccfg/log.c
* /lib-tar/lib/bind9/version.c
* /lib-tar/lib/isc/win32/include/isc/bind_registry.h
* /lib-tar/lib/isccfg/include/isccfg/log.h
* /lib-tar/lib/dns/include/dns/version.h
* /lib-tar/lib/isccfg/win32/DLLMain.c
* /lib-tar/lib/isccc/win32/DLLMain.c
* /lib-tar/lib/dns/include/dns/zonekey.h
* /lib-tar/lib/isc/win32/include/isc/bindevt.h
* /lib-tar/lib/dns/sec/dst/key.c
* /lib-tar/lib/isc/include/isc/version.h
* /lib-tar/lib/bind9/include/bind9/getaddresses.h
* /lib-tar/lib/isc/unix/include/isc/strerror.h
* /lib-tar/lib/isc/win32/include/isc/strerror.h
* /lib-tar/lib/isc/win32/DLLMain.c
* /lib-tar/lib/bind/port/solaris/include/sys/bitypes.h
* /lib-tar/lib/isccfg/include/isccfg/version.h
* /lib-tar/lib/isc/unix/syslog.c
* /lib-tar/lib/bind9/include/bind9/version.h
* /lib-tar/lib/isc/win32/include/isc/ntgroups.h
* /lib-tar/lib/isccc/win32/version.c
*
 /lib-tar/lib/isc/win32/ntpaths.c
* /lib-tar/lib/isc/unix/strerror.c
* /lib-tar/lib/isc/win32/ntgroups.c

* /lib-tar/lib/isc/win32/include/isc/platform.h
* /lib-tar/lib/lwres/win32/DLLMain.c
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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

Found in path(s):
* /lib-tar/lib/bind/isc/logging.mdoc
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Found in path(s):
* /lib-tar/lib/bind/include/isc/eventlib.h
* /lib-tar/lib/bind/isc/ev_connects.c
*
 /lib-tar/lib/bind/isc/eventlib_p.h
* /lib-tar/lib/bind/isc/ev_timers.c
* /lib-tar/lib/bind/isc/ev_files.c
* /lib-tar/lib/bind/include/isc/misc.h
* /lib-tar/lib/bind/isc/eventlib.c
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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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Found in path(s):
* /lib-tar/lib/bind/dst/hmac_link.c
* /lib-tar/lib/bind/dst/dst_internal.h
*
 /lib-tar/lib/bind/dst/support.c
* /lib-tar/lib/bind/dst/dst_api.c
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Found in path(s):
* /lib-tar/lib/isc/include/isc/stdio.h

* /lib-tar/lib/isc/unix/resource.c
*
 /lib-tar/lib/isc/unix/include/isc/offset.h
* /lib-tar/lib/lwres/include/lwres/int.h
* /lib-tar/lib/dns/include/dns/forward.h
* /lib-tar/lib/lwres/gai_strerror.c
* /lib-tar/lib/lwres/win32/include/lwres/net.h
* /lib-tar/lib/dns/keytable.c
* /lib-tar/lib/isc/unix/socket_p.h
* /lib-tar/lib/isc/unix/errno2result.h
* /lib-tar/lib/dns/forward.c
* /lib-tar/lib/isc/include/isc/entropy.h
* /lib-tar/lib/isc/include/isc/quota.h
* /lib-tar/lib/lwres/lwres_grbn.c
* /lib-tar/lib/isc/unix/include/isc/keyboard.h
* /lib-tar/lib/isc/include/isc/resource.h
* /lib-tar/lib/win32/bindevt/bindevt.c
* /lib-tar/lib/lwres/include/lwres/result.h
* /lib-tar/lib/lwres/include/lwres/ipv6.h
* /lib-tar/lib/dns/rdatalist_p.h
* /lib-tar/lib/dns/include/dns/bit.h
* /lib-tar/lib/isc/unix/fsaccess.c
* /lib-tar/lib/isc/task_p.h
* /lib-tar/lib/dns/sec/dst/include/dst/gssapi.h
* /lib-tar/lib/dns/include/dns/soa.h
* /lib-tar/lib/lwres/context_p.h
* /lib-tar/lib/isc/win32/resource.c
* /lib-tar/lib/isc/include/isc/file.h
*
 /lib-tar/lib/isc/nothreads/thread.c
* /lib-tar/lib/lwres/lwres_gabn.c
* /lib-tar/lib/isc/fsaccess.c
* /lib-tar/lib/lwres/gethost.c
* /lib-tar/lib/dns/include/dns/lookup.h
* /lib-tar/lib/lwres/win32/include/lwres/netdb.h
* /lib-tar/lib/isc/ondestroy.c
* /lib-tar/lib/isc/win32/include/isc/ntpaths.h
* /lib-tar/lib/isc/hmacmd5.c
* /lib-tar/lib/dns/stats.c
* /lib-tar/lib/isc/include/isc/os.h
* /lib-tar/lib/isc/nothreads/include/isc/condition.h
* /lib-tar/lib/dns/include/dns/sdb.h
* /lib-tar/lib/isc/nothreads/condition.c
* /lib-tar/lib/isc/win32/include/isc/offset.h
* /lib-tar/lib/dns/sec/dst/gssapictx.c
* /lib-tar/lib/isc/win32/unistd.h
* /lib-tar/lib/isc/win32/keyboard.c
* /lib-tar/lib/isc/nothreads/include/isc/once.h

* /lib-tar/lib/isc/include/isc/fsaccess.h
* /lib-tar/lib/lwres/win32/include/lwres/platform.h
* /lib-tar/lib/lwres/lwres_noop.c
* /lib-tar/lib/isc/include/isc/formatcheck.h
* /lib-tar/lib/dns/include/dns/keytable.h
* /lib-tar/lib/dns/soa.c
* /lib-tar/lib/dns/include/dns/timer.h
*
 /lib-tar/lib/dns/include/dns/stats.h
* /lib-tar/lib/lwres/version.c
* /lib-tar/lib/lwres/include/lwres/lwres.h
* /lib-tar/lib/lwres/include/lwres/lang.h
* /lib-tar/lib/dns/include/dns/diff.h
* /lib-tar/lib/isc/unix/stdio.c
* /lib-tar/lib/isc/win32/errno2result.h
* /lib-tar/lib/isc/unix/keyboard.c
* /lib-tar/lib/isc/include/isc/hex.h
* /lib-tar/lib/lwres/lwpacket.c
* /lib-tar/lib/isc/include/isc/hmacmd5.h
* /lib-tar/lib/isc/nothreads/include/isc/mutex.h
* /lib-tar/lib/lwres/lwresutil.c
* /lib-tar/lib/isc/quota.c
* /lib-tar/lib/isc/timer_p.h
* /lib-tar/lib/lwres/assert_p.h
* /lib-tar/lib/lwres/include/lwres/lwbuffer.h
* /lib-tar/lib/isc/win32/netdb.h
* /lib-tar/lib/dns/timer.c
* /lib-tar/lib/lwres/win32/include/lwres/int.h
* /lib-tar/lib/lwres/include/lwres/context.h
* /lib-tar/lib/lwres/lwbuffer.c
* /lib-tar/lib/isc/win32/stdio.c
* /lib-tar/lib/isc/win32/include/isc/keyboard.h
* /lib-tar/lib/lwres/include/lwres/netdb.h.in
* /lib-tar/lib/isc/nothreads/include/isc/thread.h
*
 /lib-tar/lib/isc/unix/os.c
* /lib-tar/lib/isc/include/isc/ondestroy.h
* /lib-tar/lib/isc/nothreads/mutex.c
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* /lib-tar/lib/bind/irs/irp_pw.c
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* /lib-tar/lib/lwres/lwinetaton.c
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* /lib-tar/lib/isc/win32/syslog.c
*
 /lib-tar/lib/bind9/check.c
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/*
* This code implements 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.
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*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
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*
* 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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.\" $Id: lwres_buffer.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
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* /lib-tar/lib/bind/nameser/ns_verify.c
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 /lib-tar/lib/bind/include/res_update.h
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* /lib-tar/lib/dns/include/dns/result.h
* /lib-tar/lib/dns/name.c
*
 /lib-tar/lib/dns/result.c
* /lib-tar/lib/dns/include/dns/types.h
* /lib-tar/lib/dns/gen.c
* /lib-tar/lib/dns/include/dns/name.h
* /lib-tar/lib/isc/unix/socket.c
* /lib-tar/lib/isc/include/isc/sockaddr.h
* /lib-tar/lib/dns/time.c
* /lib-tar/lib/dns/rdata.c
* /lib-tar/lib/dns/rcode.c
* /lib-tar/lib/dns/include/dns/rdata.h
* /lib-tar/lib/isc/lex.c
* /lib-tar/lib/isc/task.c
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<!-- $Id: lwres_context.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>
</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>
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<function>lwres_context_create</function></funcdef>
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<paramdef>void *arg</paramdef>
<paramdef>lwres_malloc_t malloc_function</paramdef>
<paramdef>lwres_free_t free_function</paramdef>
</funcprototype>
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lwres_result_t
<function>lwres_context_destroy</function></funcdef>
<paramdef>lwres_context_t
 **contextp</paramdef>
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<funcdef>
void
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<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t serial</paramdef>
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lwres_uint32_t

<function>lwres_context_nextserial</function></funcdef>
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</funcprototype>
<funcprototype>
<funcdef>
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<paramdef>void *mem</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
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<funcdef>
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<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>
</funcsynopsis>
</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>
— typically a lightweight resolver query packet —
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
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</citerefentry>.
</para>
</refsect1>
</refentry>

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* /lib-tar/lib/bind/irs/lcl_pw.c
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* /lib-tar/lib/dns/request.c
* /lib-tar/lib/isc/win32/include/isc/ipv6.h
*
 /lib-tar/lib/isc/pthreads/mutex.c
* /lib-tar/lib/lwres/lwres_gnba.c
* /lib-tar/lib/isc/win32/errno2result.c
* /lib-tar/lib/isc/win32/file.c
* /lib-tar/lib/isc/win32/entropy.c
* /lib-tar/lib/isc/win32/fsaccess.c
* /lib-tar/lib/lwres/unix/include/lwres/net.h
* /lib-tar/lib/dns/sec/dst/include/dst/dst.h
* /lib-tar/lib/isccfg/include/isccfg/cfg.h
* /lib-tar/lib/isc/unix/errno2result.c
* /lib-tar/lib/isc/win32/os.c
* /lib-tar/lib/dns/sec/dst/gssapi_link.c
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* /lib-tar/lib/bind/resolv/res_data.c
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* /lib-tar/lib/isccc/result.c
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* /lib-tar/lib/bind/resolv/res_mkquery.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.

*/

Found in path(s):
* /lib-tar/lib/dns/include/dns/request.h
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* /lib-tar/lib/isc/win32/include/isc/win32os.h
* /lib-tar/lib/isc/include/isc/netscope.h
*
 /lib-tar/lib/isc/region.c
* /lib-tar/lib/dns/include/dns/ds.h
* /lib-tar/lib/dns/sec/dst/dst_openssl.h
* /lib-tar/lib/lwres/win32/lwconfig.c
* /lib-tar/lib/isc/win32/win32os.c
* /lib-tar/lib/isc/netscope.c
* /lib-tar/lib/dns/rdata/generic/ds_43.h
* /lib-tar/lib/dns/include/dns/opcode.h
* /lib-tar/lib/dns/rdata/in_1/apl_42.h
* /lib-tar/lib/dns/order.c
* /lib-tar/lib/dns/rdata/generic/ds_43.c
* /lib-tar/lib/dns/rdata/in_1/apl_42.c
* /lib-tar/lib/isccfg/include/isccfg/namedconf.h
* /lib-tar/lib/dns/include/dns/order.h
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* /lib-tar/lib/dns/sec/dst/dst_parse.h
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* /lib-tar/lib/dns/include/dns/nsec.h
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 /lib-tar/lib/dns/rdata/in_1/px_26.c
* /lib-tar/lib/dns/rdata/in_1/kx_36.c
* /lib-tar/lib/dns/tkey.c
* /lib-tar/lib/dns/rdata/generic/rt_21.c
* /lib-tar/lib/dns/db.c
* /lib-tar/lib/dns/rdatalist.c
* /lib-tar/lib/lwres/print.c
* /lib-tar/lib/lwres/print_p.h
* /lib-tar/lib/dns/rdata/generic/tkey_249.h
* /lib-tar/lib/dns/include/dns/resolver.h
* /lib-tar/lib/dns/rdata/in_1/srv_33.c
* /lib-tar/lib/dns/include/dns/log.h
* /lib-tar/lib/dns/include/dns/keyvalues.h
* /lib-tar/lib/isc/include/isc/print.h
* /lib-tar/lib/dns/nsec.c
* /lib-tar/lib/isc/string.c
* /lib-tar/lib/dns/rdata/generic/afsdb_18.c
* /lib-tar/lib/dns/include/dns/xfrin.h
* /lib-tar/lib/isc/print.c
* /lib-tar/lib/dns/rdata/in_1/naptr_35.c
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```
-->

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

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</refmeta>

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</refnamediv>
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<function>lwres_getnamebyaddr</function></funcdef>
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<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>
</funcsynopsis>
</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->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->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->address</constant> and
<constant>addr->length</constant> indicates the size in bytes of
the address that was copied. <constant>b->current</constant> is
advanced to point at the next byte of available data in the buffer
following the encoded address.
</para>

<para>

<function>lwres_getaddrsbyname()</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_getaddrsbyname()</function> to perform foward 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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*
 /lib-tar/lib/dns/include/dns/callbacks.h
* /lib-tar/lib/dns/include/dns/rdataslab.h

* /lib-tar/lib/dns/rdata/generic/unspec_103.c
* /lib-tar/lib/dns/include/dns/dnssec.h
* /lib-tar/lib/dns/tsig.c
* /lib-tar/lib/isc/include/isc/log.h
* /lib-tar/lib/dns/include/dns/masterdump.h
* /lib-tar/lib/dns/rdata/hs_4/a_1.c
* /lib-tar/lib/dns/journal.c
* /lib-tar/lib/dns/rdata/generic/gpos_27.c
* /lib-tar/lib/dns/rdata/in_1/nsap_22.c
* /lib-tar/lib/dns/include/dns/zt.h
* /lib-tar/lib/dns/include/dns/events.h
* /lib-tar/lib/isc/netaddr.c
* /lib-tar/lib/dns/include/dns/acl.h
* /lib-tar/lib/dns/include/dns/ncache.h
* /lib-tar/lib/isc/ratelimiter.c
* /lib-tar/lib/isc/include/isc/ipv6.h
* /lib-tar/lib/dns/rdata/generic/nxt_30.h
* /lib-tar/lib/dns/rdata/generic/x25_19.c
* /lib-tar/lib/dns/include/dns/rbt.h
* /lib-tar/lib/dns/zt.c
* /lib-tar/lib/isc/include/isc/ratelimiter.h
* /lib-tar/lib/dns/include/dns/master.h
* /lib-tar/lib/dns/rootns.c
* /lib-tar/lib/dns/include/dns/tsig.h
* /lib-tar/lib/dns/rdata/in_1/wks_11.c
*
 /lib-tar/lib/isc/lfsr.c
* /lib-tar/lib/dns/rdata/in_1/aaaa_28.c
* /lib-tar/lib/dns/acl.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>
<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>

</funcsynopsis>
</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><lwres/netdb.h></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_hstrerror</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>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_getnameinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_hstrerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>
</refsect1>
</refentry>

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* /lib-tar/lib/dns/sec/dst/hmac_link.c
* /lib-tar/lib/dns/sec/dst/openssldsa_link.c
* /lib-tar/lib/dns/sec/dst/opensslдh_link.c
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* /lib-tar/lib/dns/validator.c
*
 /lib-tar/lib/isccfg/parser.c
* /lib-tar/lib/lwres/lwconfig.c
* /lib-tar/lib/isc/unix/entropy.c
* /lib-tar/lib/isc/hex.c
* /lib-tar/lib/dns/byaddr.c
* /lib-tar/lib/isc/include/isc/msgs.h
* /lib-tar/lib/dns/include/dns/validator.h
* /lib-tar/lib/isc/entropy.c
* /lib-tar/lib/isc/win32/socket.c
* /lib-tar/lib/dns/sec/dst/opensslrsa_link.c
* /lib-tar/lib/dns/include/dns/byaddr.h
* /lib-tar/lib/dns/diff.c
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* BINOS specific changes to associate memcluster with an evctx
*
* March 2014,
 Aswin Kuppusami
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* /lib-tar/lib/dns/rbtdb64.c
*
 /lib-tar/lib/isc/include/isc/lib.h
* /lib-tar/lib/dns/rbtdb64.h
* /lib-tar/lib/isc/unix/stdtime.c
* /lib-tar/lib/dns/include/dns/time.h
* /lib-tar/lib/isc/unix/include/isc/syslog.h
* /lib-tar/lib/dns/rdata/generic/unspec_103.h
* /lib-tar/lib/isc/win32/app.c
* /lib-tar/lib/isc/include/isc/lang.h
* /lib-tar/lib/dns/rdata/in_1/nsap_22.h
* /lib-tar/lib/isc/win32/once.c
* /lib-tar/lib/isc/bitstring.c
* /lib-tar/lib/isc/unix/include/isc/stdtime.h
* /lib-tar/lib/dns/gen-unix.h
* /lib-tar/lib/dns/include/dns/rootns.h
* /lib-tar/lib/dns/compress.c
* /lib-tar/lib/dns/sec/dst/dst_result.c
* /lib-tar/lib/dns/rdata/in_1/srv_33.h
* /lib-tar/lib/dns/dbtable.c
* /lib-tar/lib/dns/include/dns/fixedname.h
* /lib-tar/lib/isc/bufferlist.c
* /lib-tar/lib/isc/include/isc/bufferlist.h
* /lib-tar/lib/dns/rbtdb.h

* /lib-tar/lib/dns/rdata/in_1/naptr_35.h
* /lib-tar/lib/isc/win32/dir.c
* /lib-tar/lib/dns/include/dns/journal.h
* /lib-tar/lib/isc/unix/include/isc/netdb.h
* /lib-tar/lib/isc/include/isc/lfsr.h
*
 /lib-tar/lib/isc/include/isc/commandline.h
* /lib-tar/lib/dns/rdata/generic/rp_17.h
* /lib-tar/lib/isc/include/isc/msgcat.h
* /lib-tar/lib/isc/win32/interfaceiter.c
* /lib-tar/lib/isc/include/isc/app.h
* /lib-tar/lib/dns/rdata/generic/rp_17.c
* /lib-tar/lib/isc/win32/include/isc/int.h
* /lib-tar/lib/isc/nls/msgcat.c
* /lib-tar/lib/dns/callbacks.c
* /lib-tar/lib/dns/include/dns/tkey.h
* /lib-tar/lib/dns/dbiterator.c
* /lib-tar/lib/isc/unix/include/isc/int.h
* /lib-tar/lib/dns/rdata/generic/sig_24.h
* /lib-tar/lib/dns/sec/dst/include/dst/lib.h
* /lib-tar/lib/dns/rdata/generic/cert_37.h
* /lib-tar/lib/isc/unix/dir.c
* /lib-tar/lib/dns/rdata/rdatastructpre.h
* /lib-tar/lib/dns/include/dns/secproto.h
* /lib-tar/lib/dns/rdata/in_1/a6_38.h
* /lib-tar/lib/isc/taskpool.c
* /lib-tar/lib/isc/include/isc/base64.h
* /lib-tar/lib/isc/include/isc/bitstring.h
* /lib-tar/lib/isc/win32/stdtime.c
* /lib-tar/lib/dns/rdata/in_1/aaaa_28.h
* /lib-tar/lib/dns/sec/dst/dst_lib.c
* /lib-tar/lib/isc/win32/include/isc/stdtime.h
*
 /lib-tar/lib/dns/rdata/generic/dname_39.c
* /lib-tar/lib/dns/rdata/generic/dname_39.h
* /lib-tar/lib/isc/win32/ipv6.c
* /lib-tar/lib/dns/rdatasetiter.c
* /lib-tar/lib/dns/rdata/in_1/nsap-ptr_23.c
* /lib-tar/lib/dns/rdata/generic/key_25.h
* /lib-tar/lib/dns/tcpmsg.c
* /lib-tar/lib/dns/rdata/in_1/nsap-ptr_23.h
* /lib-tar/lib/dns/rdata/generic/loc_29.h
* /lib-tar/lib/isc/win32/include/isc/netdb.h
* /lib-tar/lib/dns/rdata/in_1/px_26.h
* /lib-tar/lib/isc/serial.c
* /lib-tar/lib/dns/include/dns/rdatalist.h
* /lib-tar/lib/dns/include/dns/lib.h
* /lib-tar/lib/isc/include/isc/resultclass.h

* /lib-tar/lib/dns/lib.c
* /lib-tar/lib/dns/include/dns/keyflags.h
* /lib-tar/lib/isc/include/isc/serial.h
* /lib-tar/lib/dns/sec/dst/include/dst/result.h
* /lib-tar/lib/dns/include/dns/cache.h
* /lib-tar/lib/isc/include/isc/magic.h
* /lib-tar/lib/isc/pthreads/include/isc/once.h
* /lib-tar/lib/dns/include/dns/cert.h
* /lib-tar/lib/dns/include/dns/rdatasetiter.h
* /lib-tar/lib/dns/ttl.c
*
 /lib-tar/lib/dns/rdata/generic/isdn_20.h
* /lib-tar/lib/isc/include/isc/random.h
* /lib-tar/lib/isc/win32/include/isc/once.h
* /lib-tar/lib/dns/rdata/any_255/tsig_250.h
* /lib-tar/lib/isc/lib.c
* /lib-tar/lib/isc/win32/include/isc/syslog.h
* /lib-tar/lib/dns/rdata/in_1/kx_36.h
* /lib-tar/lib/isc/win32/include/isc/dir.h
* /lib-tar/lib/isc/include/isc/interfaceiter.h
* /lib-tar/lib/dns/rdata/generic/gpos_27.h
* /lib-tar/lib/dns/rdata/generic/rt_21.h
* /lib-tar/lib/dns/include/dns/tcpmsg.h
* /lib-tar/lib/isc/include/isc/taskpool.h
* /lib-tar/lib/dns/include/dns/rcode.h
* /lib-tar/lib/isc/mutexblock.c
* /lib-tar/lib/tests/include/tests/t_api.h
* /lib-tar/lib/isc/include/isc/mutexblock.h
* /lib-tar/lib/dns/include/dns/dbtable.h
* /lib-tar/lib/dns/rdata/hs_4/a_1.h
* /lib-tar/lib/dns/include/dns/dbiterator.h
* /lib-tar/lib/dns/rdata/generic/x25_19.h
* /lib-tar/lib/dns/rdata/rdatastructsuf.h
* /lib-tar/lib/lwres/include/lwres/lwpacket.h
* /lib-tar/lib/dns/include/dns/ttl.h
* /lib-tar/lib/dns/include/dns/secalg.h
*
 /lib-tar/lib/isc/unix/ipv6.c
* /lib-tar/lib/dns/rdata/generic/afsdb_18.h
* /lib-tar/lib/dns/rdata/in_1/wks_11.h
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Found in path(s):
* /lib-tar/lib/isccfg/namedconf.c
* /lib-tar/lib/isccfg/include/isccfg/grammar.h
*
 /lib-tar/lib/dns/ds.c
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.\"
.\" $Id: lwres_gai_strerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"

Found
 in path(s):
* /lib-tar/lib/lwres/man/lwres_gai_strerror.3
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Found in path(s):
* /lib-tar/lib/bind/irs/getnetent.c
* /lib-tar/lib/bind/irs/dns_sv.c
*
 /lib-tar/lib/bind/port/mpe/include/sys/bitypes.h
* /lib-tar/lib/bind/irs/hesiod_p.h
* /lib-tar/lib/bind/irs/getpwent.c
* /lib-tar/lib/bind/irs/dns_pw.c
* /lib-tar/lib/bind/nameser/ns_parse.c
* /lib-tar/lib/bind/irs/nis_ng.c
* /lib-tar/lib/bind/irs/getnetgrent.c
* /lib-tar/lib/bind/port/aix4/include/sys/bitypes.h
* /lib-tar/lib/bind/port/sco42/include/sys/bitypes.h
* /lib-tar/lib/bind/irs/hesiod.c
* /lib-tar/lib/bind/irs/util.c
* /lib-tar/lib/bind/include/hesiod.h
* /lib-tar/lib/bind/port/hpux/include/sys/bitypes.h
* /lib-tar/lib/bind/irs/gen_sv.c
* /lib-tar/lib/bind/irs/dns_pr.c
* /lib-tar/lib/bind/inet/inet_pton.c
* /lib-tar/lib/bind/port/bsdos/include/sys/bitypes.h
* /lib-tar/lib/bind/port/hpux9/include/sys/bitypes.h
* /lib-tar/lib/bind/port/lynxos/include/sys/bitypes.h
* /lib-tar/lib/bind/nameser/ns_ttl.c
* /lib-tar/lib/bind/include/irs.h
* /lib-tar/lib/bind/irs/getprotoent.c
* /lib-tar/lib/bind/irs/nis_sv.c
* /lib-tar/lib/bind/port/qnx/include/sys/bitypes.h
* /lib-tar/lib/bind/port/netbsd/include/sys/bitypes.h
*
 /lib-tar/lib/bind/irs/lcl_p.h
* /lib-tar/lib/bind/port/bsdos2/include/sys/bitypes.h
* /lib-tar/lib/bind/irs/irs_data.h
* /lib-tar/lib/bind/inet/inet_net_pton.c
* /lib-tar/lib/bind/port/hpux10/include/sys/bitypes.h
* /lib-tar/lib/bind/inet/inet_net_ntop.c
* /lib-tar/lib/bind/irs/irs_p.h
* /lib-tar/lib/bind/nameser/ns_netint.c

* /lib-tar/lib/bind/irs/irs_data.c
* /lib-tar/lib/bind/irs/gen_pw.c
* /lib-tar/lib/bind/irs/getservent.c
* /lib-tar/lib/bind/port/decunix/include/sys/bitypes.h
* /lib-tar/lib/bind/irs/nis_ho.c
* /lib-tar/lib/bind/port/freebsd/include/sys/bitypes.h
* /lib-tar/lib/bind/irs/gen_ho.c
* /lib-tar/lib/bind/irs/nis_p.h
* /lib-tar/lib/bind/irs/nis_pr.c
* /lib-tar/lib/bind/port/aix32/include/sys/bitypes.h
* /lib-tar/lib/bind/port/cygwin/include/sys/bitypes.h
* /lib-tar/lib/bind/port/unixware20/include/sys/bitypes.h
* /lib-tar/lib/bind/port/sunos/include/sys/bitypes.h
* /lib-tar/lib/bind/irs/gen_p.h
* /lib-tar/lib/bind/irs/gen_nw.c
*
 /lib-tar/lib/bind/port/openbsd/include/sys/bitypes.h
* /lib-tar/lib/bind/irs/gen_pr.c
* /lib-tar/lib/bind/nameser/ns_name.c
* /lib-tar/lib/bind/irs/nis_nw.c
* /lib-tar/lib/bind/port/ultrix/include/sys/bitypes.h
* /lib-tar/lib/bind/irs/gen_ng.c
* /lib-tar/lib/bind/irs/nis_pw.c
* /lib-tar/lib/bind/isc/bitncmp.c
* /lib-tar/lib/bind/irs/pathnames.h
* /lib-tar/lib/bind/port/unixware212/include/sys/bitypes.h
* /lib-tar/lib/bind/port/next/include/sys/bitypes.h
* /lib-tar/lib/bind/irs/nul_ng.c
* /lib-tar/lib/bind/inet/inet_neta.c
* /lib-tar/lib/bind/port/irix/include/sys/bitypes.h
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Found in path(s):
* /lib-tar/lib/bind/irs/irp_gr.c
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```
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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/pthreads
   then
```

```
   AC_MSG_RESULT(none)
   use_threads=false
  fi

  if $use_threads
  then
   AC_MSG_RESULT(mit-pthreads/unproven-pthreads)
   pkg="$LOCALBASE/pthreads"
   lib1="-L$pkg/lib -Wl,-R$pkg/lib"
   lib2="-lpthread
-lm -lgcc -lpthread"
   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_IFNAMELINKID="#define USE_IFNAMELINKID 1"],
 [USE_IFNAMELINKID="#undef USE_IFNAMELINKID"])
AC_SUBST(USE_IFNAMELINKID)

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 signficant.
#

#
# 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
$isc_netinet6in6_hack
],
  [struct
 sockaddr_in6 xyzzy; xyzzy.sin6_scope_id = 0; return (0);],
   [AC_MSG_RESULT(yes)
    result="#define HAVE_SIN6_SCOPE_ID 1"],
   [AC_MSG_RESULT(no)
    result="#undef HAVE_SIN6_SCOPE_ID"])
  HAVE_SIN6_SCOPE_ID="$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 xyzzy; 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_SYSERROR_LIST="#undef
 USE_SYSERROR_LIST"],
 [USE_SYSERROR_LIST="#define USE_SYSERROR_LIST 1"])
AC_SUBST(USE_SYSERROR_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_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 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 sptr"
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):
* /lib-tar/lib/bind/configure.in
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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>
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<function>lwres_gethostent_r</function></funcdef>
<paramdef>struct hostent *resbuf</paramdef>
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<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
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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><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 &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>,
<function>lwres_endhostent()</function>,
<function>lwres_gethostent_r()</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> — 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.
</para>

<para>
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> — <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.
</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> — <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><lwres/netdb.h></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_hstrerror</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>
<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_hstrerror</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>

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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" elapased_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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* /lib-tar/lib/bind/isc/logging.c
*
 /lib-tar/lib/bind/irs/gen.c
* /lib-tar/lib/bind/irs/nis.c
* /lib-tar/lib/bind/include/isc/logging.h
* /lib-tar/lib/bind/nameser/ns_print.c
* /lib-tar/lib/bind/resolv/res_update.c
* /lib-tar/lib/bind/inet/inet_ntop.c
* /lib-tar/lib/bind/isc/logging_p.h
* /lib-tar/lib/bind/irs/gen_gr.c
* /lib-tar/lib/bind/irs/dns_nw.c
* /lib-tar/lib/bind/irs/dns_p.h
* /lib-tar/lib/bind/inet/nsap_addr.c
* /lib-tar/lib/bind/resolv/res_mkupdate.c

* /lib-tar/lib/bind/irs/lcl.c
* /lib-tar/lib/bind/irs/dns.c
* /lib-tar/lib/bind/irs/getgrent.c
* /lib-tar/lib/bind/irs/lcl_ng.c
* /lib-tar/lib/bind/irs/dns_gr.c
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* /lib-tar/lib/isccc/ccmsg.c
* /lib-tar/lib/isccc/include/isccc/symtab.h
* /lib-tar/lib/isccc/lib.c
* /lib-tar/lib/isccc/include/isccc/sexpr.h
* /lib-tar/lib/isccc/symtab.c
* /lib-tar/lib/isccc/include/isccc/types.h
* /lib-tar/lib/isccc/include/isccc/base64.h
* /lib-tar/lib/isccc/include/isccc/alist.h
* /lib-tar/lib/isccc/include/isccc/util.h
* /lib-tar/lib/isccc/include/isccc/symtype.h
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.\"
.\" $Id: lwres_gnba.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
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* /lib-tar/lib/lwres/man/lwres_gnba.3
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     */
```

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*
* @(#)cdefs.h 8.7 (Berkeley) 1/21/94
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* /lib-tar/lib/bind/port/aux3/include/sys/cdefs.h
* /lib-tar/lib/bind/port/qnx/include/sys/cdefs.h
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* /lib-tar/lib/bind/irs/dns_ho.c
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* /lib-tar/lib/isc/include/isc/heap.h
* /lib-tar/lib/isc/include/isc/mem.h
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 /lib-tar/lib/isc/assertions.c
* /lib-tar/lib/isc/heap.c
* /lib-tar/lib/isc/include/isc/assertions.h
* /lib-tar/lib/lwres/include/lwres/list.h

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* /lib-tar/lib/dns/rdata/generic/nsec_47.c
* /lib-tar/lib/dns/rdata/generic/sshfp_44.h
*
 /lib-tar/lib/isc/include/isc/stdlib.h
* /lib-tar/lib/isc/unix/ifiter_getifaddrs.c
* /lib-tar/lib/isc/unix/include/isc/stat.h
* /lib-tar/lib/dns/portlist.c
* /lib-tar/lib/dns/rdata/generic/sshfp_44.c
* /lib-tar/lib/dns/rdata/generic/rrsig_46.h
* /lib-tar/lib/dns/rdata/generic/dnskey_48.h
* /lib-tar/lib/dns/rdata/generic/dnskey_48.c
* /lib-tar/lib/dns/rdata/generic/rrsig_46.c
* /lib-tar/lib/dns/include/dns/portlist.h
* /lib-tar/lib/dns/rdata/generic/nsec_47.h
* /lib-tar/lib/isc/include/isc/hash.h
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* /lib-tar/lib/isc/base64.c
* /lib-tar/lib/isc/include/isc/rwlock.h
* /lib-tar/lib/isc/unix/time.c
* /lib-tar/lib/isc/include/isc/task.h
* /lib-tar/lib/dns/rdata/generic/mx_15.c
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* /lib-tar/lib/bind/bsd/utimes.c
* /lib-tar/lib/bind/include/isc/heap.h
* /lib-tar/lib/bind/isc/assertions.c
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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 &lt;lwres/netdb.h&gt;</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 —
<type>SOCK_STREAM</type>,
<type>SOCK_DGRAM</type>
or
<type>SOCK_RAW</type>
— 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
<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.

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
<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2
</manvolnum>
</citerefentry>
for a connection-oriented protocol or
<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

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 cn 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>,

<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.
</para>

</refsect1>
</refentry>

Found
 in path(s):
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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 delared.
*/
@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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* /lib-tar/lib/lwres/include/lwres/platform.h.in
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*/
```

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* /lib-tar/lib/bind/include/isc/ctl.h
* /lib-tar/lib/bind/isc/ctl_srvr.c
*
 /lib-tar/lib/bind/isc/ctl_p.c
* /lib-tar/lib/bind/inet/inet_cidr_ntop.c
* /lib-tar/lib/bind/inet/inet_cidr_pton.c
* /lib-tar/lib/bind/isc/ctl_clnt.c
* /lib-tar/lib/bind/resolv/res_mkupdate.h
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/*
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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 delared.
*/
@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 */
```

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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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* /lib-tar/lib/bind/isc/memcluster.mdoc
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* /lib-tar/lib/bind9/win32/version.c
* /lib-tar/lib/dns/rdata/generic/soa_6.h
*
 /lib-tar/lib/dns/include/dns/rdatatype.h
* /lib-tar/lib/isc/version.c
* /lib-tar/lib/isccfg/version.c
* /lib-tar/lib/isc/win32/condition.c
* /lib-tar/lib/dns/rdata/generic/null_10.h
* /lib-tar/lib/isc/include/isc/util.h

* /lib-tar/lib/isc/win32/include/isc/condition.h
* /lib-tar/lib/dns/rdata/generic/ns_2.c
* /lib-tar/lib/isc/win32/include/isc/time.h
* /lib-tar/lib/isc/win32/include/isc/mutex.h
* /lib-tar/lib/dns/rdata/generic/mb_7.h
* /lib-tar/lib/dns/rdata/generic/ns_2.h
* /lib-tar/lib/isc/unix/include/isc/time.h
* /lib-tar/lib/dns/rdata/generic/mr_9.h
* /lib-tar/lib/dns/rdata/generic/md_3.c
* /lib-tar/lib/dns/rdata/generic/minfo_14.h
* /lib-tar/lib/dns/rdata/generic/mx_15.h
* /lib-tar/lib/dns/rdata/generic/minfo_14.c
* /lib-tar/lib/dns/rdata/generic/md_3.h
* /lib-tar/lib/dns/include/dns/rdataclass.h
* /lib-tar/lib/dns/win32/version.c
* /lib-tar/lib/isc/pthreads/include/isc/thread.h
* /lib-tar/lib/dns/rdata/generic/txt_16.h
* /lib-tar/lib/lwres/win32/version.c
* /lib-tar/lib/dns/rdata/generic/mf_4.c
*
 /lib-tar/lib/isccfg/win32/version.c
* /lib-tar/lib/dns/rdata/generic/mf_4.h
* /lib-tar/lib/dns/rdata/generic/mb_7.c
* /lib-tar/lib/dns/version.c
* /lib-tar/lib/isc/event.c
* /lib-tar/lib/dns/rdata/generic/ptr_12.c
* /lib-tar/lib/isc/win32/version.c
* /lib-tar/lib/dns/rdata/generic/opt_41.h
* /lib-tar/lib/isc/win32/include/isc/thread.h
* /lib-tar/lib/dns/rdata/generic/mr_9.c
* /lib-tar/lib/dns/rdata/generic/ptr_12.h
* /lib-tar/lib/isccc/version.c
* /lib-tar/lib/isc/pthreads/condition.c
* /lib-tar/lib/isc/include/isc/eventclass.h
* /lib-tar/lib/isc/error.c
* /lib-tar/lib/dns/rdata/in_1/a_1.h
* /lib-tar/lib/isc/include/isc/boolean.h
* /lib-tar/lib/isc/pthreads/include/isc/condition.h
* /lib-tar/lib/dns/rdata/generic/cname_5.h
* /lib-tar/lib/dns/rdata/generic/mg_8.c
* /lib-tar/lib/isc/win32/thread.c
* /lib-tar/lib/isc/include/isc/error.h
* /lib-tar/lib/dns/rdata/generic/hinfo_13.h
* /lib-tar/lib/dns/rdata/generic/proforma.h
* /lib-tar/lib/dns/rdata/generic/mg_8.h
*
 /lib-tar/lib/dns/rdata/generic/cname_5.c

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* /lib-tar/lib/bind/inet/inet_lnaof.c
* /lib-tar/lib/bind/inet/inet_netof.c
* /lib-tar/lib/bind/inet/inet_network.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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Found in path(s):
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* /lib-tar/lib/dns/rdata/in_1/a_1.c
*
 /lib-tar/lib/dns/rdata/generic/null_10.c
* /lib-tar/lib/isc/include/isc/netaddr.h
* /lib-tar/lib/isc/include/isc/timer.h
* /lib-tar/lib/isc/include/isc/region.h
* /lib-tar/lib/dns/rdata/generic/txt_16.c
* /lib-tar/lib/isc/buffer.c
* /lib-tar/lib/dns/rdata/generic/soa_6.c
* /lib-tar/lib/dns/rdata/generic/proforma.c
* /lib-tar/lib/dns/rdata/generic/hinfo_13.c
* /lib-tar/lib/isc/pthreads/include/isc/mutex.h
* /lib-tar/lib/dns/rdata/generic/opt_41.c
* /lib-tar/lib/isc/include/isc/socket.h
* /lib-tar/lib/isc/include/isc/event.h
* /lib-tar/lib/isc/include/isc/lex.h
* /lib-tar/lib/isc/timer.c
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* /lib-tar/lib/dns/include/dns/peer.h
*
 /lib-tar/lib/dns/ssu.c
* /lib-tar/lib/dns/peer.c
* /lib-tar/lib/isc/win32/include/isc/stat.h
* /lib-tar/lib/isc/include/isc/string.h
* /lib-tar/lib/dns/sdb.c
* /lib-tar/lib/dns/include/dns/ssu.h
* /lib-tar/lib/isc/pthreads/thread.c
* /lib-tar/lib/lwres/context.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>

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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_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 a to 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>

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* /lib-tar/lib/lwres/man/lwres_buffer.docbook
* /lib-tar/lib/lwres/man/lwres_getaddrinfo.html
* /lib-tar/lib/lwres/man/lwres_hstrerror.docbook
* /lib-tar/lib/lwres/man/lwres_config.html
* /lib-tar/lib/lwres/man/lwres_getnameinfo.docbook
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 /lib-tar/lib/lwres/man/lwres_gethostent.html
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* /lib-tar/lib/bind/port/irix/include/sys/cdefs.h
* /lib-tar/lib/bind/port/unixware212/include/sys/cdefs.h
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* /lib-tar/lib/bind/irs/gethostent_r.c
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/*
* msg_eventlib.c - Error messages for evlib
*
* January 2007, Vikram Visweswaraiah
*
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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
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* Equivalent code is available from RSA Data Security, Inc.
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*

* 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>.
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* /lib-tar/lib/bind/irs/lcl_nw.c
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* /lib-tar/lib/dns/dnssec.c
* /lib-tar/lib/dns/master.c
* /lib-tar/lib/dns/include/dns/rdataset.h
* /lib-tar/lib/dns/rdata/generic/sig_24.c
* /lib-tar/lib/dns/xfrin.c
* /lib-tar/lib/dns/include/dns/adb.h
* /lib-tar/lib/dns/adb.c
* /lib-tar/lib/isc/unix/ifiter_sysctl.c
* /lib-tar/lib/dns/rdata/generic/key_25.c
* /lib-tar/lib/dns/cache.c
* /lib-tar/lib/dns/masterdump.c
* /lib-tar/lib/dns/include/dns/view.h
* /lib-tar/lib/dns/dispatch.c
* /lib-tar/lib/isc/win32/include/isc/net.h
* /lib-tar/lib/isc/unix/ifiter_ioctl.c
* /lib-tar/lib/dns/zone.c
* /lib-tar/lib/isc/unix/interfaceiter.c
* /lib-tar/lib/isc/log.c
* /lib-tar/lib/isc/include/isc/types.h
* /lib-tar/lib/isc/unix/app.c
* /lib-tar/lib/dns/rbt.c
* /lib-tar/lib/dns/rdata/generic/nxt_30.c
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* /lib-tar/lib/dns/include/dns/db.h

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1.333 libksba 1.3.5

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3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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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.)

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or for a fee, you must give the recipients all the rights that we gave
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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
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Most GNU software, including some
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one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

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

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

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

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

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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.

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and what the program that uses the Library does.

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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.

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

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

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

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

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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

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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
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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(Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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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

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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.

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

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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.>
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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:

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

That's all there is to it!

1.336 libassuan 2.5.1

1.336.1 Available under license :

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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

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When a "work that uses the Library" uses material from a header file
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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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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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a) Accompany the
work with the complete corresponding
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with a modified version of the library, if
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Version 3, 29 June 2007

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1.343 zlib 1.2.7

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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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1.347 iproute 5.9.0

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1.348 procps 3.3.15

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1.350 libfastjson 0.99.8

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

e) Verify that the user has already received a copy of these

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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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1.354 libusbx 1.0.23

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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
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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

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1.355 glibc 2.28

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application. Therefore, Subsection 2d requires that any
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@item
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@enumerate a
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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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However, linking a "work that uses the Library" with the Library

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

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a) Accompany the work with the complete corresponding machine-readable
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user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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its purpose remains meaningful.

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

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.360 centos-stream-repos 8

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1.361 pcre 10.32

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

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

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

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

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

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refers to a function or a
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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.

(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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This option is useful when you wish to copy part of the code of
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must be distributed
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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Library, but is designed to work with the Library by being compiled or
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work, in isolation, is not a derivative work of the Library, and
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However, linking a "work that uses the Library" with the Library
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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
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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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containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

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

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

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

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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Linking with OpenSSL

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1.365 remote-lib-genmc 2.2.0

1.365.1 Available under license :

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):
* /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.

/*

```
*------------------------------------------------------------------
* 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):
* /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_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)
*
* Copyright (c) 2011, 2017, 2019-2020 by Cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/
```

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* /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)
*
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved.
*
*/
```

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include $($(Nx)BUILD_DIR)/Makefile-crankshaft.binos

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/*
*--
* 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
*
* Copyright (c) 2012-2014, 2016 by Cisco Systems, Inc.
* All rights reserved.
*--
*/

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/*
* This file contains Octeon CN6300 APIs prototype.
*
* March 2011, Nidhi Shah (nidshah@cisco.com)
*
* Copyright (c) 2011-2012, 2017, 2019 by Cisco Systems, Inc.
* All rights reserved.
*
*/

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license: 'Cavium Commercial & Cisco Proprietary'

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* /remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/pkg-info.yaml
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/*
*--

```
* 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.
*-----------------------------------------------------------------
*/
```

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* /remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon_pci_dmap.c
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```
/*
*-----------------------------------------------------------------
* 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.
*-----------------------------------------------------------------
*/
```

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* /remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon_lock_test.c
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```
/*
* This file contains Octeon CN6300 initialization APIs.
*
* March 2011, Nidhi Shah (nidshah@cisco.com)
* Copyright (c) 2011 by Cisco Systems, Inc.
* All rights reserved.
*
*/
```

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* /remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon_remote_dyno_api.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):
* /remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon_pci_dmap_priv.h
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```
#
# 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
#
# Copyright (c) 2010-2012, 2014-2018, 2021 by Cisco Systems, Inc.
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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 manualy 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 $$(@D)/configs
 $(TOUCH) $$@
endef
$(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 -lbinos
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):
* /remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/Makefile-crankshaft.binos

1.366 marvell_cpss 4.0.8

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1.367 mcelog 170-r0

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1.368 minmea 1.0

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1.370 tcpdump 4.9.3-r0

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1.371 dpdk 20.11.3

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

a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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a program that is not a library.

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

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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
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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.

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.

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That's all there is to it!

1.373 octeon_pci_lib 3.1.2

1.373.1 Available under license :

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David Gibson <david@gibson.dropbear.id.au>
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2 November 2007

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1.374 octeon_utils 3.1.2

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-- Wolfgang Denk
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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

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1.375 gmp 6.1.2

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1.384 netkit-telnet 0.17-r0

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1.387 sfdisk 2.25.2-r0

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DAMAGE.
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

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1.388 libtool 2.4.6-r0

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1.389 netcat 0.7.1-r3

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Source: https://wiki.opendaylight.org/view/OpFlex:Main

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1.392 lzo 2.10-r0

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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: */
```

1.393 python3-pycrypto 2.6.1-r0

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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
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	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
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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. Litzenberger <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: (vmailmgr-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=gyTqkRhKlHadFKIZCBWsRbnMNVDq1PWlJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac
Vn55qlIqTdom4e9zlUEE6MwZo9kqi/Qw0L/SLib0DlQeNqo/eHYqPmuVswltaYwNAyMJ
Y9++76rPGzqYdALsfvsmwv7Q3/bEmjVTr0tQE=
DomainKey-Signature: a=rsa-sha1; c=nofws;
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> wro=
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!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
blic
> domain all your contributions to PyCrypto, with the following notice?
>
> =C2=A0=3D=3D=3D

--=20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin

From dlitz@dlitz.net Mon Aug 3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: 8bit
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.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: 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. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>
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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. Litzenberger <dlitz@dlitz.net>
 Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Sat Apr 18 09:14:20 2009
Date: Sat, 18 Apr 2009 09:14:20 -0400
From: "Dwayne C. Litzenberger" <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,

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    ==
    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
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Below, I have quoted a public domain dedication that was recommended in
_Intellectual Property and Open Source: A Practical
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Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
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```
=====================================================================
The contents of this file are dedicated to the public domain. To the
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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: (vmailmgr-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/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3sEY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB2aU=
DomainKey-Signature:a=rsa-sha1; q=dns; c=nofws;
 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+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxeFooebhuTE35grGqlomOJLwM0+mZwRb6rGkDj763caOAlo8Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3jeo=;
Message-ID:
 <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOlGCX6oVnG3u.CgqzAffY4vZSnfTT8wnCkzZNZ_g6k.XUc3ipo_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVytp50clsUFSHzf7Zbpa8P1Yoe_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11Xonq8h_TmzX9g84Bin9g_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv_bj_Ghxw--
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,
> and I am
> working on a new release at http://www.pycrypto.org/.
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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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>> suitability for any purpose, express
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>> 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
>>
>

--
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
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: (vmailmgr-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 (tmda-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+q0E7eE8VtnvvijUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t
UNjJ/kv8QLz/aq2fi/HNjyrwnqFnUl0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq
sxbzCOpjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQlOhJQ6o
XYhY+HbRjsD741/GSpOt9IlN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/
W/pqSSlPkwmbhlPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==
=3oIX
-----END
PGP SIGNATURE-----
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.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
FektbDOzkxgc5580MGGeeX/MVn8aw+1BHg0YD85gsntlDzkcQtb+BR/xAvJ5zKyA
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKoBx+/5+t1lLJtBcZ
wrPEa9Oui9s=
=zSY9
-----END PGP SIGNATURE-----
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 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
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

Hi Andrew,

People
 often ask me what license PyCrypto is covered by, if it's=20
GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20
The text in the current LICENSE file (quoted below) is not entirely clear=
=20
on the point of whether distributing modified versions is allowed. (It=20
says "distribute and use", but not "modify".)

   =3D=3D=3D=

Guide to Protecting Code_, by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable=20
contributions to PyCrypto, with the following notice?

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
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.
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D

Regards,
- Dwayne

--=20
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

--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
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
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: (vmailmgr-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. Litzenberger <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: (vmailmgr-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=oMjI22lIxYiJKge2zNJW3rRiUi9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY
B5E6VQuGVEyzBbNsctyVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas
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=Ym7CStuDEfJKay1AJyWZkZmJA1lnTcwCG6akBHAXLld8ht6PFcmlsffzZG8hJCIVJ8
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.
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> ==
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> extent that dedication to the public domain is not available, everyone
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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
>

--
Jeethu Rao

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

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha25=
6 module, IIRC). I'd
 be fine with the public domain license f=
or PyCrypto.
 Jeethu Rao PS: Apologies fo=
r the delay in my response.=A0
I don't really check this email address all that often, =
please direct any further correspondence to <a href=3D"mailto:jeethu@jeethu=
rao.com">jeethu@jeethurao.com

<div class=3D"gmail_quote">On=
Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <span dir=3D"ltr"><=
dlitz@dlitz.net> wrote:<br=
>
<blockquote class=3D"gmail_quote" style=3D"margin:0 0 0 .8ex;border-left:1p=
x #ccc solid;padding-left:1ex;">Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am workin=
g on a new release at <a href=3D"http://www.pycrypto.org/" target=3D"_blank=
">http://www.pycrypto.org/.

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dissemination and usage except those imposed by the laws of your
country of residence. =A0This software is provided "as is" withou=
t
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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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 =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(<a href=3D"http://www.amk.ca" target=3D=
"_blank">www.amk.ca)

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Regards,
- Dwayne

--
Dwayne C. Litzenberger
 <<a href=3D"mailto:dlitz@dlitz.net" target=3D"_bl=
ank">dlitz@dlitz.net>
=A0 =A0 =A0Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A04A24 928C EC1=
3 39C2 5CF7
</blockquote>
<br clear=3D"all">
--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054--
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
  LEGAL/copy/LICENSE.python-2.2
 for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or
source code may be subject to regulation in your jurisdiction.
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".)

```
==========================================================================
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
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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 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: (vmailmgr-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:
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Regards,
Joris

Citeren
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> Regards,
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>
> --
> Dwayne C. Litzenberger <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. Litzenberger" <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.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
MIME-Version:
 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@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:
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>> Dwayne C. Litzenberger <dlitz@dlitz.net>
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>
>

--
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

From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <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

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===================================================================

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--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?

```
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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 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
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 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. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=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. Litzenberger 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

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Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLDHI6agk
evkJnSJQAcVHlZnVlVeR5IXgvDUMakZjU4SOV7MqkhsKA9lIet7PaD9VSYgn3ra5
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SK4w9VBJtfY=3D
=3DQduY
-----END PGP SIGNATURE-----
Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <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>

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Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger 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
> 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, and he has approved the
> following dedication for his contributions.
>
> May I, on your behalf, dedicate
 to the public domain all your
> contributions to PyCrypto, with the following notice?
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> ==
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robey

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Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ
SH8AoLJgaq1lIi7/ZYDc+/Cd8VO0xLbr
=Mv6g
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1.394 initscripts 1.0-r155

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Upstream-Status: Inappropriate [licensing]

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new file mode 100644
index 0000000..d511905
--- /dev/null
+++ b/COPYING
@@ -0,0 +1,339 @@
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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
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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
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code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
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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.

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

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1.396 i2c-tools 4.1-r0

1.396.1 Available under license :

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

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

In addition, mere aggregation of another work not based on the Library

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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
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5. A program that contains no derivative of any portion of the
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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.)

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

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

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

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1.398 traceroute 2.1.0-r0

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and valid for as
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more than your reasonable cost of physically performing this
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only if you received the object code with such an offer, in accord
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Corresponding Source in
the same way through the same place at no
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@enumerate 0
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1.400 which 2.21-r3

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1.404 dmidecode 3.2-r0

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1.405 gdbm 1.18.1-r0

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1.408 acpid 2.0.32-r0

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1.409 bzip2 1.0.8-r0

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1.410 audit 2.8.5-r0

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<!-- 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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  </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
 - End:
-->
```

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Mark Lord (mlord@pobox.com)

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1.421 libnl3 3.5.0-r0

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1.422 pam 1.3.1-r0

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1.423 gzip 1.10-r0

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1.428 nmap 7.80-r0

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Written
 by: Philip Hazel
Email local part: ph10
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1.429 fuse 2.9.9-r0

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1.433 netbase 6.1-r0

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1.434 pyrsistent 0.17.3-r0

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1.435 python-certifi 2020.6.20-r0

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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 $

1.436 glib 2.64.5-r0

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1.446 python-setuptools 49.6.0-r0

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1.447 python-requests 2.24.0-r0

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1.448 tpm2-abrmd 2.3.3-r0

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1.450 cffi 1.14.3-r0

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1.451 async-timeout 3.0.1-r0

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1.452 wireshark 3.2.10-r0

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By Gerald Combs <gerald@wireshark.org>
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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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*   Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
```

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1.456 click 7.1.2-r0

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Found in path(s):
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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/

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binary only, patch it back to the system, and then use a wrapper

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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):
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1.457 iniconfig 1.1.1-r0

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1.458 aiohttp 3.7.2-r0

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1.461 nghttp2 1.41.0-r0

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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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1.462 oauthlib 3.1.0-r0

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1.463 vcversioner 2.16.0.0-r0

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1.464 ptyprocess 0.6.0-r0

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1.465 idna 2.10-r0

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* /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):
* /kjd-idna-v2-10-0-ge5c11db-tar-gz/kjd-idna-b8defb9/setup.py

1.466 tpm2-tools 5.0-r0

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1.467 jsonschema 3.2.0-r0

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1.468 websocket-client 0.57.0-r0

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1.469 tpm2-tss-tcti 3.0.1-r0

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1.470 attrs 20.2.0-r0

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1.474 pexpect 4.8.0-r0

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1.475 python-lxml 4.6.1-r0

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1.476 pam 1.3.1

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1.478 popt 1.16

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1.479 bridgeutils 1.6-r0

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

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1.480 libaio 0.3.111-r0

1.480.1 Available under license :

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

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

That's all there is to it!

1.481 tftp-hpa 5.2-r0

1.481.1 Available under license :

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

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Found in path(s):
* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/MCONFIG.in
No license file was found, but licenses were detected in source scan.

/* -- *
*
*   Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
*   This program is free software available under the same license
*   as the "OpenBSD" operating system, distributed at
*   http://www.openbsd.org/.
*
* -- */

Found in path(s):
* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package
 provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}

```
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
```

- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

*
Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
-
 update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug
 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

*
 Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

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- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp.spec.in
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* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in
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* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/remap.c
* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
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* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.h
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* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
*
/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp/main.c
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Found
 in path(s):
* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c
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Found in path(s):
* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp/extern.h
*
 /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h
No license file was found, but licenses were detected in source scan.

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*
* ------------------------------------------------------------------------ */

Found in path(s):
* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/config.h
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
```

```
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine.  This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp-server package provides
 the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :
```

```
%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32
```

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun
21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update
to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)

- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000
 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
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* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
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* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
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- compress man pages (again).

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 Jan 4 2000 Bill Nottingham <notting@redhat.com>
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- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
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- compile for 6.0.

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- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
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1.482 yajl 2.1.0-r0

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1.483 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
Platforms: Requires ANSI C-compiler.
Copying-policy: BeerWare: If you have the time and
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1.484 tipcconfig 2.0.6-r0

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