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   1.497.1 Available under license

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The next request is for sections 1, 6, 7 & 8 only
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isccc/include/isccc/util.h
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/ *
* Get the response to 'request' by filling in 'message'.

---

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'options' is passed to dns_message_parse(). See dns_message_parse()
for more details.

Requires:

'request' is a valid request for which the caller has received the
completion event.

The result code of the completion event was ISC_R_SUCCESS.

Returns:

ISC_R_SUCCESS

Any result that dns_message_parse() can return.

*/

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$Id: lwres.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/time.h
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Found in path(s):
<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>#include &lt;lwres/netdb.h&gt;</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>
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>

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>

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>

void
<function>lwres_sethostent_r</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>

void
<function>lwres_endhostent_r</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
These functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver. They are similar to the standard functions provided by most operating systems. They use a

```c
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 */
```

The members of this structure are:

- **h_name**: The official (canonical) name of the host.
- **h_aliases**: A NULL-terminated array of alternate names (nicknames) for the host.
- **h_addrtype**: The type of address being returned — `PF_INET` or...
The length of the address in bytes.

For backward compatibility with very old software, \texttt{h_addr} is the first address in \texttt{h_addr_list}.

\begin{function}
\texttt{lwres_gethostent()}, \texttt{lwres_sethostent()}, \texttt{lwres_endhostent()}, \texttt{lwres_gethostent_r()}, \texttt{lwres_sethostent_r()}
\end{function}

and

\begin{function}
\texttt{lwres_endhostent_r()}
\end{function}

provide iteration over the known host entries on systems that provide such functionality through facilities like \texttt{/etc/hosts} or NIS. The lightweight resolver does not currently implement these functions; it only provides them as stub functions that always return failure.

\begin{function}
\texttt{lwres_gethostbyname()}
\end{function} and

\begin{function}
\texttt{lwres_gethostbyname2()}
\end{function} look up the hostname \texttt{name}.

\begin{function}
\texttt{lwres_gethostbyname()}
\end{function} always looks for an IPv4 address while \begin{function}
\texttt{lwres_gethostbyname2()}
\end{function} looks for an address of protocol family \texttt{af}.
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<type>PF_INET</type> or <type>PF_INET6</type> &mdash; IPv4 or IPv6 addresses respectively. Successful calls of the functions return a <type>struct hostent</type> for the name that was looked up. NULL is returned if the lookups by <function>lwres_gethostbyname()</function> or <function>lwres_gethostbyname2()</function> fail.

Reverse lookups of addresses are performed by <function>lwres_gethostbyaddr()</function>. <parameter>addr</parameter> is an address of length <parameter>len</parameter> bytes and protocol family <parameter>type</parameter> &mdash; <type>PF_INET</type> or <type>PF_INET6</type>. <function>lwres_gethostbyname_r()</function> is a thread-safe function for forward lookups. If an error occurs, an error code is returned in <parameter>*error</parameter>. <parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <function>lwres_gethostbyname_r()</function>.

<function>lwres_gethostbyaddr_r()</function> is a thread-safe function that performs a reverse lookup of address <parameter>addr</parameter> which is <parameter>len</parameter> bytes long and is of protocol family <parameter>type</parameter> &mdash; <type>PF_INET</type> or <type>PF_INET6</type>. If an error occurs, the error code is returned in <parameter>*error</parameter>. The other function parameters are identical to those in <function>lwres_gethostbyname_r()</function>. <parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <function>lwres_gethostbyaddr_r()</function>.

Successful calls to <function>lwres_gethostbyaddr_r()</function> return
<parameter>resbuf</parameter>, which is a pointer to the
<function>struct hostent()</function> it created.
</para>

</refsect1>

<refsect1>
<title>RETURN VALUES</title>
<para>
The functions
<function>lwres_gethostbyname()</function>,
<function>lwres_gethostbyname2()</function>,
<function>lwres_gethostbyaddr()</function>,
and
<function>lwres_gethostent()</function>
return NULL to indicate an error. In this case the global variable
<type>lwres_h_errno</type>
will contain one of the following error codes defined in
<filename>&lt;lwres/netdb.h&gt;</filename>:

<variablelist>
<varlistentry><term><constant>HOST_NOT_FOUND</constant></term>
</varlistentry>
<varlistentry><term><constant>TRY_AGAIN</constant></term>
</varlistentry>
<varlistentry><term><constant>NO_RECOVERY</constant></term>
</varlistentry>
<varlistentry><term><constant>NO_DATA</constant></term>
</varlistentry>

The host or address was not found.
</para>
</varlistentry>
<varlistentry><term><constant>TRY_AGAIN</constant></term>
</varlistentry>
<varlistentry><term><constant>NO_RECOVERY</constant></term>
</varlistentry>
<varlistentry><term><constant>NO_DATA</constant></term>

A recoverable error occurred, e.g., a timeout. Retrying the lookup may succeed.
</para>
</varlistentry>
<varlistentry><term><constant>NO_RECOVERY</constant></term>
</varlistentry>
<varlistentry><term><constant>NO_DATA</constant></term>

A non-recoverable error occurred.
</para>
</varlistentry>
<varlistentry><term><constant>NO_ADDRESS</constant></term>

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.
translates these error codes to suitable error messages.

Successful calls to \function{lwres_gethostbyname_r()} and \function{lwres_gethostbyaddr_r()} return \type{NULL}, a pointer to the \type{struct hostent} that was initialised by these functions. They return \type{NULL} if the lookups fail or if \parameter{buf} was too small to hold the list of addresses and names referenced by the \constant{h_name}, \constant{h_aliases}, and \constant{h_addr_list} elements of the \type{struct hostent}. If \parameter{buf} was too small, both \function{lwres_gethostbyname_r()} and \function{lwres_gethostbyaddr_r()} set the global variable \type{errno} to \errorcode{ERANGE}. 
<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>

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/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/isc/misc.h
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/ev_connects.c
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/ev_files.c
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/ev_timers.c
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/eventlib.c

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<!-- $Id: lwres_config.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->
<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>
<refmeta>
<refentrytitle>lwres_config</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_conf_init</refname>
<refname>lwres_conf_clear</refname>
<refname>lwres_conf_parse</refname>
<refname>lwres_conf_print</refname>
<refname>lwres_conf_get</refname>
<refpurpose>lightweight resolver configuration</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;
</funcsynopsis>
<funcprototype>
void
<function>lwres_conf_init</function>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcdef>
void
<function>lwres_conf_clear</function>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcdef>
<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>


prints the
structure for resolver context
to the
FILE
<parameter>fp</parameter>.
</para>
</refsect1>
</refsect1>

RETURN VALUES
<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>

SEE ALSO
<para>
<citerefentry>
<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>,
<citerefentry>
<refentrytitle>resolver</refentrytitle><manvolnum>5</manvolnum>
</citerefentry>.
</para>
</refsect1>

FILES
<para>
<filename>/etc/resolv.conf</filename>
</para>
</refsect1>
</refentry>

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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

#endif
/*****
***** 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 sockaddr 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@

@ISC_PLATFORM_HAVEIN6ADDRR6@

@ISC_PLATFORM_HAVESCOPEID@

@ISC_PLATFORM_NEEDNTOP@

@ISC_PLATFORM_NEEDPTON@

@ISC_PLATFORM_NEEDATON@

@ISC_PLATFORM_NEEDPORTT@

@ISC_PLATFORM_NEEDSTRSEP@

@ISC_PLATFORM_NEEDSTRLCPY@

@ISC_PLATFORM_NEEDSTRLCAT@
/*
 * Define either ISC_PLATFORM_BSD44MSGHDR or ISC_PLATFORM_BSD43MSGHDR.
 */
@ISC_PLATFORM_MSGHDRFLAVOR@

/*
 * Define if PTHREAD_ONCE_INIT should be surrounded by braces to
 * prevent compiler warnings (such as with gcc on Solaris 2.8).
 */
@ISC_PLATFORM_BRACEPTHREADONCEINIT@

/*
 * Define on some UnixWare systems to fix erroneous definitions of various
 * IN6_IS_ADDR_* macros.
 */
@ISC_PLATFORM_FIXIN6ISADDR@

/***
 *** Printing.
 /***/

/*
 * If this system needs vsnprintf() and snprintf(), ISC_PLATFORM_NEEDVSNPRINTF
 * will be defined.
 */
@ISC_PLATFORM_NEEDVSNPRINTF@

/*
 * If this system need a modern sprintf() that returns (int) not (char*).
 */
@ISC_PLATFORM_NEEDSPRINTF@

/*
 * The printf format string modifier to use with isc_uint64_t values.
 */
@ISC_PLATFORM_QUADFORMAT@

/*
 * Defined if we are using threads.
 */
@ISC_PLATFORM_USETHREADS@

/*
 * Defined if unistd.h does not cause fd_set to be declared.
 */
@ISC_PLATFORM_NEEDSYSSELECTH@
/*
 * 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 */
#endif
#endif /* ISC_PLATFORM_H */

/*
* Tell emacs to use C mode for this file.
*
* Local Variables:
* mode: c
* End:
*/
#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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-->

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

<refentry>
<refentryinfo>

<date>Jun 30, 2000</date>
</refentryinfo>
<refmeta>
<refentrytitle>lwres_gabn</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_gabnrequest_render</refname>
<refname>lwres_gabnresponse_render</refname>
<refname>lwres_gabnrequest_parse</refname>
<refname>lwres_gabnresponse_parse</refname>
<refname>lwres_gabnresponse_free</refname>
<refname>lwres_gabnrequest_free</refname>
<refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
#include <lwres/lwres.h>
</funcsynopsisinfo>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
These are low-level routines for creating and parsing lightweight resolver name-to-address lookup request and response messages.

There are four main functions for the getaddrbyname opcode.

One render function converts a getaddrbyname request structure —
to the lightweight resolver's canonical format.
It is complemented by a parse function that converts a packet in this
canonical format to a getaddrrbyname request structure.
Another render function converts the getaddrrbyname response structure &mdash;
<type>lwres_gabnresponse_t</type> &mdash;
to the canonical format.
This is complemented by a parse function which converts a packet in
canonical format to a getaddrrbyname response structure.
</para>
</para>
These structures are defined in
<filename>&lt;lwres/lwres.h&gt;</filename>.
They are shown below.
<programlisting>
#define LWRES_OPCODE_GETADDRSBYNAME 0x00010001U

typedef struct lwres_addr lwres_addr_t;
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;

typedef struct {
    lwres_uint32_t flags;
    lwres_uint32_t adrtypes;
    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 getaddrrbyname 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>
<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>
<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
Any memory associated with ancillary buffers and strings for those structures is also discarded.

The getaddrbyname opcode functions \texttt{lwres\_gabnrequest\_render()}, \texttt{lwres\_gabnresponse\_render()}, \texttt{lwres\_gabnrequest\_parse()}, and \texttt{lwres\_gabnresponse\_parse()} all return \texttt{LWRES\_R\_SUCCESS} on success. They return \texttt{LWRES\_R\_NOMEMORY} if memory allocation fails. \texttt{LWRES\_R\_UNEXPECTEDEND} is returned if the available space in the buffer \texttt{b} is too small to accommodate the packet header or the \texttt{lwres\_gabnrequest\_t} and \texttt{lwres\_gabnresponse\_t} structures. \texttt{lwres\_gabnrequest\_parse()} and \texttt{lwres\_gabnresponse\_parse()} will return \texttt{LWRES\_R\_UNEXPECTEDEND} if the buffer is not empty after decoding the received packet. These functions will return \texttt{LWRES\_R\_FAILURE} if \texttt{pktflags} in the packet header structure \texttt{lwres\_lwpacket\_t} indicate that the packet is not a response to an earlier query.
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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
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 .Sh STANDARDS
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/bind/isc/logging_p.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/bind/inet/nsap_addr.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/bind/resolv/res_mkupdate.c
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/diff.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/validator.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/opensslrsa_link.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/diff.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/byaddr.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/byaddr.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/validator.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/diff.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/validator.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/byaddr.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/socket.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/entropy.c
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/entropy.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/hex.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/msgs.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/getrrset.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/validator.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/lwconfig.c

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

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isccc/include/isccc/result.h
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/*
* msg_eventlib.c - Error messages for evlib
* January 2007, Vikram Visweswaraiah
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/msg_eventlib.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_buffer.3
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/cert_37.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_buffer.3
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/dbtable.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/ttl.h
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/string.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/kx_36.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/log.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/srv_33.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdatalist.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/log.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/resolver.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/tkey_249.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/print.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/nsec.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/print.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/rt_21.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/naptr_35.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/db.c
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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-etrags)

# 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])
    ])
  no)
  ;;
  esac
fi

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-grBuild ....],
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-pwBuild ....],
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-nisBuild ....],
want_irs_nis="$withval", want_irs_nis="no")
case "$want_irs_nis" in
yes)
    WANTIRS_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
  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.
# *
*-bsd3.*|*-bsd4.0*)
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(HAVE_LINUXTHREADS)
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 -thread"
    ::
    *-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="$CCOPT -std"
  MKDEPC="$CC"
  ;;
  *-hp-hpux*)
  CC="$CC -Ae -z"
  case `"$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 = "\n" $i; a[$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.])
    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")

Please choose the proper path with the following command:

    configure --with-purify=PATH

) fi
;;
 esac

AC_SUBST(PURIFY)
yes)
AM_PROC_LIBTOOL
O=lo
A=la
LIBTOOL_MKDEP_SED='s;\o;\lo;'
LIBTOOL_MODE_COMPILE='--mode=compile'
LIBTOOL_MODE_INSTALL='--mode=install'
LIBTOOL_MODE_LINK='--mode=link'
;;
*)
O=o
A=a
LIBTOOL=
AC_SUBST(LIBTOOL)
LIBTOOL_MKDEP_SED=
LIBTOOL_MODE_COMPILE=
LIBTOOL_MODE_INSTALL=
LIBTOOL_MODE_LINK=
;;
esac

#
# File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a

AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

#
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#
#
#
# IPv6
#
AC_ARG_ENABLE(ipv6,
[  --enable-ipv6		use IPv6 [default=autodetect]])

  case "$enable_ipv6" in
  yes|"


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(
  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(no)
      NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1"])

endcase
[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_NEEDINETIN6H)
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>],
    [inet_aton(0, 0, 0); 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"])

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#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="$ISC_EXTRA_OBJS inet_aton.SO"
ISC_EXTRA_SRCS="$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)IBUTE="#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 "$host" in
  *-bsd[2345]*)have_minimum_ifreq=yes;;
  *-darwin*)have_minimum_ifreq=yes;;
  *-freebsd*)have_minimum_ifreq=yes;;
  *-lynxos*)have_minimum_ifreq=yes;;
  *-netbsd*)have_minimum_ifreq=yes;;
  *-next*)have_minimum_ifreq=yes;;
  *-openbsd*)have_minimum_ifreq=yes;;
  *-rhapsody*)have_minimum_ifreq=yes;;
esac
case "$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";;
  *bsd2*) PORT_DIR="port/bsdos2";;
  *bsd*) 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"
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"
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_BIT_TYPES)
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)
AC_MSG_RESULT(no)
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"],
   [ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAIISTRERROR))
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_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 "%llld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(l)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "l"'
[AC_MSG_RESULT(ll)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"'
[AC_MSG_RESULT(default ll)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"'
])
AC_SUBST(ISC_PLATFORM_QUADFORMAT)
# Security Stuff

AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))

# for accept, recvfrom, getpeername etc.
# AC_MSG_CHECKING(for socket length type)
AC_TRY_COMPILE(
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, socklen_t *);
.),
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T socklen_t"
AC_MSG_RESULT(socklen_t)]
,
AC_TRY_COMPILE(
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned int *);
.),
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned int"
AC_MSG_RESULT(unsigned int)]
,
AC_TRY_COMPILE(
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned long *);
.),
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned long"
AC_MSG_RESULT(unsigned long)]
,
AC_TRY_COMPILE(
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, long *);
.),
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long)]
,
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T int"
AC_MSG_RESULT(int)
)))
AC_SUBST(ISC_SOCKLEN_T)

AC_CHECK_FUNC(getgrouplist,
AC_TRY_COMPILE(}
#include <unistd.h>

int
getgrouplist(const char *name, int basegid, int *groups, int *ngroups) {
}
].
[return (0);],
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int *ngroups"
.
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *ngroups"
).
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
)
AC_SUBST(GETGROUPLIST_ARGS)

AC_CHECK_FUNC(setgroupent,,AC_DEFINE(NEED_SETGROUPENT))

AC_CHECK_FUNC(getnetbyaddr_r,
AC_TRY_COMPILE(
[
  #undef _REENTRANT
  #define _REENTRANT
  #define __OSF_SOURCE
  #undef __USE_MISC
  #define __USE_MISC
  #include <netdb.h>
  struct netent *
  getnetbyaddr_r(long net, int type, struct netent *result, char *buffer, int buflen) {}
],
[return (0)],
[
  NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
  NET_R_BAD="#define NET_R_BAD NULL"
  NET_R_COPY="#define NET_R_COPY buf, buflen"
  NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
  NET_R_OK="#define NET_R_OK nptr"
  NET_R_SETANSWER="#undef NET_R_SETANSWER"
  NET_R_RETURN="#define NET_R_RETURN struct netent *"
  GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
  NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
  #undef _REENTRANT
]
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>

int getnetbyaddr_r (unsigned long int, int, struct netent *,
    char *, size_t, struct netent **, int *);
],
[return (0)],
[

NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errno"
NET_R_BAD="#define NET_R_BAD ERANGE"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS char *buf, size_t buflen"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#define 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="#define 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_END_ARGS="#undef NET_R_END_ARGS /*empty*/"
.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_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 *);
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) return (x)"
NET_R_END_RETURN="#define NET_R_END_RETURN int"
],

AC_SUBST(NET_R_END_RESULT)
AC_SUBST(NET_R_END_RETURN)

AC_CHECK_FUNC(getgrent_r, AC_DEFINE(NEED_GETGRENT_R))
AC_CHECK_FUNC(getgrgid_r, AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrnam_r, AC_DEFINE(NEED_GETGRNAM_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_GETGRENTER_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_errno = 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"
]
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"
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
 *bsd*)
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_INETGR_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);]
, [return (0);]
, [return (0);]
, [return (0);]
, [return (0);]
, [return (0);]
, [return (0);]
, [return (0);]
, [return (0);]

[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);]
, [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 PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK 0"
]
PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="#define PROTO_R_RETURN int"
"
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"
]
,)
)

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(setpwent_r,,AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpwent,,ACDEFINE(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"
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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 SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK 0 sptr"
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);
]
]
```

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

  esac

  case "$hack_shutup_pthreadonceinit" in
    yes)
      #
      # Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.
      #
      ISC_PLATFORM_BRACEPTHREADONCEINIT="#define ISC_PLATFORM_BRACEPTHREADONCEINIT 1"
      ;;
    esac

  case "$hack_shutup_sigwait" in
    yes)
      #
      # Shut up a -Wmissing-prototypes warning for sigwait().
      #
      AC_DEFINE(SHUTUP_SIGWAIT)
      ;;
    esac

  case "$hack_shutup_sputaux" in
    yes)
      #
      # Shut up a -Wmissing-prototypes warning from <stdio.h>.
      #
      AC_DEFINE(SHUTUP_SPUTAUX)
      ;;
    esac

  case "$hack_shutup_stdargcast" in
    yes)
# Shut up a -Wcast-qual warning from va_start().

#
AC_DEFINE(SHUTUP_STDARG_CAST)
;;
esac

case "$hack_shutup_in6addr_init_macros" in
  yes)
AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
;;
esac

# Substitutions
#
AC_SUBST(BIND9_TOP_BUILDDIR)
BIND9_TOP_BUILDDIR=`pwd`

AC_SUBST_FILE(BIND9_INCLUDES)
BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)
BIND9_MAKE_RULES=$BIND9_TOP_BUILDDIR/make/rules

. $srcdir/../../version
BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELEASEVER}"
AC_SUBST(BIND9_VERSION)

AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api

AC_OUTPUT(
  make/rules
  make/mkdep
  make/includes
  Makefile
  bsd/Makefile
  dst/Makefile
  include/Makefile
  inet/Makefile
  irs/Makefile
  isc/Makefile
  nameser/Makefile
  port_after.h
  port_before.h
  resolv/Makefile

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port/Makefile
${PORT_DIR}/Makefile
${PORT_INCLUDE}/Makefile

# Tell Emacs to edit this file in shell mode.
# Local Variables:
# mode: sh
# End:

Found in path(s):
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/configure.in
No license file was found, but licenses were detected in source scan.

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 */

Found in path(s):
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getpwent_r.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getprotoent_r.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gethostent_r.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getnetgrent_r.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getservent_r.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getgrent_r.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getnetent_r.c
No license file was found, but licenses were detected in source scan.

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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
* abcdedcdedefedfghghighhijhijklknmlmmonnopnopq"
* 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1
* A million repetitions of "a"
* 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F
*/

Found in path(s):
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/sha1.c
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* PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/netscope.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isccfg/include/isccfg/namedconf.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/order.h
No license file was found, but licenses were detected in source scan.
If the operating system does not provide a `struct addrinfo` type, the following structure is used:

```
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 */
};
``
<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>
<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><term><constant>ai_socktype</constant></term>
  <listitem>
    <para>denotes the type of socket &mdash;</para>
  </listitem>
</variablelist>
<type>SOCK_STREAM</type>,
<type>SOCK_DGRAM</type>
or
<type>SOCK_RAW</type>
&mdash; that is wanted.
When
<constant>ai_socktype</constant>
is zero the caller will accept any socket type.
</para>
</listitem>
</varlistentry>

<varlistentry><term><constant>ai_protocol</constant></term>

<listitem>
<para>
indicates which transport protocol is wanted: IPPROTO_UDP or
IPPROTO_TCP.
If
<constant>ai_protocol</constant>
is zero the caller will accept any protocol.
</para>
</listitem>
</varlistentry>

<varlistentry><term><constant>ai_flags</constant></term>

<listitem>
<para>
Flag bits.
If the
<type>AI_CANONNAME</type>
bit is set, a successful call to
<function>lwres_getaddrinfo()</function>
will return a null-terminated string containing the canonical name
of the specified hostname in
<constant>ai_canonname</constant>
of the first
<type>addrinfo</type>
structure returned.
Setting the
<type>AI_PASSIVE</type>
bit indicates that the returned socket address structure is intended
for used in a call to
<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.
</para>
</listitem>
</varlistentry>

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
<para>
<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>,
<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.

All other elements of the <type>struct addrinfo</type> passed via <parameter>hints</parameter> must be zero.

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>.

After a successful call to <function>lwres_getaddrinfo()</function>, <parameter>*res</parameter> is a pointer to a linked list of one or more <type>addrinfo</type> structures. Each <type>struct addrinfo</type> in this list can be processed by following the <constant>ai_next</constant> pointer, until a <type>NULL</type> pointer is encountered. The three members <constant>ai_family</constant>, <constant>ai_socktype</constant>, and <constant>ai_protocol</constant> in each returned <type>addrinfo</type> structure contain the corresponding arguments for a call to <citerefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>. For each
<para>
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>
<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>
</refentrytitle>
</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>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>
<citerefentry>
<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</citefentry>
<citerefentry>
<refentrytitle>lwres_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</citefentry>
<citerefentry>
<refentrytitle>lwres_gai_strerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</citefentry>
<citerefentry>
<refentrytitle>RFC2133</refentrytitle>
</citerefentry>.
<citerefentry>
<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</citefentry>
<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.
</citefentry>
<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.
</citefentry>
<citerefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.
</citefentry>
<citerefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.
</citefentry>
<citerefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_getaddrinfo.docbook

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/syslog.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind9/getaddresses.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/strerror.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@ \
-@BIND9_ISC_BUILDINCLUDE@/lib/isc \ 
-@BIND9_ISC_BUILDINCLUDE@/lib/isc/include \ 
-@BIND9_ISC_BUILDINCLUDE@/lib/isc/unix/include \ 
-@BIND9_ISC_BUILDINCLUDE@/lib/isc/@ISC_THREAD_DIR@/include

ISCCFG_INCLUDES = @BIND9_ISCCFG_BUILDINCLUDE@ \
-@BIND9_ISCCFG_BUILDINCLUDE@/lib/isccfg/include

DNS_INCLUDES = @BIND9_DNS_BUILDINCLUDE@ \
-@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@ \n-I${top_srcdir}/lib/lwres/include

TEST_INCLUDES = \
-I${top_srcdir}/lib/tests/include

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/rrsig_46.c
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/stat.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/unix/ifiter_getifaddrs.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/unix/dnskey_48.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/stdlib.h
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; $Id: bindevt.mc,v 1.1 2004/11/03 01:39:06 abstine Exp $

MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)

OutputBase = 16

MessageId=0x1
Severity=Error
Facility=Application
SymbolicName=BIND_ERR_MSG
Language=English
%1
.

MessageId=0x2
Severity=Warning
Facility=Application
SymbolicName=BIND_WARN_MSG
Language=English
%1
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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
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* - Ian Jackson <ijackson@nyx.cs.du.edu>.
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/lcl_ho.c
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</refentry>
lwres_result_t 
<function>lwres_context_create</function>()
<paramdef>lwres_context_t **contextp</paramdef>
<paramdef>void *arg</paramdef>
<paramdef>lwres_malloc_t malloc_function</paramdef>
<paramdef>lwres_free_t free_function</paramdef>

lwres_result_t 
<function>lwres_context_destroy</function>()
<paramdef>lwres_context_t **contextp</paramdef>

void 
<function>lwres_context_initserial</function>()
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t serial</paramdef>

lwres_uint32_t 
<function>lwres_context_nextserial</function>()
<paramdef>lwres_context_t *ctx</paramdef>

void 
<function>lwres_context_freemem</function>()
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>void *mem</paramdef>
<paramdef>size_t len</paramdef>
**DESCRIPTION**

`lwres_context_create()` creates a `lwres_context_t` structure for use in lightweight resolver operations. It holds a socket and other data needed for communicating with a resolver daemon. The new `lwres_context_t` is returned through a pointer to a `lwres_context_t` pointer. This pointer must initially be NULL, and is modified to point to the newly created `lwres_context_t`.

When the lightweight resolver needs to perform dynamic memory allocation, it will call `malloc_function` to allocate memory and
to free it. If
and
are NULL, memory is allocated using
and
are NULL, memory is allocated using
and
or vice versa.
<para>arg</para>
is passed as the first parameter to the memory allocation functions.
If
and
are NULL,
<para>arg</para>
is unused and should be passed as NULL.
<para>
Once memory for the structure has been allocated, it is initialized using
<function>lwres_conf_init</function>
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.

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.

Memory for a lightweight resolver context is allocated and freed using <function>lwres_contextAllocmem()</function> and <function>lwres_contextFreemem()</function>. These use whatever allocations were defined when the context was created with <function>lwres_contextCreate()</function>. <function>lwres_contextAllocmem()</function> allocates <parameter>len</parameter> bytes of memory and if successful returns a pointer to the allocated storage. <function>lwres_contextFreemem()</function> frees <parameter>len</parameter> bytes of space starting at location <parameter>mem</parameter>.

<function>lwres_contextSendrecv()</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>.
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— 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>,
</para>
</refsect1>
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/dst/dst_internal.h
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*/
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/libisc/symtab.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/libisc/inet_ntop.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/libisc/include/isc/symtab.h

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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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lwres_result_t lwres_string_parse(lwres_buffer_t *b, char **c, lwres_uint16_t *len);

lwres_result_t lwres_addr_parse(lwres_buffer_t *b, lwres_addr_t *addr);

lwres_result_t lwres_getaddrsbyname(lwres_context_t *ctx, const char *name, lwres_uint32_t addrtypes, lwres_gabnresponse_t **structp);

lwres_result_t lwres_getnamebyaddr(lwres_context_t *ctx, lwres_uint32_t addrtype, lwres_uint16_t addrlen);
<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-&gt;current</constant>. When the function returns, the address of the first byte of the encoded string is returned via <parameter>*c</parameter> and the length of that string is given by <parameter>*len</parameter>. The buffer's current pointer is advanced to point at the character following the string length, the encoded string, and the trailing <type>NULL</type> character.
</para>

<para>
<function>lwres_addr_parse()</function> extracts an address from the buffer <parameter>b</parameter>. The buffer's current pointer <constant>b-&gt;current</constant> is presumed to point at an encoded address: the address preceded by a 32-bit protocol family identifier and a 16-bit length field. The encoded address is copied to <constant>addr-&gt;address</constant> and <constant>addr-&gt;length</constant> indicates the size in bytes of the address that was copied. <constant>b-&gt;current</constant> is advanced to point at the next byte of available data in the buffer following the encoded address.
</para>

<para>
<function>lwres_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_gnbaresponse_t;
</programlisting>

The contents of this structure are not manipulated directly but they are controlled through the
\cite{lwres_gabn}
\manvolnum{3}
\citeend{functions}.

\para
The lightweight resolver uses \function{lwres_getaddrsbyname()} to perform forward lookups. Hostname \parameter{name} is looked up using the resolver context \parameter{ctx} for memory allocation. \parameter{addrtypes} is a bitmask indicating which type of addresses are to be looked up. Current values for this bitmask are \type{LWRES_ADDRTYPE_V4} for IPv4 addresses and \type{LWRES_ADDRTYPE_V6} for IPv6 addresses. Results of the lookup are returned in \parameter{*structp}.

\para
\function{lwres_getnamebyaddr()} performs reverse lookups. Resolver context \parameter{ctx} is used for memory allocation. The address type is indicated by \parameter{addrtype}: \type{LWRES_ADDRTYPE_V4} or \type{LWRES_ADDRTYPE_V6}. The address to be looked up is given by \parameter{addr} and its length is \parameter{addrlen} bytes. The result of the function call is made available through \parameter{*structp}.

\refsectend{RETURN VALUES}

Successful calls to \function{lwres_string_parse()} and \function{lwres_addr_parse()} return
Both functions return\n<errorcode>LWRES_R_SUCCESS</errorcode> on success and it returns\n<errorcode>LWRES_R_NOTFOUND</errorcode> if the hostname\n<parameter>name</parameter> could not be found.
</para>
</para>
<errorcode>LWRES_R_SUCCESS</errorcode> is returned by a successful call to\n<function>lwres_getnamebyaddr()</function>.
</para>

Both\n<function>lwres_getaddrsbyname()</function> and\n<function>lwres_getnamebyaddr()</function> return\n<errorcode>LWRES_R_NOMEMORY</errorcode> when memory allocation requests fail and\n<errorcode>LWRES_R_UNEXPECTEDEDEND</errorcode> if the buffers used for sending queries and receiving replies are too small.
</para>

<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_buffer</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
</refsect1>
<citerefentry>
<refentrytitle>lwres_gabn</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
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 * BINOS specific changes to associate memcluster with an evctx
 *
 * March 2014, Aswin Kuppusami
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/lcl_gr.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>
#include &lt;lwres/netdb.h&gt;
</funcsynopsisinfo>

<funcprototype>
struct hostent *
function>lwres_getipnodebyname</function>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
<paramdef>int flags</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>

<funcprototype>
struct hostent *
function>lwres_getipnodebyaddr</function>
<paramdef>const void *src</paramdef>
<paramdef>size_t len</paramdef>
<paramdef>int af</paramdef>

</funcprototype>
These functions perform thread safe, protocol independent
donename-to-address and address-to-nodename
translation as defined in RFC2553.

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>

The members of this structure are:
<variablelist>
<varlistentry><term><constant>h_name</constant></term>
</listitem>
<para>
The official (canonical) name of the host.
</para>
</varlistentry>
<listitem>
<varlistentry><term><constant>h_aliases</constant></term>
</listitem>
A NULL-terminated array of alternate names (nicknames) for the host.

The type of address being returned - usually a network byte order.

A NULL-terminated array of network addresses for the host. Host addresses are returned in network byte order.

Looks up addresses of protocol family for the hostname.

The flags 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:
This is used with an
<parameter>af</parameter>
of AF_INET6, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.

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 returned as mapped IPv6 addresses.

Only return an IPv6 or IPv4 address if there is an active network interface of that type. This is not currently implemented in the BIND 9 lightweight resolver, and the flag is ignored.

This default sets the
<constant>AI_V4MAPPED</constant>
and
<constant>AI_ADDRCONFIG</constant>
flag bits.

<function>lwres_getnodebyaddr()</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>
<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>
<title>RETURN VALUES</title>
<para> If an error occurs, <function>lwres_getipnodebyname()</function> and <function>lwres_getipnodebyaddr()</function> set <parameter>*error_num</parameter> to an appropriate error code and the function returns a <type>NULL</type> pointer. The error codes and their meanings are defined in <filename>&lt;lwres/netdb.h&gt;</filename>:
</para>
</refsect1>

<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
Another type of request to the name server for the domain might return an answer.

A temporary and possibly transient error occurred, such as a failure of a server to respond. The request may succeed if retried.

An unexpected failure occurred, and retrying the request is pointless.

translates these error codes to suitable error messages.

SEE ALSO

RFC2553,

lwres_hstrerror lwres_gethostent lwres_getaddrinfo,
Found in path(s):
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_getipnode.docbook

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/irp_ho.c

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" $Id: lwres_packet.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/message.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/zone.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/ncache.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/adb.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/cache.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/dispatch.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/view.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/nxt_30.c
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/types.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/tkey_249.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rbt.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/loc_29.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/message.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/app.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/net.c
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/db.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/getipnode.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/dispatch.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/xfrin.c
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/zone.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/key_25.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdataslab.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/filter_sysctl.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/any_255/tsig_250.c
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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_NEEDINETINET6H@

/*
 * Define if this system needs the <netinet6/in6.h> header file for IPv6.
 */
@LWRES_PLATFORM_NEEDINET6IN6H@

/*
 * If sockaddrs on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN
 * will be defined.
 */
@LWRES_PLATFORM_HAVESALEN@

/*
 * If this system has the IPv6 structure definitions, LWRES_PLATFORM_HAVEIPV6
 * will be defined.
 */
@LWRES_PLATFORM_HAVEIPV6@

/*
 * If this system is missing in6addr_any, LWRES_PLATFORM_NEEDIN6ADDRANY will
 * be defined.
 */
@LWRES_PLATFORM_NEEDIN6ADDRANY@

/*
 * If this system is missing in6addr_loopback,
 * LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
 */
@LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
 * If this system has in_addr6, rather than in6_addr,
 * LWRES_PLATFORM_HAVEINADDR6 will be defined.
 */
@LWRES_PLATFORM_HAVEINADDR6@

/*
 * Defined if unistd.h does not cause fd_set to be declared.
 */
@LWRES_PLATFORM_NEEDSYSSELECTH@
/*
 * Used to control how extern data is linked; needed for Win32 platforms.
 */
@LWRES_PLATFORM_USEDECLSPEC@

/*
 * Defined this system needs vsnprintf() and snprintf() .
 */
@LWRES_PLATFORM_NEEDVSNPRINTF@

/*
 * If this system need a modern sprintf() that returns (int) not (char*).
 */
@LWRES_PLATFORM_NEEDSPRINTF@

#ifndef LWRES_PLATFORM_USEDECLSPEC
#define LIBLWRES_EXTERNAL_DATA
#else
#ifdef LIBLWRES_EXPORTS
#define LIBLWRES_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBLWRES_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif
#endif /* LWRES_PLATFORM_H */

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Found in path(s):
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/request.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/gssapi_link.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/unix/include/lwres/net.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isccfg/include/isccfg/cfg.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/pthreads/mutex.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/errno2result.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/entropy.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/os.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/file.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/lwres_gnba.c

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/*
 * eventlib.em
 *
 * Eventlib error message compiler input file
 *
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 */

/*
 * The file basename is the facility name, the name is made
 * uppercase. This file defines facility EVENTLIB
 */
module {
    description "EVENTLIB system messages";
}

ermsg HISTSUMM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
    arg {
        "int" dispatch_time "event dispatch time";
}
"int" elapsed_time "event elapsed time";
"int" hog_detected "event hog detected";
"int" set_count "event set count since dispatch"
}

explanation
"Eventlib historical summary for detected hog."

action
"This event summary is part of a CPUHOG or TIMEHOG error,
"providing diagnostic details useful to engineering."
"Save this summary message along with the HOG error."

tac_details
"Eventlib historical summary for detected hog."
}

errmsg HISTELEM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "elem[%u] event: %s %s set: %llums unset: %llums hog check: %d caller: %p app-info: %s";

    arg {
        "int" set_count "element set count";
        "char *" position_string "event call type";
        "char *" position_string "event condition";
        "int" set_time "element set time";
        "int" unset_time "element unset time";
        "int" hog_check "element hog check result";
        "int" caller "caller builtin return address";
        "char *" any_string "element callback render buffer";
    }

    explanation
"Eventlib historical element for detected hog."

    action
"This event element is part of a CPUHOG or TIMEHOG error,
"providing diagnostic details useful to engineering."
"Save all element messages along with the HOG error."

tac_details
"Eventlib historical element for detected hog."
}

Found in path(s):
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/eventlib.em
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/*----------------------------------------------------------
 * eventlib definitions specific to binos
 *
 * January 2007, Vikram Visweswaraiah
 *
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 *----------------------------------------------------------
 */

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

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/resolv/res_comp.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/resolv/res_mkquery.c

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/nameser/ns_samedomain.c

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/soa.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/forward.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/os.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/timer_p.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/hmacmd5.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/resource.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/rdatalist_p.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/timer.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/grbn.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/gai_strerror.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/file.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/int.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/fsaccess.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/iscforward.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/win32/include/lwres/int.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/errno2result.h
*/
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/platform.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/win32/DLLMain.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/config/win32/DLLMain.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/ntpaths.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/isc/ntgroups.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/version.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind9/include/bind9/check.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/strerror.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscc/win32/DLLMain.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind9/win32/DLLMain.c

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/nameser/ns_date.c
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/irp.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/resolv/res_debug.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/sco42/include/sys/un.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/isc/irpmarshall.h

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/time.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/result.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/task.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/result.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/time.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/base64.c

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  -->
  
  <!-- $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>
            #include &lt;lwres/netdb.h&gt;
          </funcsynopsis>
          <funcprototype>
            int
            <function>lwres_getrrsetbyname</function>
            <paramdef>const char *hostname</paramdef>
            <paramdef>unsigned int rdclass</paramdef>
            <paramdef>unsigned int rdtype</paramdef>
          </funcprototype>
        </refsynopsisdiv>
      </refentryinfo>
    </refentryinfo>
  </refentry>
The following structures are used:

```c
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 */
};
```

The function `lwres_getrrsetbyname()` gets a set of resource records associated with a `hostname`, `class`, and `type`. `hostname` is
After a successful call to
<function>lwres_getrsetbyname()</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.

All of the information returned by
<function>lwres_getrsetbyname()</function>
is dynamically allocated: the
<constant>rsetinfo</constant>
and
<constant>rdatainfo</constant>
structures,
and the canonical host name strings pointed to by the
<constant>rsetinfo</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>
1.2 device-mapper-libs 1.02.175

1.2.1 Available under license:

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the version number 2.1.]

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1.12 libsepol 2.9

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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/
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1.14 acl 2.2.53

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  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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  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>
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1.30 python-pip 9.0.3
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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.

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

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

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(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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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TERMS AND CONDITIONS

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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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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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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.

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1.33 gzip 1.10 r0

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1.35 pcre 8.42

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*
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1.40 xinetd 2.3.15.4 r0

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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1.51 remote-lib-genmc 2.2.0

1.51.1 Available under license :
No license file was found, but licenses were detected in source scan.

/*
 * octeon_pci_dmap.c
 * Provide APIs for read/write into Cavium Octeon memory by an
 * external host
 *
 * March 2011, Vineet Sahijwani
 * Based on octeon-remote-pci.c provided in Cavium SDK
 *
 * All rights reserved.
 */

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

license: 'Cavium Commercial & Cisco Proprietary'

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

/*
 * This file contains Octeon CN6300 APIs prototype.
 *
 * March 2011, Nidhi Shah (nidshah@cisco.com)
 *
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 *
 */

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

/*
 *---------------------------------------------------------------
 * octeon_gige.h
 * This file contains prototypes/definitions used by front panel driver
 * for programming the Cavium and MArvell PHY.
 *
 * March 2012, ovld-sw-io-infra-dev@cisco.com
 *
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 *---------------------------------------------------------------
 *
 */

Found in path(s):
* /opt/cola/permits/1267363789_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon_gige.h
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include $(NxBUILD_DIR)/Makefile-crankshaft.binos

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

/*
 *---------------------------------------------------------------
 * octeon_ldr_api.c
 */
* This file contains the Cisco APIs for LDR of ffp client.
*
* It is based on oct-remote-boot.c provided by Cavium.
* May 2011, Nidhi Shah (nidshah@cisco.com)
*
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267363789_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon_ldr_api.c
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/*
* This file contains Octeon CN6300 APIs prototype.
*
* March 2011, Nidhi Shah (nidshah@cisco.com)
*
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*
*/

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

#
# Makefile for Octeon Remote API library
#
# July 2010, Max Lou (mlou@cisco.com)
# March 2011, Nidhi Shah (nidshah@cisco.com)
# Based on drivers/kernel/octSDK/host/remote-lib-mcp/Makefile.binos
#
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#
# NOTE:
# (1) octeon-remote-mips-bin.c : This file has been generated from
#  mips-octeon_debug_handler.S using following steps:
#  (1.1) mips-octeon_remote_debug_handler.o <--
#  mips64-octeon-linux-gnu-gcc -W -Wall -o mips-octeon_remote_debug_handler.o -c mips-octeon_debug_handler.S
#  (1.2) mips-octeon_remote_debug_handler.bin <--
#  mips64-octeon-linux-gnu-objcopy -j .text -O binary mips-octeon_remote_debug_handler.o

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

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

(3) List of cavium provided files changed by MCP: ../../bootloader/u-boot/lib_mips/lib_octeon_shared.c, ../remote-lib/octeon-remote-debug-handler.c

include make-env.mk
include variables.mk

$(Nx)GEN_CFG_DIR := $(($ (Nx)BUILD_DIR)/$(PFX_COMP_BUILD))$(Tx)
$(Nx)GEN_CFG_SENTINEL := $(($ (Nx)GEN_CFG_DIR))/config_sentinel

define $(Nx)config_TEMPLATE
.PHONY: $(Px)all$(Plx)
$(Px)all$(Plx): $(($ (Nx)GEN_CFG_SENTINEL)
 $(($ (Nx)GEN_CFG_SENTINEL): \n | $(call mkdir_prereq,$($ (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
ifeq ($(filter $(ARM32_ALL_TARGETS),$(TARGET)),)
$(Nx)LIB_SRC_DIR := ..
$(Nx)LIB_C_SRC   :=
else
$(Nx)LIB_SRC_DIR := .
$(Nx)LIB_C_SRC   := \n octeon-remote-mips-bin.c \n octeon_remote_dyno_api.c \n octeon_pci_dmap.c \n octeon_ldr_api.c \n octeon_gige.c \n ../../../bootloader/u-boot/include/configs $$(@D)/configs
$(TOUCH) $$@
endef
$(eval $(call $(Nx)config TEMPLATE))

$(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

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 \\

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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
  *
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  *------------------------------------------------------------------
  */

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

/*
  *------------------------------------------------------------------
  * octeon_pci_dmap_priv.h
  *
  * April 2011, Vineet Sahijwani
  *
  * Copyright (c) 2011-2012, 2017 by cisco Systems, Inc.
  * All rights reserved.
  *------------------------------------------------------------------
  */

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

/*
  *------------------------------------------------------------------
  * octeon_gige.c
  * This file contains routines that are used by the front panel Gige
  * driver running in the control plane. Miscellaneous routines to program
  * the Cavium CN66 and SMI based access to Marvell PHY
  *
  * March 2012, ovld-sw-io-infra-dev@cisco.com
  */
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*--------------------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267363789_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon_gige.c
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/*
* 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.
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*--------------------------------------------------------------------------------
*/

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

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

Found in path(s):
* /opt/cola/permits/1267363789_1647487262.14/0/remote-lib-genmc-2-2-0-tar-gz/remote-lib-genmc/octeon_remote_dyno_api.c

1.52 gmp 6.1.2
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1.61 multidict 5.0.0 r0

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1.63 jsonpointer 2.0 r0

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1.65 pycparser 2.20

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pycparser -- A C parser in Python

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Written by: Philip Hazel
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1.71 libtool 2.4.6 r0

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

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

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

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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Ty Coon, President of Vice

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

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

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

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

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

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

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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.)

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

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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
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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
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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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.)

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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
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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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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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Protocol Buffers for Go with Gadgets

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

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package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }{
        // Errors
        {
            formatter.Context{Format: "{{InvalidFunction}}"},
            "Template parsing error: template: .1: function "InvalidFunction" not defined",
        },
        {
            formatter.Context{Format: "{{nil}}"},
            "Template parsing error: template: .1:2: executing "" at <nil>: nil is not a command",
        },
        // Table format
        {
            formatter.Context{Format: NewSubscriptionsFormat("table", false)},
            "NUM OWNER PRODUCT ID EXPIRES PRICING COMPONENTS
1 owner1 productid1 2020-01-01 10:00:00 +0000 UTC compstring
2 owner2 productid2 2020-01-01 10:00:00 +0000 UTC compstring",
        },
        {
            formatter.Context{Format: NewSubscriptionsFormat("table", true)},
            "NUM OWNER PRODUCT ID EXPIRES PRICING COMPONENTS
1 License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2 License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01",
        },
        {
            formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
            "OWNER
owner1
owner2",
        },
        {
            formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
            "OWNER
owner1
owner2",
        },
    }
}
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
  subscriptions := []licenseutils.LicenseDisplay{
    {
      Num:   1,
      Owner: "owner1",
      Subscription: model.Subscription{
        ID:        "id1",
        Name:      "name1",
        ProductID: "productid1",
        Expires:   &expiration,
        PricingComponents: model.PricingComponents{
          &model.SubscriptionPricingComponent{
            Name:  "nodes",
            Value: 10,
          },
        },
      },
    },
  },

// Raw Format
{
  `license: id1
  name: name1
  owner: owner1
  components: compstring

  license: id2
  name: name2
  owner: owner2
  components: compstring

  `,
},

// Custom Format
{
  formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
  `owner1
  owner2
  `,
},

// Raw Format
{
  formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
  `license: id1
  license: id2
  `,
},

Expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
ComponentsString: "compstring",
},
{
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
}
,
,
,
ComponentsString: "compstring",
},
}
out := &bytes.Buffer{ }
testcase.context.Output = out
er := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
    assert.Error(t, err, testcase.expected)
} else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) { 
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := []licenseutils.LicenseDisplay{
{
Num: 1,
Owner: "owner1",
Subscription: model.Subscription{
ID: "id1",
Name: "name1",
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 10,
ComponentsString: "compstring",

{} Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
},
},
ComponentsString: "compstring".
},
}

expectedJSONs := []map[string]interface{}{
{
"Owner": "owner1",
ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id1",
"Start": nil,
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(10),
},
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1
Quantity: 10 nodes
Expiration date: 2020-01-01",
},
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
"Start": nil,
"Name": "name2",
"Num": float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01",
},
}

out := &bytes.Buffer{
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
    t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}

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package engine

import (
    "time"
    "github.com/docker/cli/cli/command(formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (
    defaultSubscriptionsTableFormat = "table
{{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
)

numHeader               = "NUM"
ownerHeader             = "OWNER"
licenseNameHeader       = "NAME"
idHeader                = "ID"
dockerIDHeader          = "DOCKER ID"
productIDHeader         = "PRODUCT ID"
productRatePlanHeader   = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader             = "START"
expiresHeader           = "EXPIRES"
stateHeader             = "STATE"
eusaHeader              = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`.
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{}
    licenseCtx.Header = map[string]string{
        "Num":               numHeader,
        "Owner":             ownerHeader,
        "Name":              licenseNameHeader,
        "ID":                idHeader,
        "DockerID":          dockerIDHeader,
        "ProductID":         productIDHeader,
        "ProductRatePlan":   productRatePlanHeader,
        "ProductRatePlanID": productRatePlanIDHeader,
        "Start":             startHeader,
        "Expires":           expiresHeader,
        "State":             stateHeader,
        "Eusa":              eusaHeader,
        "ComponentsString":  pricingComponentsHeader,
    }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {

return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
// Dereference the pricing component pointers in the pricing components
// so it can be rendered properly with the template formatter

var ret []model.SubscriptionPricingComponent
for _, spc := range c.l.PricingComponents {
    if spc == nil {
        continue
    }
    ret = append(ret, *spc)
}
return ret

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package licensing

import {
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"
}

go get "github.com/docker/libtrust"
go get "github.com/docker/licensing/lib/errors"
go get "github.com/docker/licensing/lib/go-clientlib"
go get "github.com/docker/licensing/model"

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)
    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }
    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey
    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }
    // ...
// TODO: Mason - replace this parseJWS with a non libtrust lib
signature, err := libtrust.ParseJWS(authorization)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := &model.CheckResponse
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": keyID,
        })
    }
}
generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}

if !hmac.Equal(tokenBytes, generatedBytes) {
    return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}

return nil

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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import "time"

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//
type CheckResponse struct {
    Expiration time.Time `json:"expiration"
    Token string `json:"token"
    MaxEngines int `json:"maxEngines"
    ScanningEnabled bool `json:"scanningEnabled"
    Type string `json:"licenseType"
    Tier string `json:"tier"
}

// IssuedLicense represents an issued license
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type IssuedLicense struct {
    KeyID string `json:"key_id"
    PrivateKey string `json:"private_key"
    Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {

if l.KeyID == "" {
  return false, "empty key_id"
}

if l.PrivateKey == "" {
  return false, "empty private_key"
}

if l.Authorization == "" {
  return false, "empty authorization"
}

return true, ""
}

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 *
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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__ */
}@

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 * pw_defs.h
 *
 * Password defines.
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/*
 * pw.h
 *
 * Password routines, adopted from IOX
 *
 * May 2000 Mark Eklund
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 *
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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.c
 *
 * AAA password routines, adopted from IOX
 *
 * January 2005, Naiming Shen
 * July 2005, Craig MacFarlane
 *
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 */

* pw.c -- password encryption/decryption routines
1.96 gobject-introspection 1.64.1 r0

1.96.1 Available under license:

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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
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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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.

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

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

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

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

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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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gobject-introspection has two licenses; one for the typelib library, and one for the tools.

* The typelib libraries (girepository/) are licensed under the LGPLv2+.
  See the file COPYING.LGPL.

* The remaining code is GPLv2+ compatible (see the file COPYING.GPL) and consists of a mix of GPLv2+, LGPLv2+ and MIT. See the license headers in each file for details.

In general where applicable files should have headers denoting their license status; if they do not, please file a bug at https://gitlab.gnome.org/GNOME/gobject-introspection/issues.

1.97 traceroute 2.1.0 r0
1.97.1 Available under license:

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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a) The modified work must itself be a software 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.

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

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

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

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

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

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

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

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

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   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

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

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under
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1.100 libyaml 0.1.7

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1.102 iptables-libs 1.8.4

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nde of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Curtis Maloney
Vladimir Didenko
1.105 pnp 3.0.0.dev2 r0

1.105.1 Available under license:

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):
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp.egg-info/PKG-INFO
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/PKG-INFO
No license file was found, but licenses were detected in source scan.

license='Cisco Proprietary',

Found in path(s):
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/setup.py
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Found in path(s):
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/security.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/xml/xmlparser.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/sudi.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/mechanisms/dhcp_discovery.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/utils/timer.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/script_exec.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/redirection.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/device_auth.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/certificate_install.py

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

[bdist_rpm]
release = 1
packager = Network Plug-n-Play <pnp-dev@cisco.com>
doc_files = README.rst
no-autoreq = 1
post-install = pnp/data/cfg/post_install_rpm.sh
rpm-base = ./rpmbuild
binary-only = 1
description = Plug-n-Play Agent for Cisco Network-PnP
keep-temp = 1

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/setup.cfg

1.106 libarchive 3.3.3
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1.107 libroxml 2.3.0 r0

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1.108 sfdisk 2.25.2 r0

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

-------------------
Create 1st primary partition
ada64ace122978d00d1d1e5ee45d26 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>  

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Id</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;removed&gt;1</td>
<td>2048</td>
<td>4095</td>
<td>2048</td>
<td>1M</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
</tbody>
</table>

---layout--------  
Create 2nd primary partition  
1bebf87248e05d66e4e62b749da65d023 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>  

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<th>Start</th>
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<td>Linux</td>
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<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>a5 FreeBSD</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---layout--------  
Create default BSD  
2e1cee529cb59e9341afe0443f196a1 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

<table>
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<tr>
<th>Slice</th>
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<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
</table>
Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

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

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<th>Start</th>
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<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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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1.122 libssh-config 0.9.4

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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.

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
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1.123 dpdk 20.11.3

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,
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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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[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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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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

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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.

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1.125 libcap 2.43 r0

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Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) 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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1.130 networkx 2.5 r0

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c92bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

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* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
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Steve Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)
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.

```xml
<!DOCTYPE html>
<html>
<head></head>
<body>
<h3>Copyright Test</h3>
<p class="copyright">1963, 1964, 1965 Jane Doe</p>
</body>
</html>
```
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=======

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1.133 attr 2.4.48 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
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1.144 coreutils 8.30

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-------------------------------------------------------------------------

1.147 shadow 4.8.1 r0

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The End

1.150 attr 2.4.48

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Ty Coon, President of Vice

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//http-parser
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If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
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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 intentionally leaving anyone out.

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

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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
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1.170 libtirpc 1.2.6 r0

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1.171 curl 7.72.0 r0

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

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## libssh2

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### 1.172 pyserial 3.4 r0

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1.174 gnutls 3.6.14 r0

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1.178 ncurses 6.2 r0

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

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1.180 libaio 0.3.111 r0

1.181 click 7.1.2 r0
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* /opt/cola/permits/1308206668_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/parser.py
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1308206668_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/_compat.py
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* /opt/cola/permits/1308206668_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/LICENSE.rst
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import io
import re

from setuptools import find_packages
from setuptools import setup
with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

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

setup(
    name="click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls=
    {
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD-3-Clause",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    packages=find_packages("src"),
    package_dir={'': "src"},
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 3",
    ],
)

Found in path(s):
* /opt/cola/permits/1308206668_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/setup.py

1.182 libverto 0.3.0

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1.183 libcomps 0.1.11

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a
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Protocol Buffers for Go with Gadgets

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

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

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1.193 python-setuptools 39.2.0

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1.197 lxml 4.6.1 r0
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1.198 file-libs 5.33

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1.199 libcom-err 1.45.6

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# 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:$(BSDLIB_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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

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

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

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

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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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Gadi Oxman, August 1995

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

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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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 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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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

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

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

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.

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That's all there is to it!
1.202 cjson 1.7.13 r0
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1.203 libselinux-utils 2.9

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1.204 diffutils 3.7 r0
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1.209 json-c 0.15 r0

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1.210 libunistring 0.9.9

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# Contributions to the urllib3 project

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  * 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

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  * Support for explicitly closing pooled connections

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  * 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@ravelosystems.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 <graftatcolmingov@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 <abacabadabadabacaba@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 Vandenberge <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 `urlib2.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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1.217 more-iter-tools 8.5.0 r0

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1.218 rpm-libs 4.14.3

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1.222 epel-release 8

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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1.223 fipscheck 1.4.1
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1.224 python3-pygobject 3.36.1 r0
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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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
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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
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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
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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```
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```

1.228 itsdangerous 1.1.0 r0

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

```python
import io
import re
```
from setuptools import find_packages
from setuptools import setup

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

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

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

Found in path(s):
* /opt/colla/permits/1294740012_1648246441.67/0/itsdangerous-1-1-0.tar.gz/itsdangerous-1.1.0/setup.py
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---

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

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

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

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

Installing
---------

Install and update using `pip`:

.. code-block:: text

    pip install -U itsdangerous

Example Use Cases
-----------------

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

Table of Contents
-----------------
.. toctree::

    signer
    serializer
    exceptions
    timed
    url_safe
    jws
    encoding
    license
    changes

Found in path(s):
* /opt/cola/permits/1294740012_1648246441.67/0/itsdangerous-1-1-0-tar-gz/itsdangerous-1.1.0/docs/index.rst
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Metadata-Version: 1.2
Name: itsdangerous
Version: 1.1.0
Summary: Various helpers to pass data to untrusted environments and back.
Home-page: https://palletsprojects.com/p/itsdangerous/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets Team
Maintainer-email: contact@palletsprojects.com
License: BSD
Description: itsdangerous

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

... so better sign this

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

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

Installing

----------

Install and update using `pip`:

.. code-block:: text

    pip install -U itsdangerous


A Simple Example

------------

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

.. code-block:: python

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

    print(token)
    # eyJpZCI6NSwibmFtZSI6Iml0c2Rhbmdlcm91cyJ9.6YP6T0BaO67XP--9UzTrmurXSmg

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

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------
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Links
-----

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Platform: UNKNOWN
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Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

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

1.229 vl53l0x 1.0.2

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/**
@file    DISCO_IOT_53L0A1_Gesture_Tap1.ino
@version V1.0.0
@date    07 July 2017
@brief    Arduino test application for the STMicroelectronics STM32 IOT Discovery Kit
          based on FlightSense and gesture library.
          This application makes use of C++ classes obtained from the C
          components' drivers.

@attention

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* /opt/cola/permits/1214327956_1634188763.64/0/stm32duino-vl53l0x-1-0-2-0-g13c23c5-1-tar-gz/stm32duino-VL53L0X-13c23c5/src/vl53l0x_types.h
* /opt/cola/permits/1214327956_1634188763.64/0/stm32duino-vl53l0x-1-0-2-0-g13c23c5-1-tar-gz/stm32duino-VL53L0X-13c23c5/src/vl53l0x_platform_log.h

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/**
 * @file vl53l0x_class.cpp
 * @author IMG
 * @version V0.0.1
 * @date 28-June-2016
 * @brief Implementation file for the VL53L0X driver class
 */

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/**
*****************************************************************************/

* @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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VL53L0X-13c23c5/src/RangeSensor.h

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/**
* ****************************************************************************
* @file    DISCO_IOT_53L0A1_DataLogTerminal.ino
* @author  WI6LABS from AST
* @version V1.0.0
* @date    07 July 2017
* @brief   Arduino test application for the STMicroelectronics STM32 IOT Discovery Kit
*          based on FlightSense.
*          This application makes use of C++ classes obtained from the C
*          components' drivers.
* ****************************************************************************
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/**
*****************************************************************************/

* @file    DISCO_IOT_53L0A1_Gesture_Swipe1.ino
* @author  WI6LABS from AST
* @version V1.0.0
* @date    07 July 2017
* @brief   Arduino test application for the STMicroelectronics STM32 IOT Discovery Kit
*          based on FlightSense and gesture library.
*          This application makes use of C++ classes obtained from the C
*          components' drivers.
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/**
*******************************************************************************
* @file ComponentObject.h
* @author AST
* @version V1.0.0
* @date April 13th, 2015
* @brief This file contains the abstract class describing the interface of a
generic component.
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

That's all there is to it!
1.231 octeon_utils 3.1.2

1.231.1 Available under license:

GPL License Exception:

Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+, this does *not* cover the so-called "standalone" applications that use U-Boot services by means of the jump table provided by U-Boot exactly for this purpose - this is merely considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

-- Wolfgang Denk
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/* zlib.h -- interface of the `zlib' general purpose compression library version 1.2.2, October 3rd, 2004

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1.232 configargparse 1.2.3 r0

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1.233 libnss-nisplus 1.3+git0+116219e215 r0

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Found in path(s):
* /opt/cola/permits/1214218249_1634166276.12/0/np5-lkm-tar/lkm/src/EZlkm.c

1.235 libpcap 1.9.1 r0

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<one line to give the program'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.

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1.240 gpgme 1.13.1

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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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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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1.254 pretend 1.0.9 r0

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* /opt/cola/permits/1294739178_1648246428.24/0/alex-pretend-v1-0-9-0-gfed40c9-tar-gz/alex-pretend-a4b2399/LICENSE.rst

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from setuptools import setup

with open("README.rst") as f:
    readme = f.read()

setup(
    version="1.0.9",
    name="pretend",
    description="A library for stubbing in Python",
    long_description=readme,
    author="Alex Gaynor",
    author_email="alex.gaynor@gmail.com",
    py_modules=["pretend"],
    url="https://github.com/alex/pretend",
    license="BSD",
    classifiers=[
        "Development Status :: 5 - Production/ Stable",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
    ]
)
"Operating System :: OS Independent",
"Topic :: Software Development :: Testing",
"Programming Language :: Python :: 2.6",
"Programming Language :: Python :: 2.7",
"Programming Language :: Python :: 3.2",
"Programming Language :: Python :: 3.3",
"Programming Language :: Python :: 3.4",
"Programming Language :: Python :: 3.5",
"Programming Language :: Python :: 3.6",
]
)
)

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* /opt/cola/permits/1294739178_1648246428.24/0/alex-pretend-v1-0-9-0-gfed40c9-tar-gz/alex-pretend-a4b2399/setup.py

1.255 libsigsegv 2.11

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Version 2, June 1991

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1.261 python3-asn1crypto 1.4.0 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.

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1.263 libgcc 8.4.1

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DRuntime: Runtime Library for the D Programming Language

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Version 3.1, 31 March 2009

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compiler_rt License

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

http://llvm.org

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<thead>
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<th>Program</th>
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<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
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1.265 dnf 4.4.2
1.265.1 Available under license:
No license file was found, but licenses were detected in source scan.

/*
*-----------------------------------------------------------------------------
* erp_cfg_parser.c - ERP config parser code
*/
* August 2011
*
* Copyright (c) 2011-2012, 2016-2017, 2019 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_cfg_parser.c
No license file was found, but licenses were detected in source scan.

/*
*------------------------------------------------------------------
* erp_ctrl_sm.c
* G.8032 ERP Controller state machine
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2020 by Cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_ctrl_sm.c
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/*
*------------------------------------------------------------------
* erp_ctrl.c - ERP Controller common code
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2014, 2016-2019, 2021 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_ctrl.c
No license file was found, but licenses were detected in source scan.

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

name: erp_ring

* Copyright (c) 2010-2011, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*----------------------------------------------------------------------------*
*/

Found in path(s):
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_ctrl_ha.c
No license file was found, but licenses were detected in source scan.

# erp_ring.zn - Oxide rules file
#
# June 2018, Gangadhara Valluri
#
# Copyright (c) 2018 by cisco Systems, Inc.
# All rights reserved.
#

name: erp_ring;
type: erp_ring_t;
type: erp_instance_t;
type: erp_port_id_t;
type: erp_profile_t;
type: erp_instance_stats_t;
type: erp_port_info_t;
type: erp_l2req_state_t;
type: erp_raps_encap_t;
type: xos_bitlist_handle;
type: xos_list_t;
type: xos_list_element_t;

Found in path(s):
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_ring.zn
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/*
* erp_io_pak.c - ERP IO packet handling source file
*
* August 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2014 by cisco Systems, Inc.
* All rights reserved.
*----------------------------------------------------------------------------*
*/

Found in path(s):
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/*
   *-------------------------------------------------------------------*
   * erp_io.c - ERP IO common code
   *
   * July 2010, Viet Nguyen
   *
   * Copyright (c) 2010-2011, 2016-2017 by cisco Systems, Inc.
   * All rights reserved.
   *-------------------------------------------------------------------*
   */

Found in path(s):
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_io.c
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/*
   *-------------------------------------------------------------------*
   * erp_ctrl.sm - Ethernet Ring Protection Controller state machine
   *
   * June 2010, Viet Nguyen
   *
   * Copyright (c) 2010-2011, 2019 by Cisco Systems, Inc.
   * All rights reserved.
   *-------------------------------------------------------------------*
   */

XOS_SM_EVENTLIST_BEGIN
XOS_SM_EVENT(init)
XOS_SM_EVENT(clear)
XOS_SM_EVENT(fs)
XOS_SM_EVENT(aps_fs)
XOS_SM_EVENT(local_sf)
XOS_SM_EVENT(local_clear_sf)
XOS_SM_EVENT(aps_sf)
XOS_SM_EVENT(aps_ms)
XOS_SM_EVENT(ms)
XOS_SM_EVENT(wtr_expires)
XOS_SM_EVENT(wtb_expires)
XOS_SM_EVENT(aps_nr_rb)
XOS_SM_EVENT(aps_nr)
XOS_SM_EVENT(ack)
XOS_SM_EVENTLIST_END

/*
   * State machine states
/* - Init,
* A_Idle,
* B_Protection,
* C_ManualSwitch,
* D_ForcedSwitch,
* E_Pending
*/

XOS_SM_STATE_BEGIN(init)
    XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
    XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_init_ack, E_Pending)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(A_Idle)
    XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, 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_local_clear_sf, 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_wtr_expires, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_wtb_expires, 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_STATE_END

XOS_SM_STATE_BEGIN(B_Protection)
    XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, 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_aps_sf, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_wtr_expires, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_wtb_expires, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb, 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_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(aps_sf, erp_ctrl_sm_action_aps_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, 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_aps_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, 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_ms, erp_ctrl_sm_action_aps_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, 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_STATE_END
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_wtr_expires, 
   E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_wtb_expires, 
   E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb, 
   E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_E_Pending_ack, E_Pending)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

Found in path(s):
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_ctrl.sm
No license file was found, but licenses were detected in source scan.

/*
 *---------------------------------------------------------------
 *
 * erp_ridb.c
 * G.8032 Ring/Instance Database
 * *
 * July 2010, Mark Bilstad
 * *
 * Copyright (c) 2010-2014, 2016, 2019 by Cisco Systems, Inc.
 * All rights reserved.
 *---------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_ridb.c
No license file was found, but licenses were detected in source scan.

/*
 *---------------------------------------------------------------
 *
 * erp_debug.c - G.8032 Ethernet Ring Protection debug routines
 *
 * June 2010, Viet Nguyen
 * *
 * Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.
 * All rights reserved.
 *---------------------------------------------------------------
 */

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* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_debug.c
No license file was found, but licenses were detected in source scan.

/*
 *---------------------------------------------------------------
 */
* erp_io_ha.c - ERP IO HA common code
* Sep 2010, Ramachandran Ramanujalu
* Copyright (c) 2010-2011 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267355810_1647465320.90/dnf-tar/src/erp_io_ha.c
No license file was found, but licenses were detected in source scan.

/*
*---------------------------------------------------------------
* erp_pd_caps_stubs.c - ERP Controller stub file
* July 2010, Ramachandran Ramanujalu
* Copyright (c) 2010-2011 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1267355810_1647465320.90/dnf-tar/src/erp_pd_caps_stubs.c
No license file was found, but licenses were detected in source scan.

/*
*---------------------------------------------------------------
* erp_io.sm - Ethernet Ring Protection Controller state machine
* June 2010, Viet Nguyen
* 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(wtrExpires)
XOS_SM_EVENT(wtbExpires)
XOS_SM_EVENT(apsNrRb)
XOS_SM_EVENT(apsNr)
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(apsFs, erp_io_sm_action_aps_fs, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(localSf, erp_io_sm_action_local_sf, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(localClearSf, erp_io_sm_action_null, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(apsSf, erp_io_sm_action_aps_sf, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(apsMs, 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(wtrExpires, erp_io_sm_action_null, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(wtbExpires, erp_io_sm_action_null, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(apsNrRb, erp_io_sm_action_aps_nr_rb, A_Idle) /* wait ack */
    XOS_SM_TRANSITION(apsNr, erp_io_sm_action_aps_nr, A_Idle) /* wait ack */
    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(apsFs, erp_io_sm_action_aps_fs, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(localSf, erp_io_sm_action_local_sf, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(localClearSf, erp_io_sm_action_local_clear_sf, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(apsSf, erp_io_sm_action_null, B_Protection) /* wait ack */
    XOS_SM_TRANSITION(apsMs, 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(wrt_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(wrt_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_aps_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, 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(wrt_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_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
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_STATE_END

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XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_wtr_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_wtb_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_E_Pending_ack, E_Pending)
XOS_SM.STATE_END

Found in path(s):
* /opt/cola/permits/1267355810_1647465320.90/dnf-tar/src/erp_io.sm
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/*
*---------------------------------------------------------------
* erp_pdb.h
* G.8032 Profile Database
* 
* July 2010, Mark Bilstad
* 
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*/

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*---------------------------------------------------------------
* erp_common.c - ERP common code
* 
* July 2010, Viet Nguyen
* 
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/*
*---------------------------------------------------------------
* erp_io_sm.c
* G.8032 ERP IO state machine
* 
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* 
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* /

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1.266 ethtool 5.8

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1.267 libedit 20191231-3.1 r0

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1.268 miura 1.9

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This file defines gport (generic port) parameters. The gport is useful for specifying the following types of identifiers:

- LOCAL      : port on the local unit
- MODPORT    : \{module ID, port\} pair
- TRUNK      : trunk ID
- PROXY      : \{module ID, port\} pair employed in proxy operations
- BLACK_HOLE : identifier indicating drop destination
- LOCAL_CPU  : identifier indicating local CPU destination
- MPLS_PORT  : L2 MPLS virtual-port (VPLS/VPWS)
- SUBPORT_GROUP : Subport group
- SUBPORT_PORT : Subport virtual-port
- UCAST_QUEUE_GROUP : Group of unicast COSQs
- MCAST_QUEUE_GROUP : Group of multicast COSQs
- UCAST_SUBSCRIBER_QUEUE_GROUP : Group of 64K subscriber unicast COSQs
- MCAST_SUBSCRIBER_QUEUE_GROUP : Group of 64K subscriber multicast COSQs
- MCAST : distribution set identifier
- SCHEDULER  : COSQ scheduler
- DEVPORT    : \{device ID, port\} pair (ports on devices without a module ID)
- SPECIAL    : application special value (invalid in BCM APIs)
- MIRROR     : Mirror (modport & encapsulation) for mirrored traffic.
- MIM_PORT   : MIM virtual-port
- VLAN_PORT  : VLAN virtual-port
- WLAN_PORT  : WLAN virtual-port
- TRILL_PORT : TRILL virtual-port
- NIV_PORT   : NIV virtual-port
- EXTENDER_PORT : Extender virtual-port
- MAC_PORT   : MAC virtual-port
- TUNNEL     : Tunnel ID
- MULTIPATH  : Multipath shaper

This header requires that the uint32 type be defined before inclusion. Using <sal/types.h> is the simplest (and recommended) way of doing this.

Its contents are not used directly by applications; it is used only by header files of parent APIs which need to define gport parameters.

The following macros are made available. All have names starting...
* with _SHR_, which have been elided from this list:

* Constants or Expressions suitable for assignment:
  * GPORT_NONE                   gport initializer
  * GPORT_INVALID                invalid gport identifier
  * GPORT_BLACK_HOLE             black-hole gport identifier
  * GPORT_LOCAL_CPU              local CPU gport identifier

* Predicates: (return 0 or 1, suitable for using in if statements)
  * GPORT_IS_SET                 is the gport set?
  * GPORT_IS_LOCAL               is the gport a local port type?
  * GPORT_IS_MODPORT             is the gport a modid/port type?
  * GPORT_IS_TRUNK               is the gport a trunk type?
  * GPORT_IS_BLACK_HOLE          is the gport a black-hole type?
  * GPORT_IS_LOCAL_CPU           is the gport a local CPU type?
  * GPORT_IS_MPLS_PORT           is the gport a MPLS port type?
  * GPORT_IS_SUBPORT_GROUP       is the gport a subport group type?
  * GPORT_IS_SUBPORT_PORT        is the gport a subport port type?
  * GPORT_IS_UCAST_QUEUE_GROUP  is the gport a unicast group type?
  * GPORT_IS_UCAST_SUBSCRIBER_QUEUE_GROUP is the gport a subscriber unicast group type?
  * GPORT_IS_MCAST               is the gport a multicast set type?
  * GPORT_IS_MCAST_QUEUE_GROUP  is the gport a multicast queue group type?
  * GPORT_IS_MCAST_SUBSCRIBER_QUEUE_GROUP is the gport a multicast subscriber queue group type?
  * GPORT_IS_SCHEDULER          is the gport a scheduler type?
  * GPORT_IS_DEVPORT            is the gport a devid/port type?
  * GPORT_IS_SPECIAL            is the gport a special type?
  * GPORT_IS_MIRROR             is the gport a mirror destination type?
  * GPORT_IS_MIM_PORT           is the gport a MIM port type?
  * GPORT_IS_VLAN_PORT          is the gport a VLAN port type?
  * GPORT_IS_WLAN_PORT          is the gport a WLAN port type?
  * GPORT_IS_TRILL_PORT         is the gport a TRILL port type?
  * GPORT_IS_NIV_PORT           is the gport a NIV port type?
  * GPORT_IS_EXTENDER_PORT      is the gport an Extender port type?
  * EXTENDER_GPORT_IS_PORT      is the extender gport a port subtype?
  * EXTENDER_GPORT_IS_FORWARD   is the extender gport a port forward?
  * EXTENDER_GPORT_IS_ENCAP     is the extender gport a port encap?
  * GPORT_IS_MAC_PORT           is the gport a MAC port type?
  * GPORT_IS_TUNNEL             is the gport a tunnel type?
  * GPORT_IS_CHILD              is the gport a child port type?
  * GPORT_IS_EGRESS_GROUP       is the gport an egress group type?
  * GPORT_IS_EGRESS_CHILD       is the gport an egress child type?
  * GPORT_IS_EGRESS_MODPORT     is the gport an 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_SYSSPORTID_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_SYSSPORTID_GET get a unicast queue group system port ID
* GPORT_UCAST_QUEUEGROUP_QID_GET get a unicast 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 compatibility
* 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
*/

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/chip/phy542xx_diagnostics.h
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* File: uc_msg.h
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Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/uc_msg.h
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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/common/adapter_all.oc.h

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gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_doc.h

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* ISM-HASH management routines
*/

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alones_Api/v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ism_hash.h
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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/dport.h
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<td class="memItemLeft" align="right" valign="top">unsigned char bcm_plp_base_t_secy_sa_e_t::confidentiality_offset</td>
<p>true - enable confidentiality protection<br/>
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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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 *
 * General utility routines
 */
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This file defines L3 constants

Its contents are not used directly by applications; it is used only
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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/rx.h

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/*
 */

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This file contains structure and routine declarations for the
Switch-on-a-Chip Driver.

This file also includes the more common include files so the
individual driver files don't have to include as much.

*/

Found in path(s):
/opt/cola/permits/123841148_1647486907_56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/drv.h

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/intr.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):
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gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/phyfege.h
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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_diagnostics.h
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 * $Id$
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* File: allfields.h
* Purpose: Field declarations for memory and registers
*
*/

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*******************************************************************************/
/* true - enable confidentiality protection */
/* false - disable confidentiality protection */
/* true - enable confidentiality protection (AES-GCM/CTR operation) */
/* false - disable confidentiality protection (AES-GMAC operation) */

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targ-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/incl/eip160_secy.h

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* Description: c functions implementing Tier1
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* $Id$
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targ-
  gz/Seahawks_Stand_Alon_APIs_v_1_2/SHWK_1_2/phyiod/mod/seahawks/tier1/phy542xx_diag_seq.h
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//------------------------------------------------------------------------------

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targ-
  gz/Seahawks_Stand_Alon_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP201/src/c_eip201.h
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*
* File: libc.h
* Purpose: Some C library functions to remove dependencies
* of the driver on external libraries.
*
* The compiler 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):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/libc.h
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/*
 *
* $Id: phymod_definitions.h,v 1.2.2.12 2013/09/03 06:54:51 dayad Exp $
*
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* *
* Phymod external definitions
* *
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_definitions.h
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Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targ-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_systemtestconfig.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targ-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP217/src/c_eip217.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targ-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_driver_ext.h

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

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

/* $Id: phyxehg.h,v 1.3 Broadcom SDK $ */
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File: phyxehg.h
Purpose: Defines common PHY driver routines for Broadcom 10G PHY.

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$Id: bitop.h,v 1.16 Broadcom SDK $
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bit Array Operations

Bit Array Operations

Bit Array Operations

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

Found in path(s):
*/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIS_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/phyconfig.h

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/*

$Id: boot.h,v 1.18.152.2 Broadcom SDK $

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

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/boot.h

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

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#

- README file for the PHY software driver

- Description

This package contains PHY software drivers.

Further README contents

1. List of key files
2. How to Compile
3. An example of how to write a sample program to access software driver library using EPDM
4. How to access documentation
5. How to specify firmware download method
6. Microcode Release
7. Floating point library requirement
8. To enable debug message for register read and write
9. Updating PRE defined macro with user defined macro/API
10. Warmboot support
11. Using EPDM common define to compile driver

1. List of key files
-------------------
README - This is README file
ReleaseNote.txt - List of changes between current releases to previous release version
ReleaseNote_fw_<chip>.txt - <chip> firmware release notes.
bcm_pm_if - PHYMOD Interface functionalities
bcm_plp_sec or bcm_plp_base_t_sec - CfyE and SecY Interface functionality or SecY interface support
DDK or IMACSEC - CfyE and SecY source or SecY support
doc - Documentation (using Doxygen)
<chip>_reference_app - Sample application to access phy chip
make - make rules and config files
Makefile - Makefile provides 'build' and 'clean' the targets
phymod/acc - Platform specific register access mechanism
phymod/chip - All supported CHIPS
phymod/chip/<chip> - chip specific functionalities
phymod/core - PHYMOD APIs for dispatch,access,diagnostics and debug
phymod/diag - PHYMOD diag APIs for eyescan,dsc.. etc
phymod/doc - Documentation for phymod (using Doxygen)
phymod/include - Header files, phymod custom config header file
phymod/include/phymod - PHYMOD APIs related header files
phymod/include/phymod/acc - PHYMOD APIs access header files
phymod/include/phymod/chip - PHYMOD APIs chip related header files

2. How to compile
------------------
To compile, unpack it to a directory and run
To Unpack
---------

tar -zxvf <CHIP>_<Y>_<Z>.tgz

To compile
cd <CHIP>_<Y>_<Z>.tgz
make clean
make

3. An example of how to write a sample program to access software driver library using EPDM

Application users have to download EPDM(External PHY Device manager) to their code to access phy drivers.

All supported EPDM APIs are listed under $EPDM/epdm.h and $EPDM/epdm_sec.h(for DDK) or $EPDM/epdm_base_t_sec.h(for IMACSEC).

-> User needs to set $EPDM_HOME in Makefile with the EPDM source code location

Example Application program:

$<CHIP>_<Y>_<Z>/<chip>_reference_app have an example of accessing PHY driver library through EPDM

4. How to access documentation

See the included doc pages for more information on $<CHIP>_<Y>_<Z>.

Documentation pages available at $<CHIP>_<Y>_<Z>/doc/html/index.html

5. How to specify firmware download method

Broadcast Firmware Download

Broadcast Firmware download is a method to broadcast firmware on all phy devices connected on same MDIO bus.

Broadcast is supported by MDIO download method.

Application has to follow below steps to start the broadcast firmware download using this API:

```c
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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>bcmppmFirmwareLoadMethodNone</td>
</tr>
<tr>
<td>1</td>
<td>bcmppmFirmwareLoadMethodInternal</td>
</tr>
<tr>
<td>2</td>
<td>bcmppmFirmwareLoadMethodExternal</td>
</tr>
<tr>
<td>3</td>
<td>bcmppmFirmwareLoadMethodProgEEPROM</td>
</tr>
</tbody>
</table>
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.

   bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type,
bcmFirmwareBroadcastEnable); ## Enable Broadcast mode, Broadcast Starts

   bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type,
bcmFirmwareBroadcastFirmwareExecute); ## Download MICROCODE

   bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type,
bcmFirmwareBroadcastFirmwareVerify); ## verify FW

   bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type, bcmFirmwareBroadcastEnd);  ## End of broadcast

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_EPIE_CPPFLAGS += -DSERDES_API_FLOATING_POINT
before
export PHYMOD_EPIE_DSYM_CPPFLAGS

8. To enable debug message for register read and write:

Add TMP_PHYMOD_EPIE_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_EPIE_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_cye_device_init with flags (under bcm_plp_info structure) as BCM_PLP_WARM_BOOT and
   Call bcm_plp_secy_device_init with flags (under bcm_plp_info structure) as BCM_PLP_WARM_BOOT.

NOTE: For cold boot it is expected to clear flags (under bcm_plp_info structure)

11. Using EPDM common define to compile driver

1. Enabling driver to use epdm common defines,
Step 1: Compile with TMP_PHYMOD_EPIL_CPPFLAGS += -DUSE_EPDM_COMMON_DEFINES in make/config.mk file

Step 2: Define EPDM_HOME based on your EPDM installation directory

Note: By default driver uses common defines that is available in the driver package.

Found in path(s):
*/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targ-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/README
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*
*/
*
*$Id: phymod_definitions.h,v 1.2.2.12 2013/09/03 06:54:51 dayad Exp $
*
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*
* Shell diagnostics of Phymod
*
*/

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alones_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_diag.h

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alones_v_1_2/SHWK_1_2/imacsec/Kit/List/src/list.c

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
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* $Id$
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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/doc/dox/all_doc.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/seahawks_reference_app/WinTypes.h

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

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/html/structbcm___plp___base___t_secy___sa___i___t.html
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$Id: phy542xx_cfg_seq.c $
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 *
 * File: register.h
 * Purpose: Base definitions for register types
* Requires:
*/

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/register.h
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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy_unimac.h
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$/Id$
*/

sa.Params.Egress.ConfidentialityOffset = sa_p->params.egress.confidentiality_offset; \
sa.Params.Ingress.ConfidentialityOffset = sa_p->params.ingress.confidentiality_offset; \
sa.Params.CryptAuth.ConfidentialityOffset = sa_p->params.crypt_auth.confidentiality_offset; \

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_plp_base_t_secy_api.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/bcm_plp_base_t_secy_api.h

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* File:  phyident.h
* Purpose:  Basic defines for PHY Model/OUI/Rev for PHY identification.
* Note:  This header file is for PHY driver module. Should not include
* this header file in SOC or BCM layers.
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targ.gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/phyident.h
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* 
* Chip symbol table definitions.
*/

Found in path(s):
* /opt/cola/permits/123841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_symbols.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#a6f78468eb0dbc6aea2888df9544b9be7"><param name="Name" value="confidentiality_offset"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Local" value="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44"><param name="Name" value="confidentiality_offset"></OBJECT>
<LI><OBJECT type="text/sitemap"><param name="Local" value="structbcm__plp__base__t__secy__sa__ca__t.html#aa2c876827f8a8dfa4c09a43182963529"><param name="Name" value="confidentiality_offset"></OBJECT>

Found in path(s):
* /opt/cola/permits/123841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/doc/html/index.hhk

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

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIS_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/feature.h

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

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/spl.h
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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/doc/mkdoc
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/doc/mkdoc
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 *
 * Port Bitmap Macros
*/
*/

Found in path(s):
/ /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/pbmp.h

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* File: sbusdma.h
* Purpose: Maps out structures used for SBUSDMA operations and
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*/

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*
* XGS internal PHY read function with AER support.
*
* This function accepts a 32-bit PHY register address and will
* properly configure clause 45 DEVAD and XAUI lane access.
* Please see phymod_reg.h for additional information.
*
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIS_v_1_2/SHWK_1_2/phymod/acc/phymod_tsc_iblk.c
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 *
 * File:        phyctrl.h
 *
 * Data structures and function prototypes for PHY register access.
 */

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Sand Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phyctrl.h

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

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Sta.../SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/drvtypes.h
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 *
* $Id: phymod.xml,v 1.1.2.5 2013/09/12 10:43:06 nirf Exp $
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Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Sta.../phy542xx_diagnosics_dispatch.c
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Sta.../phy542xx_dispatch.c
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*
* /

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/seahawks_reference_app/seahawks_common.c
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AXP management routines

Found in path(s):

/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_AlonerAPIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/apx.h
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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/c_eip62.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip62_level0.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip160_device.c
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip62.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_list.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip201.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_hwpal_umdevxs.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip160_hw_interface.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_hwpal.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip160.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP217/src/eip217_level0.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip160_internal.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_hwpal_ext.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP217/src/eip217_level0.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip160_internal.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_hwpal_ext.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP217/src/eip217_level0.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip160_internal.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_hwpal_ext.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP217/src/eip217_level0.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip160_internal.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_hwpal_ext.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP217/src/eip217_level0.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip160_internal.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_hwpal_ext.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP217/src/eip217_level0.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip160_internal.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_hwpal_ext.h
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 *
 * File: counter.h
* Purpose: Defines map of counter register addresses, as well
* as structures and routines for driver management of
* packet statistics counters.
*/

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Agone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/counter.h
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****************************************************************************/
/** true - enable confidentiality protection
    false - disable confidentiality protection */
/** true - enable confidentiality protection (AES-GCM/CTR operation)
    false - disable confidentiality protection (AES-GMAC operation) */

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Agone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/incl/api_xtsecy_types.h
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* WHICHERVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
* ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.$
*
* File: types.h
* Purpose: SAL type definitions
* /

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIS_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/sal/types.h

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

/*/  
* $Id: phyreg.h,v 1.22 Broadcom SDK $  
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* WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
* ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.$
*
* File: phyreg.h
*
* Data structures and function prototypes for PHY register access.
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targ-
  gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy PHYreg.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: alloc.h,v 1.8 Broadcom SDK $
# 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 = .

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

OUTPUT_LANGUAGE = English

BRIEF_MEMBER_DESC = NO

REPEAT_BRIEF = NO

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 \noshuffling command.

SUBGROUPING = YES

# When TYPEDEF_HIDES_STRUCT is enabled, a typedef of a struct, union, or enum
# is documented as struct, union, or enum with the name of the typedef. So
# typedef struct TypeS {} TypeT, will appear in the documentation as a struct
# with name TypeT. When disabled the typedef will appear as a member of a file,
# namespace, or class. And the struct will be named TypeS. This can typically
# be useful for C code in case the coding convention dictates that all compound
# types are typedef'ed and only the typedef is referenced, never the tag name.

TYPEDEF_HIDES_STRUCT = NO

# The SYMBOL_CACHE_SIZE determines the size of the internal cache use to
# determine which symbols to keep in memory and which to flush to disk.
# When the cache is full, less often used symbols will be written to disk.
# For small to medium size projects (<1000 input files) the default value is
# probably good enough. For larger projects a too small cache size can cause
# doxygen to be busy swapping symbols to and from disk most of the time
# causing a significant performance penalty.
# If the system has enough physical memory increasing the cache will improve the
# performance by keeping more symbols in memory. Note that the value works on
# a logarithmic scale so increasing the size by one will roughly double the
# memory usage. The cache size is given by this formula:
# 2^(16+SYMBOL_CACHE_SIZE). The valid range is 0..9, the default is 0,
# corresponding to a cache size of 2^16 = 65536 symbols

SYMBOL_CACHE_SIZE = 0

#-----------------------------------------------------------
# Build related configuration options
#-----------------------------------------------------------
# If the EXTRACT_ALL tag is set to YES doxygen will assume all entities in
# documentation are documented, even if no documentation was available.
# Private class members and static file members will be hidden unless
# the EXTRACT_PRIVATE and EXTRACT_STATIC tags are set to YES

EXTRACT_ALL = YES

# If the EXTRACT_PRIVATE tag is set to YES all private members of a class
# will be included in the documentation.

EXTRACT_PRIVATE = NO

# If the EXTRACT_STATIC tag is set to YES all static members of a file
# will be included in the documentation.

EXTRACT_STATIC = NO

# If the EXTRACT_LOCAL_CLASSES tag is set to YES classes (and structs)
# defined locally in source files will be included in the documentation.
# If set to NO only classes defined in header files are included.

EXTRACT_LOCAL_CLASSES = YES

# This flag is only useful for Objective-C code. When set to YES local
# methods, which are defined in the implementation section but not in
# the interface are included in the documentation.
# If set to NO (the default) only methods in the interface are included.

EXTRACT_LOCAL_METHODS = NO

# If this flag is set to YES, the members of anonymous namespaces will be
# extracted and appear in the documentation as a namespace called
# `anonymous_namespace{file}`, where file will be replaced with the base
# name of the file that contains the anonymous namespace. By default
# anonymous namespace are hidden.

EXTRACT_ANON_NSPACES = NO

# If the HIDE_UNDOC_MEMBERS tag is set to YES, Doxygen will hide all
# undocumented members of documented classes, files or namespaces.
# If set to NO (the default) these members will be included in the
# various overviews, but no documentation section is generated.
# This option has no effect if EXTRACT_ALL is enabled.

HIDE_UNDOC_MEMBERS = YES

# If the HIDE_UNDOC_CLASSES tag is set to YES, Doxygen will hide all
# undocumented classes that are normally visible in the class hierarchy.
# If set to NO (the default) these classes will be included in the various
# overviews. This option has no effect if EXTRACT_ALL is enabled.

HIDE_UNDOC_CLASSES     = YES

# If the HIDE_FRIEND_COMPOUNDS tag is set to YES, Doxygen will hide all
# friend (class|struct|union) declarations.
# If set to NO (the default) these declarations will be included in the
# documentation.

HIDE_FRIEND_COMPOUNDS  = YES

# If the HIDE_IN_BODY_DOCS tag is set to YES, Doxygen will hide any
# documentation blocks found inside the body of a function.
# If set to NO (the default) these blocks will be appended to the
# function's detailed documentation block.

HIDE_IN_BODY_DOCS      = YES

# The INTERNAL_DOCS tag determines if documentation
# that is typed after a \internal command is included. If the tag is set
# to NO (the default) then the documentation will be excluded.
# Set it to YES to include the internal documentation.

INTERNAL_DOCS          = NO

# If the CASE_SENSE_NAMES tag is set to NO then Doxygen will only generate
# file names in lower-case letters. If set to YES upper-case letters are also
# allowed. This is useful if you have classes or files whose names only differ
# in case and if your file system supports case sensitive file names. Windows
# and Mac users are advised to set this option to NO.

CASE_SENSE_NAMES       = YES

# If the HIDE_SCOPE_NAMES tag is set to NO (the default) then Doxygen
# will show members with their full class and namespace scopes in the
# documentation. If set to YES the scope will be hidden.

HIDE_SCOPE_NAMES       = NO

# If the SHOW_INCLUDE_FILES tag is set to YES (the default) then Doxygen
# will put a list of the files that are included by a file in the documentation
# of that file.

SHOW_INCLUDE_FILES    = NO

# If the INLINE_INFO tag is set to YES (the default) then a tag [inline]
# is inserted in the documentation for inline members.

INLINE_INFO = YES

# If the SORT_MEMBER_DOCS tag is set to YES (the default) then doxygen will sort the (detailed) documentation of file and class members alphabetically by member name. If set to NO the members will appear in declaration order.

SORT_MEMBER_DOCS = NO

# If the SORT_BRIEF_DOCS tag is set to YES then doxygen will sort the brief documentation of file, namespace and class members alphabetically by member name. If set to NO (the default) the members will appear in declaration order.

SORT_BRIEF_DOCS = NO

# If the SORT_GROUP_NAMES tag is set to YES then doxygen will sort the hierarchy of group names into alphabetical order. If set to NO (the default) the group names will appear in their defined order.

SORT_GROUP_NAMES = NO

# If the SORT_BY_SCOPE_NAME tag is set to YES, the class list will be sorted by fully-qualified names, including namespaces. If set to NO (the default), the class list will be sorted only by class name, not including the namespace part.

# Note: This option is not very useful if HIDE_SCOPE_NAMES is set to YES.

# Note: This option applies only to the class list, not to the alphabetical list.

SORT_BY_SCOPE_NAME = NO

# The GENERATE_TODOLIST tag can be used to enable (YES) or disable (NO) the todo list. This list is created by putting \todo commands in the documentation.

GENERATE_TODOLIST = YES

# The GENERATE_TESTLIST tag can be used to enable (YES) or disable (NO) the test list. This list is created by putting \test commands in the documentation.

GENERATE_TESTLIST = YES

# The GENERATE_BUGLIST tag can be used to enable (YES) or disable (NO) the bug list. This list is created by putting \bug
# commands in the documentation.

GENERATE_BUGLIST = YES

# The GENERATE_DEPRECATEDLIST tag can be used to enable (YES) or disable (NO) the deprecated list. This list is created by putting \deprecated commands in the documentation.

GENERATE_DEPRECATEDLIST = YES

# The ENABLED_SECTIONS tag can be used to enable conditional documentation sections, marked by \if sectionname ... \endif.

ENABLED_SECTIONS =

# The MAX_INITIALIZER_LINES tag determines the maximum number of lines the initial value of a variable or define consists of for it to appear in the documentation. If the initializer consists of more lines than specified here it will be hidden. Use a value of 0 to hide initializers completely. The appearance of the initializer of individual variables and defines in the documentation can be controlled using \showinitializer or \hideinitializer command in the documentation regardless of this setting.

MAX_INITIALIZER_LINES = 30

# Set the SHOW_USED_FILES tag to NO to disable the list of files generated at the bottom of the documentation of classes and structs. If set to YES the list will mention the files that were used to generate the documentation.

SHOW_USED_FILES = NO

# If the sources in your project are distributed over multiple directories then setting the SHOW_DIRECTORIES tag to YES will show the directory hierarchy in the documentation. The default is NO.

SHOW_DIRECTORIES = NO

# Set the SHOW_FILES tag to NO to disable the generation of the Files page. This will remove the Files entry from the Quick Index and from the Folder Tree View (if specified). The default is YES.

SHOW_FILES = YES

# Set the SHOW_NAMESPACES tag to NO to disable the generation of the Namespaces page. This will remove the Namespaces entry from the Quick Index and from the Folder Tree View (if specified). The default is YES.

SHOW_NAMESPACES = YES
# The FILE_VERSION_FILTER tag can be used to specify a program or script that
doxygen should invoke to get the current version for each file (typically from
the version control system). Doxygen will invoke the program by executing (via
popen()) the command `<command> <input-file>`, where `<command>` is the value of
the FILE_VERSION_FILTER tag, and `<input-file>` is the name of an input file
provided by doxygen. Whatever the program writes to standard output
is used as the file version. See the manual for examples.

FILE_VERSION_FILTER =

# The LAYOUT_FILE tag can be used to specify a layout file which will be parsed
by doxygen. The layout file controls the global structure of the generated
output files in an output format independent way. 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 enabled 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:
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.

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

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

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 OUTPUTDIRECTORY 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.)
# 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
## Configuration options related to the man 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.
PERLMODPRETTY = YES

# The names of the make variables in the generated doxyrules.make file
# are prefixed with the string contained in PERLMOD_MAKEVAR_PREFIX.
# This is useful so different doxyrules.make files included by the same
# Makefile don't overwrite each other's variables.

PERLMOD_MAKEVAR_PREFIX =

#---------------------------------------------------------------------------
# Configuration options related to the preprocessor
#---------------------------------------------------------------------------

# If the ENABLE_PREPROCESSING tag is set to YES (the default) Doxygen will
# evaluate all C-preprocessor directives found in the sources and include
# files.

ENABLE_PREPROCESSING = YES

# If the MACRO_EXPANSION tag is set to YES Doxygen will expand all macro
# names in the source code. If set to NO (the default) only conditional
# compilation will be performed. Macro expansion can be done in a controlled
# way by setting EXPAND_ONLY_PREDEF to YES.

MACRO_EXPANSION = YES

# If the EXPAND_ONLY_PREDEF and MACRO_EXPANSION tags are both set to YES
# then the macro expansion is limited to the macros specified with the
# PREDEFINED and EXPAND_AS_DEFINED tags.

EXPAND_ONLY_PREDEF = YES

# If the SEARCH_INCLUDES tag is set to YES (the default) the includes files
# in the INCLUDE_PATH (see below) will be search if a #include is found.

SEARCH_INCLUDES = YES

# The INCLUDE_PATH tag can be used to specify one or more directories that
# contain include files that are not input files but should be processed by
# the preprocessor.

INCLUDE_PATH =

# You can use the INCLUDE_FILE_PATTERNS tag to specify one or more wildcard
# patterns (like *.h and *.hpp) to filter out the header-files in the
# directories. If left blank, the patterns specified with FILE_PATTERNS will
# be used.
INCLUDE_FILE PATTERNS =

# The PREDEFINED tag can be used to specify one or more macro names that
# are defined before the preprocessor is started (similar to the -D option of
# gcc). The argument of the tag is a list of macros of the form: name
# or name=definition (no spaces). If the definition and the = are
# omitted =1 is assumed. To prevent a macro definition from being
# undefined via #undef or recursively expanded use the := operator
# instead of the = operator.

PREDEFINED = INCLUDE_XGXS_TEMOD PHYMOD_DEBUG_ERROR
PHYMOD_DEBUG_VERBOSE PHYMOD_USLEEP PHYMOD_SLEEP PHYMOD_MALLOC
PHYMOD_FREE PHYMOD_MEMSET PHYMOD_MEMCPY PHYMOD_STRCMP

# If the MACRO_EXPANSION and EXPAND_ONLY_PREDEF tags are set to YES then
# this tag can be used to specify a list of macro names that should be expanded.
# The macro definition that is found in the sources will be used.
# Use the PREDEFINED tag if you want to use a different macro definition.

EXPAND_AS_DEFINED =

# If the SKIP_FUNCTION_MACROS tag is set to YES (the default) then
# doxygen's preprocessor will remove all function-like macros that are alone
# on a line, have an all uppercase name, and do not end with a semicolon. Such
# function macros are typically used for boiler-plate code, and will confuse
# the parser if not removed.

SKIP_FUNCTION_MACROS = YES

#-----------------------------------------------
# Configuration::additions related to external references
#-----------------------------------------------

# The TAGFILES option can be used to specify one or more tagfiles.
# Optionally an initial location of the external documentation
# can be added for each tagfile. The format of a tag file without
# this location is as follows:
# TAGFILES = file1 file2 ...
# Adding location for the tag files is done as follows:
# TAGFILES = file1=loc1 "file2 = loc2" ...
# where "loc1" and "loc2" can be relative or absolute paths or
# URLs. If a location is present for each tag, the installdox tool
# does not have to be run to correct the links.
# Note that each tag file must have a unique name
# (where the name does NOT include the path)
# If a tag file is not located in the directory in which doxygen
# is run, you must also specify the path to the tagfile here.
TAGFILES =

# When a file name is specified after GENERATE_TAGFILE, doxygen will create
# a tag file that is based on the input files it reads.

GENERATE_TAGFILE =

# If the ALLEXTERNALS tag is set to YES all external classes will be listed
# in the class index. If set to NO only the inherited external classes
# will be listed.

ALLEXTERNALS = NO

# If the EXTERNAL_GROUPS tag is set to YES all external groups will be listed
# in the modules index. If set to NO, only the current project's groups will
# be listed.

EXTERNAL_GROUPS = YES

# The PERL_PATH should be the absolute path and name of the perl script
# interpreter (i.e. the result of `which perl').

PERL_PATH = /usr/bin/perl

#---------------------------------------------------------------
# Configuration options related to the dot tool
#---------------------------------------------------------------

# If the CLASS_DIAGRAMS tag is set to YES (the default) Doxygen will
# generate a inheritance diagram (in HTML, RTF and LaTeX) for classes with base
# or super classes. Setting the tag to NO turns the diagrams off. Note that
# this option is superseded by the HAVE_DOT option below. This is only a
# fallback. It is recommended to install and use dot, since it yields more
# powerful graphs.

CLASS_DIAGRAMS = YES

# You can define message sequence charts within doxygen comments using the \msc
# command. Doxygen will then run the mscgen tool (see
# http://www.mcternan.me.uk/mscgen/) to produce the chart and insert it in the
# documentation. The MSCGEN_PATH tag allows you to specify the directory where
# the mscgen tool resides. If left empty the tool is assumed to be found in the
# default search path.

MSCGEN_PATH =

# If set to YES, the inheritance and collaboration graphs will hide
# inheritance and usage relations if the target is undocumented
# or is not a class.

HIDE_UNDOC_RELATIONS = YES

# If you set the HAVE_DOT tag to YES then doxygen will assume the dot tool is
# available from the path. This tool is part of Graphviz, a graph visualization
# toolkit from AT&T and Lucent Bell Labs. The other options in this section
# have no effect if this option is set to NO (the default)

HAVE_DOT = YES

# By default doxygen will write a font called FreeSans.ttf to the output
# directory and reference it in all dot files that doxygen generates. This
# font does not include all possible unicode characters however, so when you need
# these (or just want a differently looking font) you can specify the font name
# using DOT_FONTNAME. You need need to make sure dot is able to find the font,
# which can be done by putting it in a standard location or by setting the
# DOTFONTPATH environment variable or by setting DOT_FONTPATH to the directory
# containing the font.

DOT_FONTNAME = FreeSans

# By default doxygen will tell dot to use the output directory to look for the
# FreeSans.ttf font (which doxygen will put there itself). If you specify a
# different font using DOT_FONTNAME you can set the path where dot
# can find it using this tag.

DOT_FONTPATH =

# If the CLASS_GRAPH and HAVE_DOT tags are set to YES then doxygen
# will generate a graph for each documented class showing the direct and
# indirect inheritance relations. Setting this tag to YES will force the
# the CLASS_DIAGRAMS tag to NO.

CLASS_GRAPH = YES

# If the COLLABORATION_GRAPH and HAVE_DOT tags are set to YES then doxygen
# will generate a graph for each documented class showing the direct and
# indirect implementation dependencies (inheritance, containment, and
# class references variables) of the class with other documented classes.

COLLABORATION_GRAPH = YES

# If the GROUP_GRAPHS and HAVE_DOT tags are set to YES then doxygen
# will generate a graph for groups, showing the direct groups dependencies

GROUP_GRAPHS = YES
# If the UML_LOOK tag is set to YES doxygen will generate inheritance and
# collaboration diagrams in a style similar to the OMG's Unified Modeling
# Language.

UML_LOOK = NO

# If set to YES, the inheritance and collaboration graphs will show the
# relations between templates and their instances.

TEMPLATE_RELATIONS = NO

# If the ENABLE_PREPROCESSING, SEARCH_INCLUDES, INCLUDE_GRAPH, and HAVE_DOT
# tags are set to YES then doxygen will generate a graph for each documented
# file showing the direct and indirect include dependencies of the file with
# other documented files.

INCLUDE_GRAPH = YES

# If the ENABLE_PREPROCESSING, SEARCH_INCLUDES, INCLUDED_BY_GRAPH, and
# HAVE_DOT tags are set to YES then doxygen will generate a graph for each
# documented header file showing the documented files that directly or
# indirectly include this file.

INCLUDED_BY_GRAPH = YES

# If the CALL_GRAPH and HAVE_DOT options are set to YES then
# doxygen will generate a call dependency graph for every global function
# or class method. Note that enabling this option will significantly increase
# the time of a run. So in most cases it will be better to enable call graphs
# for selected functions only using the \callgraph command.

CALL_GRAPH = NO

# If the CALLER_GRAPH and HAVE_DOT tags are set to YES then
# doxygen will generate a caller dependency graph for every global function
# or class method. Note that enabling this option will significantly increase
# the time of a run. So in most cases it will be better to enable caller
# graphs for selected functions only using the \callergraph command.

CALLER_GRAPH = NO

# If the GRAPHICAL_HIERARCHY and HAVE_DOT tags are set to YES then doxygen
# will graphical hierarchy of all classes instead of a textual one.

GRAPHICAL_HIERARCHY = YES

# If the DIRECTORY_GRAPH, SHOW_DIRECTORIES and HAVE_DOT tags are set to YES

---
# then doxygen will show the dependencies a directory has on other directories
# in a graphical way. The dependency relations are determined by the #include
# relations between the files in the directories.

DIRECTORY_GRAPH        = YES

# The DOT_IMAGE_FORMAT tag can be used to set the image format of the images
# generated by dot. Possible values are png, jpg, or gif
# If left blank png will be used.

DOT_IMAGE_FORMAT       = png

# The tag DOT_PATH can be used to specify the path where the dot tool can be
# found. If left blank, it is assumed the dot tool can be found in the path.

DOT_PATH               =

# The DOTFILE_DIRS tag can be used to specify one or more directories that
# contain dot files that are included in the documentation (see the
# \dotfile command).

DOTFILE_DIRS           =

# The DOT_GRAPH_MAX_NODES tag can be used to set the maximum number of
# nodes that will be shown in the graph. If the number of nodes in a graph
# becomes larger than this value, doxygen will truncate the graph, which is
# visualized by representing a node as a red box. Note that doxygen if the
# number of direct children of the root node in a graph is already larger than
# DOT_GRAPH_MAX_NODES then the graph will not be shown at all. Also note
# that the size of a graph can be further restricted by MAX_DOT_GRAPH_DEPTH.

DOT_GRAPH_MAX_NODES    = 50

# The MAX_DOT_GRAPH_DEPTH tag can be used to set the maximum depth of the
# graphs generated by dot. A depth value of 3 means that only nodes reachable
# from the root by following a path via at most 3 edges will be shown. Nodes
# that lay further from the root node will be omitted. Note that setting this
# option to 1 or 2 may greatly reduce the computation time needed for large
# code bases. Also note that the size of a graph can be further restricted by
# DOT_GRAPH_MAX_NODES. Using a depth of 0 means no depth restriction.

MAX_DOT_GRAPH_DEPTH    = 0

# Set the DOT_TRANSPARENT tag to YES to generate images with a transparent
# background. This is disabled by default, because dot on Windows does not
# seem to support this out of the box. Warning: Depending on the platform used,
# enabling this option may lead to badly anti-aliased labels on the edges of
# a graph (i.e. they become hard to read).
DOT_TRANSPARENT = NO

# Set the DOT_MULTI_TARGETS tag to YES allow dot to generate multiple output
# files in one run (i.e. multiple -o and -T options on the command line). This
# makes dot run faster, but since only newer versions of dot (>1.8.10)
# support this, this feature is disabled by default.

DOT_MULTI_TARGETS = NO

# If the GENERATE_LEGEND tag is set to YES (the default) Doxygen will
# generate a legend page explaining the meaning of the various boxes and
# arrows in the dot generated graphs.

GENERATE_LEGEND = YES

# If the DOT_CLEANUP tag is set to YES (the default) Doxygen will
# remove the intermediate dot files that are used to generate
# the various graphs.

DOT_CLEANUP = YES

#----------------------------------------------------------
# Configuration::additions related to the search engine
#----------------------------------------------------------

# The SEARCHENGINE tag specifies whether or not a search engine should be
# used. If set to NO the values of all tags below this one will be ignored.

SEARCHENGINE = NO

Found in path(s):
  * /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
    gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/doc/Doxyfile

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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):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/dcb.h
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*
* File: socdma.h
* Purpose: Maps out structures used for DMA operations and
* exports routines.
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/dma.h
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gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/chip/phy542xx.h
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*
* File: enumgen.h
* Purpose: Defines a set of Macros for managing enums and associated
  string arrays.
* /

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/enumgen.h
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/*
 *
* $Id: phymod_definitions.h,v 1.2.2.12 2013/09/03 06:54:51 dayad Exp $
* *
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* *
* Shell diagnostics of Phymod
* *
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_util.h
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*/

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

Found in path(s):
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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ccmdma.h
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File: types.h
Purpose:
*/

Found in path(s):

$Id: port.h,v 1.120 2013/09/18 09:18:37 galrotem Exp $
This file defines common network port parameters.

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/doc/html/functions_0x63.html

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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,
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.

CBP memory consists of the tables MMU_MEMORIES1_xx, which are of varying lengths and widths, and the transaction queue memories MMU_MEMORIES2_xx.

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 *
 * File:   rx.h
Purpose: Packet Receive Reason Types shared between BCM and SOC layers
*/

Found in path(s):
*/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/rx.h
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*
* File: drv.h
* Purpose: Link Layer interface (PHY)
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alon_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phy/drv.h

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# Doxyfile 1.5.7
#$Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
#$Id$
PROJECT_NUMBER =

# The OUTPUT_DIRECTORY tag is used to specify the (relative or absolute) # base path where the generated documentation will be put. # If a relative path is entered, it will be relative to the location # where doxygen was started. If left blank the current directory will be used.

OUTPUT_DIRECTORY = .

# If the CREATE_SUBDIRS tag is set to YES, then doxygen will create # 4096 sub-directories (in 2 levels) under the output directory of each output # format and will distribute the generated files over these directories. # Enabling this option can be useful when feeding doxygen a huge amount of # source files, where putting all generated files in the same directory would # otherwise cause performance problems for the file system.

CREATE_SUBDIRS = NO

# The OUTPUT_LANGUAGE tag is used to specify the language in which all documentation generated by doxygen is written. Doxygen will use this # information to generate all constant output in the proper language. # The default language is English, other supported languages are:
# Afrikaans, Arabic, Brazilian, Catalan, Chinese, Chinese-Traditional, # Croatian, Czech, Danish, Dutch, Farsi, Finnish, French, German, Greek, # Hungarian, Italian, Japanese, Japanese-en (Japanese with English messages), # Korean, Korean-en, Lithuanian, Norwegian, Macedonian, Persian, Polish, # Portuguese, Romanian, Russian, Serbian, Serbian-Cyrilic, Slovak, Slovene, # Spanish, Swedish, and Ukrainian.

OUTPUT_LANGUAGE = English

# If the BRIEF_MEMBER_DESC tag is set to YES (the default) Doxygen will # include brief member descriptions after the members that are listed in # the file and class documentation (similar to JavaDoc). # Set to NO to disable this.

BRIEF_MEMBER_DESC = NO

# If the REPEAT_BRIEF tag is set to YES (the default) Doxygen will prepend # the brief description of a member or function before the detailed description. # Note: if both HIDE_UNDOC_MEMBERS and BRIEF_MEMBER_DESC are set to NO, the # brief descriptions will be completely suppressed.

REPEAT_BRIEF = NO

# This tag implements a quasi-intelligent brief description abbreviator # that is used to form the text in various listings. Each string
# in this list, if found as the leading text of the brief description, will be
# stripped from the text and the result after processing the whole list, is
# used as the annotated text. Otherwise, the brief description is used as-is.
# If left blank, the following values are used ("$name" is automatically
# replaced with the name of the entity): "The $name class" "The $name widget"
# "The $name file" "is" "provides" "specifies" "contains"
# "represents" "a" "an" "the"

ABBREVIATE_BRIEF =

# If the ALWAYS_DETAILED_SEC and REPEAT_BRIEF tags are both set to YES then
# Doxygen will generate a detailed section even if there is only a brief
# description.

ALWAYS_DETAILED_SEC = NO

# If the INLINE_INHERITED_MEMB tag is set to YES, doxygen will show all
# inherited members of a class in the documentation of that class as if those
# members were ordinary class members. Constructors, destructors and assignment
# operators of the base classes will not be shown.

INLINE_INHERITED_MEMB = NO

# If the FULL_PATH_NAMES tag is set to YES then Doxygen will prepend the full
# path before files name in the file list and in the header files. If set
# to NO the shortest path that makes the file name unique will be used.

FULL_PATH_NAMES = YES

# If the FULL_PATH_NAMES tag is set to YES then the STRIP_FROM_PATH tag
# can be used to strip a user-defined part of the path. Stripping is
# only done if one of the specified strings matches the left-hand part of
# the path. The tag can be used to show relative paths in the file list.
# If left blank the directory from which doxygen is run is used as the
# path to strip.

STRIP_FROM_PATH =

# The STRIP_FROM_INC_PATH tag can be used to strip a user-defined part of
# the path mentioned in the documentation of a class, which tells
# the reader which header file to include in order to use a class.
# If left blank only the name of the header file containing the class
# definition is used. Otherwise one should specify the include paths that
# are normally passed to the compiler using the -I flag.

STRIP_FROM_INC_PATH =

# If the SHORT_NAMES tag is set to YES, doxygen will generate much shorter
(but less readable) file names. This can be useful if your file systems
doesn’t support long names like on DOS, Mac, or CD-ROM.

SHORT_NAMES = NO

If the JAVADOC_AUTOBRIEF tag is set to YES then Doxygen
will interpret the first line (until the first dot) of a JavaDoc-style
comment as the brief description. If set to NO, the JavaDoc
comments will behave just like regular Qt-style comments
(thus requiring an explicit @brief command for a brief description.)

JAVADOC_AUTOBRIEF = NO

If the QT_AUTOBRIEF tag is set to YES then Doxygen will
interpret the first line (until the first dot) of a Qt-style
comment as the brief description. If set to NO, the comments
will behave just like regular Qt-style comments (thus requiring
an explicit \brief command for a brief description.)

QT_AUTOBRIEF = NO

The MULTILINE_CPP_IS_BRIEF tag can be set to YES to make Doxygen
treat a multi-line C++ special comment block (i.e. a block of //! 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 penalty.
# If the system has enough physical memory increasing the cache will improve the
# performance by keeping more symbols in memory. Note that the value works on
# a logarithmic scale so increasing the size by one will roughly double the
# memory usage. The cache size is given by this formula:
# \(2^{(16+\text{SYMBOL\_CACHE\_SIZE})}\). The valid range is 0..9, the default is 0,
# corresponding to a cache size of \(2^{16} = 65536\) symbols

\text{SYMBOL\_CACHE\_SIZE} = 0

#----------------------------------------------
# Build related configuration options
#----------------------------------------------

# If the \text{EXTRACT\_ALL} tag is set to \text{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 \text{EXTRACT\_PRIVATE} and \text{EXTRACT\_STATIC} tags are set to \text{YES}

\text{EXTRACT\_ALL} = \text{YES}

# If the \text{EXTRACT\_PRIVATE} tag is set to \text{YES} all private members of a class
# will be included in the documentation.

\text{EXTRACT\_PRIVATE} = \text{NO}

# If the \text{EXTRACT\_STATIC} tag is set to \text{YES} all static members of a file
# will be included in the documentation.

\text{EXTRACT\_STATIC} = \text{NO}

# If the \text{EXTRACT\_LOCAL\_CLASSES} tag is set to \text{YES} classes (and structs)
# defined locally in source files will be included in the documentation.
# If set to \text{NO} only classes defined in header files are included.

\text{EXTRACT\_LOCAL\_CLASSES} = \text{YES}

# This flag is only useful for Objective-C code. When set to \text{YES} local
# methods, which are defined in the implementation section but not in
# the interface are included in the documentation.
# If set to \text{NO} (the default) only methods in the interface are included.

\text{EXTRACT\_LOCAL\_METHODS} = \text{NO}

# If this flag is set to \text{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.

\text{EXTRACT\_ANON\_NSPACES} = \text{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 `ifdef` 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 and 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_NOPARAMDOC option can be enabled 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 patterns (like *.cpp
# and *.h) to filter out the source-files in the directories. If left
# blank the following patterns are tested:

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
EXAMPLE_PATH =

EXAMPLE_PATTERNS =

EXAMPLE_RECURSIVE = NO

IMAGE_PATH = .

INPUT_FILTER =

FILTER_PATTERNS =

FILTER_SOURCE_FILES =

# directories that contain example code fragments that are included (see # the \include command).

# 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.

# 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.

# 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).

# 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.

# 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.

# 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.

```
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.hlp.

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.
# 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

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

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 used 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

ENABLE_PREPROCESSING = YES

# 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.

MACRO_EXPANSION      = 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.

EXPAND_ONLY_PREDEF    = 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.

SEARCH_INCLUDES      = 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.
# 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

# 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

CLASS_DIAGRAMS = YES

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 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_GRAPHDEPTH.

DOT_GRAPH_MAX_NODES = 50

# The MAX_DOT_GRAPHDEPTH 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

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# code bases. Also note that the size of a graph can be further restricted by
# DOT_GRAPH_MAX_NODES. Using a depth of 0 means no depth restriction.

MAX_DOT_GRAPH_DEPTH = 0

# Set the DOT_TRANSPARENT tag to YES to generate images with a transparent
# background. This is disabled by default, because dot on Windows does not
# seem to support this out of the box. Warning: Depending on the platform used,
# enabling this option may lead to badly anti-aliased labels on the edges of
# a graph (i.e. they become hard to read).

DOT_TRANSPARENT = NO

# Set the DOT_MULTI_TARGETS tag to YES allow dot to generate multiple output
# files in one run (i.e. multiple -o and -T options on the command line). This
# makes dot run faster, but since only newer versions of dot (>1.8.10)
# support this, this feature is disabled by default.

DOT_MULTI_TARGETS = NO

# If the GENERATE_LEGEND tag is set to YES (the default) Doxygen will
# generate a legend page explaining the meaning of the various boxes and
# arrows in the dot generated graphs.

GENERATE_LEGEND = YES

# If the DOT_CLEANUP tag is set to YES (the default) Doxygen will
# remove the intermediate dot files that are used to generate
# the various graphs.

DOT_CLEANUP = YES

# Configuration::additions related to the search engine
#-------------------------------------------------------------

# The SEARCHENGINE tag specifies whether or not a search engine should be
# used. If set to NO the values of all tags below this one will be ignored.

SEARCHENGINE = NO

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/Doxyfile
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* *
* This file contains multicast definitions.
*/

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 * $Id: phy542xx_regdefs.h,v 1.14 2013/06/19 02:32:30 mpall Exp $
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 */

Found in path(s):
*/

/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/pkt.h

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This header file defines packet formats for Ethernet and Broadcom stacking.

Found in path(s):

```
/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/enet.h
```

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```
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*
* File:    il.h
* Purpose: Link Layer interface (MAC and PHY)
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand Alone_APIs_v_1_2/SHWK 1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ll.h
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* 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.
*/

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/sync.h
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* $Id$
* /

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

Found in path(s):
*/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
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  *
  * Basic type definitions.
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_types.h

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File: mos_msg_common.h

Found in path(s):
/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/shared/mos_msg_common.h

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This file defines common network port modes.

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*/

Found in path(s):
/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/physmod/chip/seahawks/tier1/legacy/afux/shared/port_ability.h

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* Broadcom System Log (bSL)
*
* Defines for INTERNAL usage only.
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gz/Seahawks_Stand_Alone_APIs_v_1_2/imacsec/Integration/Adapter_EIP160/src/common/adapter_in-
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* File: allenum.h
* Purpose: Enumerated types for fields, memories, registers
* 
*/

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
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<tr><td class="entry"><a class="el" href="structbcm__plp__base__t__secy__sa__i__t.html#d1e129">confidentiality_of
Found in path(s):
* /opt/cola/permits/1238841148_1647486907_56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/html/structbcm__plp__base__t__secy__sa__i__t-members.html
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*  
* ISM management routines  
*/

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-  
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ism.h  
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* * *

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_common_defines.h

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

Found in path(s):
*/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alones_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/memory.h

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier2/phy542xx_diagnostics.c

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

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*
* File:     phynull.h
* Purpose:
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/phynull.h
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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/c_hwpal_device_umdevxs.h
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 * 
 * This file defines common PHY register definition.
 * 
 * Its contents are not used directly by applications; it is used only
 * by header files of parent APIs which need to define PHY register definition.
 */
/**

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* *
* */

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*
* Driver utility routines
*/

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
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/*
 * $Id: phy542xx_int.h,v 1.6 2013/04/13 00:34:41 majotk Exp $
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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 ($op eq "-rm") { mktool_rmi(@ARGV); last SWITCH; }
    if ($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'un");
exit 0;

# # mktool_execute
#
# Executes a command, returns exit status.
# Performs token special translation before execution.
#

sub mktool_execute
{
    my $token = shift;
    my @cmds = @_;

    # printf("mktool_execute: token = '$token\n\n");
    foreach $cmd (@cmds)
    {
        # printf("mktool_execute: cmd = '$cmd\n\n");
        $cmd =~ s/##/$token/g;
        if($cmd =~ /^-p/) { $cmd =~ /^-p/; printf("$cmd\n\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
sub mktool_rm
{
  my($f);

  foreach $f (@_) {
    eval { rmtree($f) };
    if ($@) {
      die "$prog $op: failed to remove $f: $@\n";
    }
  }
}

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 $@)" "$(@)"
sub mktool_makedep
{
  my ($source, $target, $cmd) = @_;
  my $result = `$cmd`;
  if(!$?)
  {
    $result =~ s/^#.*
//g; # some makedeps produce comments
    $result =~ s/
+$//; # toss trailing newlines

    open (TARGET, ">$target") ||
    die("$prog $op: cannot open "$target" for writing: $!\n");
    print TARGET "$source \
${BLDDIR}/$result
";
    close(TARGET);
  }
}

sub mktool_echo
{
  print "@_\n";
}

sub mktool_beep
{
  -t STDOUT && defined $ENV{MAKEBEEP} && print "\007";
}

Found in path(s):
  /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/seahawks_reference_app/Makefile

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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

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iver160_init_ext.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/common/adapter_in
terrupts.c
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/common/adapter_in
interrupts_ext.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/vm.h
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* 
* File: cmic.h
* Purpose: Maps out structures used for CMIC operations and
* exports routines and constants.
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/cmic.h
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 * $Id$
 */

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alonе_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy542xx_diag_seq.c

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

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
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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):
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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_base_t_common_sec_defines.h

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

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

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gz/Seahawks_Stand_Alpes_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/adapter_xtsecy.h
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gz/Seahawks_Stand_Alpes_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip160_secy.c
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alpes_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/incl/eip160_types.h

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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/bcm_pm_if/bcm_pm_if_api.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_pm_if_api.h
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* $Id: phy_mac_ctrl.h,v 1.4 2011/05/22 23:36:07 iakramov Exp $
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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy_mac_ctrl.h
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* 
* File: memregs.h
* Purpose: Memory entry declarations, memory and register macros
* */
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* /

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_reg.h

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Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_sa_builder_macsec.h

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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/robo_fp.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/drv_if.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/bslenum.h
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*
* This file defines common network port modes.
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define port modes.
*/

Found in path(s):
*/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIS_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/timesync.h

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* *
* File:       defs.h
* Purpose:    Basic defines for system and chips
*              This should be included before all other SOC include
*              files to make sure BCM_xxxx is defined for them.
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*/

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gz/Seahawks_Stand_Alon_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.

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alon_APIs_v_1_2/SHWK_1_2/doc/html/structbcm__plp__base__t__secy__sa__e__t.html
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*
* File: phyecd.c
* Purpose: PHY ECD routines
*
*/

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phyecd.c
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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/switch.h
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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/core/phymod_acc.c
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/core/phymod_debug.c
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod_tsc.iblk.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_debug.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_acc.h

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*
* File: phydefs.h
* Purpose: Basic defines for PHYs.
* This should be included after all other SOC include files and
* before all other PHY include files.
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/phydefs.h

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$Id$
*/

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_pm_if_doc.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/bcm_pm_if/bcm_pm_if_doc.h

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

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File: memacc.h
Purpose: Memory accessor declarations

Found in path(s):
/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar.gz/Seahawks_Stand_Alene_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/mcm/memacc.h

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*
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*/

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*/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/portmode.h

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

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
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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 bcm*.i files contain definitions of each block and port
* in the associated chip. The structures used in those files
* are defined here. They are used to build internal use data
* structures defined in soc/drv.h
*/

Found in path(s):
/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/chip.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):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Strain_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/cs_adapter.h
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 */

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  *
  */

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gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/core/phymod_diagnostics_dispatch.c
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/core/phymod_dispatch.c

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gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/types.h
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*/

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phy/phymod_ctr
l.h
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<tr class="memitem:aa2c876827f8a8dfa4c09a43182963529"><td class="memItemLeft" align="right"
valign="top">unsigned char&#160;</td><td class="memItemRight" valign="bottom"><a class="el"
href="structbcm__plp__base__t__secy__sa__ca__t.html#aa2c876827f8a8dfa4c09a43182963529">confidentiality_o</a></td></tr>
<p>true - enable confidentiality protection (AES-GCM/CTR operation)
false - disable confidentiality protection (AES-GMAC operation) </p>

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/html/structbcm__plp__base__t__secy__sa__ca__t.html
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Found in path(s):
/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-targz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/common/adapter_driver165_init.c

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*
* Its contents are not used directly by applications; it is used only
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*
* Broadcom System Log (bSL)
*
* BSL data types and macros
*/

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 * $Id$
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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_plp_base_t_sec_doc.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/bcm_plp_base_t_sec/bcm_plp_base_t_sec_sdk_doc.h

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* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/cm.h
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*
* File: phyctrl.h
* Purpose: Data structures and function prototypes for PHY configuration.
* Note: This header file is for PHY driver module. Should not include
* this header file in SOC or BCM layers except
* soc/common/phyctrl.c
*/

Found in path(s):
*/opt/cola/permits/1238841148_164746907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phy/phyctrl.h
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File: thread.h
Purpose: SAL thread definitions
*/

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/opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/thread.h

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*
* File:     time.h
* Purpose:   SAL time definitions
*
* Microsecond Time Routines
*
* The main clock abstraction is sal_usec_t, an unsigned 32-bit
* counter that increments every microsecond and wraps around every
* 4294.967296 seconds (~71.5 minutes)
*/

Found in path(s):
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/core/time.h
* /opt/cola/permits/1238841148_1647486907.56/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/time.h
1.269 numactl 2.0.14+git0+dd6de072c9 r0

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@end enumerate

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1.271 python3-setuptools-wheel 39.2.0

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1.273 iperf2 2.0.13 r0

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1.278 netkit-telnet 0.17 r0

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1.279 bash4 4.2 r6

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From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from 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)
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 UniversityInternet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Hi. I snagged some of your bash functions from your home directory on
the FSF machines (naughty, I know), and I was wondering if you'd let
me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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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
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1.281 json-c 0.13.1

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1.283 rsync 3.2.3 r0

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
  *interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
  *and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
  *loss of link, and correctly re-enable PHY when link is
  *re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
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M. Welsh, 6 July 1996

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
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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 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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- libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
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  http://code.google.com/p/libdnet/
- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
  http://www.pcre.org/
- liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
  http://www.lua.org/
- OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
  http://www.openssl.org/
o LIBLINEAR. Used for IPv6 OS classification.
   http://www.csie.ntu.edu.tw/~cjlin/liblinear/
o libsvn. The Subversion library, used by the updater program

On Windows only, Nmap uses:
o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap,
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   http://www.winpcap.org/

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o Python. The binary distributions of Nmap include a Python interpreter
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The Mac OS binary packages also include:
- Various X.org libraries. These were built using MacPorts.
  http://www.x.org/ http://www.macports.org/

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Written by: Philip Hazel
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
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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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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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Version 2, June 1991

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1.309 pexpect 4.8.0 r0

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When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
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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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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 another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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

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

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

That's all there is to it!

1.313 basesystem 11

1.313.1 Available under license:

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

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

Summary: The skeleton package which defines a simple % {distroname} system
Name: basesystem
Version: 11
Release: 5% {?dist}
License: Public Domain
Group: System Environment/Base
Requires(pre): setup filesystem
BuildArch: noarch

%description
Basesystem defines the components of a basic %{distname} 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 Vasík <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 Vasík <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):
* /opt/cola/permits/1267355348_1644279866.18/0/basesystem-11-5.el8.src.rpm-cosi-expand-archive-kpkKcrr3/basesystem.spec

1.314 libuser 0.62
1.314.1 Available under license:
GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991
Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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freedom to share and change it. By contrast, the GNU General Public
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free software--to make sure the software is free for all its users.

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other libraries whose authors decide to use it. You can use it for
your libraries, too.

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price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
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if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

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

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

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

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library. If the library is modified by someone else and passed on, we
want its recipients to know that what they have is not the original
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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1.318 libssh2 1.9.0 r0

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1.320 zlib 1.2.7

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1.321 makedumpfile 1.6.9 r0

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1.322 p11-kit 0.23.21

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1.323 python36 3.6.8

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.335 openssh-clients 7.4p1

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* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
* Jan-Pieter Cornet ( johnpc ) - 2012-03-23 03:25:52 PDT
* chrysn@fsfe.org
* dfberger@users.noreply.github.com
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1.337 bzip2-libs 1.0.6

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

1.338 pam 1.3.1

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
-----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
------------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
  id=123
  room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
```
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
    id is 123
    room is 321
    house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/),

---

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compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /opt/cola/permits/1294739938_1648247859.35/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/README.md
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ASN.1 library for Python
========================
.. toctree::
:maxdepth: 1

Abstract Syntax Notation One (ASN.1) [http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` [https://pypi.org/project/pyasn1/](https://pypi.org/project/pyasn1/) library implements ASN.1 support in pure-Python.

What is ASN.1
--------------
ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.
ASN.1 started its life over 30 years ago as a serialisation mechanism for the first
electronic mail (known as X.400). Later on if was split off the e-mail application
and became a stand-alone tech still being actively supported by its designers
and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the
first, unsuccessful, version of the Internet. You can read many interesting
`discussions <https://news.ycombinator.com/item?id=8871453>`__ on that topic.

In the following years, generations of software engineers tackled the serialisation
problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-
buffers/>`__ or `FlatBuffers <https://google.github.io/flatbuffers/>`__, for example.
Interestingly, many new takes on binary protocol design do not depart
far from ASN.1 from technical perspective. It's more of a matter of striking
a balance between processing overhead, wire format overhead and human
readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types
  (integers, bits, strings, arrays and records) that can be used for describing
  arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a
  series of octets for storage or transmission over the wire as well as
  recovered back into their structured form. The system is fully agnostic
to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms
  of a schema language for ASN.1 compiler to turn it into platform-specific
  implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely
adopted for many uses. To give you an example, these technologies
use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

/download

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.
License
--------

The PyASN1 software is distributed under 2-clause BSD License.

Getting help
-------------


Books on ASN.1
---------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.
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* /opt/cola/permits/1294739938_1648247859.35/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/docs/source/contents.rst

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1.347 marvell_cpss 10.3.4

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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
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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.

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

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

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.
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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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on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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
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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 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:
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.

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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.

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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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produce the work, or an object code interpreter used to run it.

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

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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.

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product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
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Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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

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1.354 libstdc++ 8.4.1
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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 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
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(12) Jon Beniston (only lm32-* targets)

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Preamble
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1.356 kmod 27 r0

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1.357 openssh 8.3p1 r0

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ANNEX 1 TO OCTEON SDK LICENSE AGREEMENT

OCTEON SDK LICENSE TYPES

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.362 jinja2 2.11.2 r0
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```python
import io
import re
from setuptools import find_packages
from setuptools import setup

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

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
```
"Documentation": "https://jinja.palletsprojects.com/",
"Code": "https://github.com/pallets/jinja",
"Issue tracker": "https://github.com/pallets/jinja/issues",
},
license="BSD-3-Clause",
author="Armin Ronacher",
author_email="armin.ronacher@active-4.com",
maintainer="Pallets",
maintainer_email="contact@palletsprojects.com",
description="A very fast and expressive template engine.",
long_description=readme,
classifiers=[
 "Development Status :: 5 - Production/Stable",
 "Environment :: Web Environment",
 "Intended Audience :: Developers",
 "License :: OSI Approved :: BSD License",
 "Operating System :: OS Independent",
 "Programming Language :: Python",
 "Programming Language :: Python :: 2",
 "Programming Language :: Python :: 2.7",
 "Programming Language :: Python :: 3",
 "Programming Language :: Python :: 3.5",
 "Programming Language :: Python :: 3.6",
 "Programming Language :: Python :: 3.7",
 "Programming Language :: Python :: 3.8",
 "Programming Language :: Python :: Implementation :: CPython",
 "Programming Language :: Python :: Implementation :: PyPy",
 "Topic :: Internet :: WWW/HTTP :: Dynamic Content",
 "Topic :: Software Development :: Libraries :: Python Modules",
 "Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={": : "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !3.1.*, !3.2.*, !3.3.*, !3.4.*",
install_requires=["MarkupSafe>0.23"],
extras_require={"i18n" : ["Babel>0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},

Found in path(s):
* /opt/cola/permits/1294739281_1648246282.05/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py
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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
Summary: A very fast and expressive template engine.
Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document. It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- i18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

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

Installing

----------

Install and update using `pip`:

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

In A Nutshell
-------------

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

Links
-----
- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*
1.363 python-requests 2.24.0 r0

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1.364 libtirpc 1.1.4

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

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Ackeret, Matt
Adler, Mark
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
Miller, Dworkin
Nieuema, Jeff
Nikitsen, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
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Peron, Christian S.J.
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de Raadt, Theo
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Reid, Steve
Richards, Matt
Rossom, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
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Sato, Yuichi
Sánchez, 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.
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
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
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```

## APACHE2

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* /opt/cola/permits/1294739539_1648246950.6/0/pathlib2-2-3-5-1-tar-gz/pathlib2-2.3.5/pathlib2/__/init__/py
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Metadata-Version: 1.1
Name: pathlib2
Version: 2.3.5
Summary: Object-oriented filesystem paths
Home-page: https://github.com/mcmtroffaes/pathlib2
Author: Matthias C. M. Troffaes
Author-email: matthias.troffaes@gmail.com
License: MIT
Description: The `old pathlib <https://bitbucket.org/pitrou/pathlib>`_ module on bitbucket is in bugfix-only mode.
The goal of pathlib2 is to provide a backport of
`standard pathlib <http://docs.python.org/dev/library/pathlib.html>`_ module which tracks the standard library module,
so all the newest features of the standard pathlib can be used also on older Python versions.

Download
--------

Standalone releases are available on PyPI:
http://pypi.python.org/pypi/pathlib2/

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

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

Documentation
-------------

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

Known Issues
------------

For historic reasons, pathlib2 still uses bytes to represent file paths internally. Unfortunately, on Windows with Python 2.7, the file system encoder (``mchb``) has only poor support for non-ascii characters, and can silently replace non-ascii characters without warning.

For example, ``u''.encode(sys.getfilesystemencoding())`` results in ``????`` which is obviously completely useless.

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

.. |travis| image:: https://travis-ci.org/mcmtroffaes/pathlib2.png?branch=develop
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* S-Channel Message: data structure used by firmware to transport
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*/

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* File: phyconfig.h

* Purpose: Set default configuration of the PHYs.

*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/phyconfig.h
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*  
* File:    memacc.h
* Purpose: Memory accessor declarations
*  
*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/mcm/memacc.h

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gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/rx.h
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*
* File: alloc.h
* Purpose: Memory allocation
*/

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  gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/alloc.h
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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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  gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/incl/api_xtsecy_types.h
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/bcm_plp_base_t_sec/bcm_plp_base_t_sec_sdk_doc.h

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_plp_base_t_sec_common.c
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/bcm_plp_base_t_sec/bcm_plp_base_t_sec_common.c

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*
* General utility routines
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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/util.h
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LI><OBJECT type="text/sitemap" value="structbcm__plp__base__t__secy__sa__ca__t.html#aa2c876827f8a8d2a4c09a43182963529">-param name="Local" value="confidentiality_offset""></OBJECT>
<LI><OBJECT type="text/sitemap" value="structbcm__plp__base__t__secy__sa__e__t.html#a6f78468eb0d666ea2888df9544b9bc7">-param name="Local" value="confidentiality_offset""></OBJECT>
<LI><OBJECT type="text/sitemap" value="structbcm__plp__base__t__secy__sa__i__t.html#aa2c876827f8a8d2a4c09a43182963529">-param name="Local" value="confidentiality_offset""></OBJECT>

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* $Id$
*/

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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/seahawks_reference_app/seahawks_common.h
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/seahawks_reference_app/Makefile
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/incl/eip160_rules.h
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*
* File: macipadr.h
* Purpose: Typedefs for MAC and IP addresses
*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/macipadr.h
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/core/phymod_diagnostics_dispatch.c
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/phy542xx_dispatch.c
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-targ-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/common/adapter_all-
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 *
 * $Id: phymod_definitions.h,v 1.2.2.12 2013/09/03 06:54:51 dayad Exp $
 *
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 *
 * Shell diagnostics of Phymod
 *
 */

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* File: phynull.h
* Purpose:
*/

//

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*/opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/phynull.h
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$Id$
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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 (" ")

# Doxygen encoding
DOXYFILE_ENCODING = UTF-8

# Project Name
PROJECT_NAME = PHYMod

# Project Number
PROJECT_NUMBER = 1.1

# Output Directory
OUTPUT_DIRECTORY = .

# Project related configuration options
CREATE_SUBDIRS         = NO

OUTPUT_LANGUAGE        = English

BRIEF_MEMBER_DESC      = NO

REPEAT_BRIEF           = NO

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 DISTRIBUT_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.

DISTRIBUT_GROUP_DOC  = NO

# Set the SUBGROUPING tag to YES (the default) to allow class member groups of
# the same type (for instance a group of public functions) to be put as a
# subgroup of that type (e.g. under the Public Functions section). Set it to
# NO to prevent subgrouping. Alternatively, this can be done per class using
# the \nosubgrouping command.

SUBGROUPING  = YES

# When TYPEDEF_HIDES_STRUCT is enabled, a typedef of a struct, union, or enum
# is documented as struct, union, or enum with the name of the typedef. So
# typedef struct TypeS {} TypeT, will appear in the documentation as a struct
# with name TypeT. When disabled the typedef will appear as a member of a file,
# namespace, or class. And the struct will be named TypeS. This can typically
# be useful for C code in case the coding convention dictates that all compound
# types are typedef'ed and only the typedef is referenced, never the tag name.

TYPEDEF_HIDES_STRUCT  = NO

# The SYMBOL_CACHE_SIZE determines the size of the internal cache use to
determine which symbols to keep in memory and which to flush to disk.
# When the cache is full, less often used symbols will be written to disk.
# For small to medium size projects (<1000 input files) the default value is
# probably good enough. For larger projects a too small cache size can cause
doxygen to be busy swapping symbols to and from disk most of the time
# causing a significant performance penalty.
# If the system has enough physical memory increasing the cache will improve the
# performance by keeping more symbols in memory. Note that the value works on
# a logarithmic scale so increasing the size by one will roughly double the
# memory usage. The cache size is given by this formula:
# 2^(16+SYMBOL_CACHE_SIZE). The valid range is 0..9, the default is 0,
# corresponding to a cache size of 2^16 = 65536 symbols

SYMBOL_CACHE_SIZE  = 0

#---------------------------------------------------------------
# Build related configuration options
#---------------------------------------------------------------
# If the EXTRACT_ALL tag is set to YES doxygen will assume all entities in 
# documentation are documented, even if no documentation was available. 
# Private class members and static file members will be hidden unless 
# the EXTRACT_PRIVATE and EXTRACT_STATIC tags are set to YES

EXTRACT_ALL = YES

# If the EXTRACT_PRIVATE tag is set to YES all private members of a class 
# will be included in the documentation.

EXTRACT_PRIVATE = NO

# If the EXTRACT_STATIC tag is set to YES all static members of a file 
# will be included in the documentation.

EXTRACT_STATIC = NO

# If the EXTRACT_LOCAL_CLASSES tag is set to YES classes (and structs) 
# defined locally in source files will be included in the documentation. 
# If set to NO only classes defined in header files are included.

EXTRACT_LOCAL_CLASSES = YES

# This flag is only useful for Objective-C code. When set to YES local 
# methods, which are defined in the implementation section but not in 
# the interface are included in the documentation. 
# If set to NO (the default) only methods in the interface are included.

EXTRACT_LOCAL_METHODS = NO

# If this flag is set to YES, the members of anonymous namespaces will be 
# extracted and appear in the documentation as a namespace called 
# 'anonymous_namespace{file}', where file will be replaced with the base 
# name of the file that contains the anonymous namespace. By default 
# anonymous namespace are hidden.

EXTRACT_ANON_NSPACES = NO

# If the HIDE_UNDOC_MEMBERS tag is set to YES, Doxygen will hide all 
# undocumented members of documented classes, files or namespaces. 
# If set to NO (the default) these members will be included in the 
# various overviews, but no documentation section is generated. 
# This option has no effect if EXTRACT_ALL is enabled.

HIDE_UNDOC_MEMBERS = YES

# If the HIDE_UNDOC_CLASSES tag is set to YES, Doxygen will hide all
# undocumented classes that are normally visible in the class hierarchy.
# If set to NO (the default) these classes will be included in the various
# overviews. This option has no effect if EXTRACT_ALL is enabled.

HIDE_UNDOC_CLASSES = YES

# If the HIDE_FRIEND_COMPOUNDS tag is set to YES, Doxygen will hide all
# friend (class|struct|union) declarations.
# If set to NO (the default) these declarations will be included in the
# documentation.

HIDE_FRIEND_COMPOUNDS = YES

# If the HIDE_IN_BODY_DOCS tag is set to YES, Doxygen will hide any
# documentation blocks found inside the body of a function.
# If set to NO (the default) these blocks will be appended to the
# function's detailed documentation block.

HIDE_IN_BODY_DOCS = YES

# The INTERNAL_DOCS tag determines if documentation
# that is typed after a \internal command is included. If the tag is set
# to NO (the default) then the documentation will be excluded.
# Set it to YES to include the internal documentation.

INTERNAL_DOCS = NO

# If the CASE_SENSE_NAMES tag is set to NO then Doxygen will only generate
# file names in lower-case letters. If set to YES upper-case letters are also
# allowed. This is useful if you have classes or files whose names only differ
# in case and if your file system supports case sensitive file names. Windows
# and Mac users are advised to set this option to NO.

CASE_SENSE_NAMES = YES

# If the HIDE_SCOPE_NAMES tag is set to NO (the default) then Doxygen
# will show members with their full class and namespace scopes in the
# documentation. If set to YES the scope will be hidden.

HIDE_SCOPE_NAMES = NO

# If the SHOW_INCLUDE_FILES tag is set to YES (the default) then Doxygen
# will put a list of the files that are included by a file in the documentation
# of that file.

SHOW_INCLUDE_FILES = NO

# If the INLINE_INFO tag is set to YES (the default) then a tag [inline]
# is inserted in the documentation for inline members.

INLINE_INFO = YES

# If the SORT_MEMBER_DOCS tag is set to YES (the default) then doxygen
# will sort the (detailed) documentation of file and class members
# alphabetically by member name. If set to NO the members will appear in
# declaration order.

SORT_MEMBER_DOCS = NO

# If the SORT_BRIEF_DOCS tag is set to YES then doxygen will sort the
# brief documentation of file, namespace and class members alphabetically
# by member name. If set to NO (the default) the members will appear in
# declaration order.

SORT_BRIEF_DOCS = NO

# If the SORT_GROUP_NAMES tag is set to YES then doxygen will sort the
# hierarchy of group names into alphabetical order. If set to NO (the default)
# the group names will appear in their defined order.

SORT_GROUP_NAMES = NO

# If the SORT_BY_SCOPE_NAME tag is set to YES, the class list will be
# sorted by fully-qualified names, including namespaces. If set to
# NO (the default), the class list will be sorted only by class name,
# not including the namespace part.
# Note: This option is not very useful if HIDE_SCOPE_NAMES is set to YES.
# Note: This option applies only to the class list, not to the
# alphabetical list.

SORT_BY_SCOPE_NAME = NO

# The GENERATE_TODOLIST tag can be used to enable (YES) or
# disable (NO) the todo list. This list is created by putting \todo
# commands in the documentation.

GENERATE_TODOLIST = YES

# The GENERATE_TESTLIST tag can be used to enable (YES) or
# disable (NO) the test list. This list is created by putting \test
# commands in the documentation.

GENERATE_TESTLIST = YES

# The GENERATE_BUGLIST tag can be used to enable (YES) or
# disable (NO) the bug list. This list is created by putting \bug
# commands in the documentation.

GENERATE_BUGLIST = YES

# The GENERATE_DEPRECATEDLIST tag can be used to enable (YES) or disable (NO) the deprecated list. This list is created by putting \deprecated commands in the documentation.

GENERATE_DEPRECATEDLIST = YES

# The ENABLED_SECTIONS tag can be used to enable conditional documentation sections, marked by \if sectionname ... \endif.

ENABLED_SECTIONS =

# The MAX_INITIALIZER_LINES tag determines the maximum number of lines the initial value of a variable or define consists of for it to appear in the documentation. If the initializer consists of more lines than specified here it will be hidden. Use a value of 0 to hide initializers completely.
# The appearance of the initializer of individual variables and defines in the documentation can be controlled using \showinitializer or \hideinitializer command in the documentation regardless of this setting.

MAX_INITIALIZER_LINES = 30

# Set the SHOW_USED_FILES tag to NO to disable the list of files generated at the bottom of the documentation of classes and structs. If set to YES the list will mention the files that were used to generate the documentation.

SHOW_USED_FILES = NO

# If the sources in your project are distributed over multiple directories then setting the SHOW_DIRECTORIES tag to YES will show the directory hierarchy in the documentation. The default is NO.

SHOW_DIRECTORIES = NO

# Set the SHOW_FILES tag to NO to disable the generation of the Files page.
# This will remove the Files entry from the Quick Index and from the Folder Tree View (if specified). The default is YES.

SHOW_FILES = YES

# Set the SHOW_NAMESPACES tag to NO to disable the generation of the Namespaces page. This will remove the Namespaces entry from the Quick Index and from the Folder Tree View (if specified). The default is YES.

SHOW_NAMESPACES = YES
# The FILE_VERSION_FILTER tag can be used to specify a program or script that
doxygen should invoke to get the current version for each file (typically from
the version control system). Doxygen will invoke the program by executing (via
popen()) the command `<command> <input-file>`, where `<command>` is the value of
the FILE_VERSION_FILTER tag, and `<input-file>` is the name of an input file
provided by doxygen. Whatever the program writes to standard output
is used as the file version. See the manual for examples.

FILE_VERSION_FILTER =

# The LAYOUT_FILE tag can be used to specify a layout file which will be parsed
by doxygen. The layout file controls the global structure of the generated
output files in an output format independent way. 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
genrated 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 enabled 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:

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.

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.
# 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

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

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
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.)
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.
PERLMODPRETTY = 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 file included by the same
# Makefile don't overwrite each other's variables.

PERLMODMAKEVARPREFIX =

#--------------------------------------------------------------------------------------
# Configuration options related to the preprocessor
#--------------------------------------------------------------------------------------

# If the ENABLEPREPROCESSING tag is set to YES (the default) Doxygen will
# evaluate all C-preprocessor directives found in the sources and include
# files.
ENABLEPREPROCESSING = 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 EXPANDONLYPREDEF to YES.
MACRO_EXPANSION = YES

# If the EXPANDONLYPREDEF and MACRO_EXPANSION tags are both set to YES
# then the macro expansion is limited to the macros specified with the
# PREDEFINED and EXPANDASDEFINED tags.
EXPANDONLYPREDEF = YES

# If the SEARCH_INCLUDES tag is set to YES (the default) the includes files
# in the INCLUDE_PATH (see below) will be search if a #include is found.
SEARCH_INCLUDES = YES

# The INCLUDE_PATH tag can be used to specify one or more directories that
# contain include files that are not input files but should be processed by
# the preprocessor.
INCLUDE_PATH =

# You can use the INCLUDE_FILE_PATTERNS tag to specify one or more wildcard
# patterns (like *.h and *.hpp) to filter out the header-files in the
# directories. If left blank, the patterns specified with FILE_PATTERNS will
# be used.
INCLUDE_FILE PATTERNS =

# The PREDEFINED tag can be used to specify one or more macro names that
# are defined before the preprocessor is started (similar to the -D option of
# gcc). The argument of the tag is a list of macros of the form: name
# or name=definition (no spaces). If the definition and the = are
# omitted =1 is assumed. To prevent a macro definition from being
# undefined via #undef or recursively expanded use the := operator
# instead of the = operator.

PREDEFINED = INCLUDE_XGXS_TEMOD PHYMOD_DEBUG_ERROR
PHYMOD_DEBUG_VERBOSE PHYMOD_USLEEP PHYMOD_SLEEP PHYMOD_MALLOC
PHYMOD_FREE PHYMOD_MEMSET PHYMOD_MEMCPY PHYMOD_STRCMP

# If the MACRO_EXPANSION and EXPAND_ONLY_PREDEF tags are set to YES then
# this tag can be used to specify a list of macro names that should be expanded.
# The macro definition that is found in the sources will be used.
# Use the PREDEFINED tag if you want to use a different macro definition.

EXPAND_AS_DEFINED =

# If the SKIP_FUNCTION_MACROS tag is set to YES (the default) then
# doxygen's preprocessor will remove all function-like macros that are alone
# on a line, have an all uppercase name, and do not end with a semicolon. Such
# function macros are typically used for boiler-plate code, and will confuse
# the parser if not removed.

SKIP_FUNCTION_MACROS = YES

#---------------------------------------------------------------
# Configuration::additions related to external references
#---------------------------------------------------------------

# The TAGFILES option can be used to specify one or more tagfiles.
# Optionally an initial location of the external documentation
# can be added for each tagfile. The format of a tag file without
# this location is as follows:
# TAGFILES = file1 file2 ...
# Adding location for the tag files is done as follows:
# TAGFILES = file1=loc1 "file2 = loc2" ...
# where "loc1" and "loc2" can be relative or absolute paths or
# URLs. If a location is present for each tag, the installdox tool
# does not have to be run to correct the links.
# Note that each tag file must have a unique name
# (where the name does NOT include the path)
# If a tag file is not located in the directory in which doxygen
# is run, you must also specify the path to the tagfile here.
TAGFILES =

# When a file name is specified after GENERATE_TAGFILE, doxygen will create
# a tag file that is based on the input files it reads.

GENERATE_TAGFILE =

# If the ALLEXTERNALS tag is set to YES all external classes will be listed
# in the class index. If set to NO only the inherited external classes
# will be listed.

ALLEXTERNALS = NO

# If the EXTERNAL_GROUPS tag is set to YES all external groups will be listed
# in the modules index. If set to NO, only the current project's groups will
# be listed.

EXTERNAL_GROUPS = YES

# The PERL_PATH should be the absolute path and name of the perl script
# interpreter (i.e. the result of `which perl').

PERL_PATH = /usr/bin/perl

# Configuration options related to the dot tool

# If the CLASS_DIAGRAMS tag is set to YES (the default) Doxygen will
# generate a inheritance diagram (in HTML, RTF and LaTeX) for classes with base
# or super classes. Setting the tag to NO turns the diagrams off. Note that
# this option is superseded by the HAVE_DOT option below. This is only a
# fallback. It is recommended to install and use dot, since it yields more
# powerful graphs.

CLASS_DIAGRAMS = YES

# You can define message sequence charts within doxygen comments using the \msc
# command. Doxygen will then run the mscgen tool (see
# http://www.mcternan.me.uk/mscgen/) to produce the chart and insert it in the
# documentation. The MSCGEN_PATH tag allows you to specify the directory where
# the mscgen tool resides. If left empty the tool is assumed to be found in the
# default search path.

MSCGEN_PATH =

# If set to YES, the inheritance and collaboration graphs will hide
# inheritance and usage relations if the target is undocumented
# or is not a class.

HIDE_UNDOC_RELATIONS = YES

# If you set the HAVE_DOT tag to YES then doxygen will assume the dot tool is
# available from the path. This tool is part of Graphviz, a graph visualization
# toolkit from AT&T and Lucent Bell Labs. The other options in this section
# have no effect if this option is set to NO (the default)

HAVE_DOT = YES

# By default doxygen will write a font called FreeSans.ttf to the output
# directory and reference it in all dot files that doxygen generates. This
# font does not include all possible unicode characters however, so when you need
# these (or just want a differently looking font) you can specify the font name
# using DOT_FONTNAME. You need need to make sure dot is able to find the font,
# which can be done by putting it in a standard location or by setting the
# DOTFONTPATH environment variable or by setting DOT_FONTPATH to the directory
# containing the font.

DOT_FONTNAME = FreeSans

# By default doxygen will tell dot to use the output directory to look for the
# FreeSans.ttf font (which doxygen will put there itself). If you specify a
# different font using DOT_FONTNAME you can set the path where dot
# can find it using this tag.

DOT_FONTPATH =

# If the CLASS_GRAPH and HAVE_DOT tags are set to YES then doxygen
# will generate a graph for each documented class showing the direct and
# indirect inheritance relations. Setting this tag to YES will force the
# the CLASS_DIAGRAMS tag to NO.

CLASS_GRAPH = YES

# If the COLLABORATION_GRAPH and HAVE_DOT tags are set to YES then doxygen
# will generate a graph for each documented class showing the direct and
# indirect implementation dependencies (inheritance, containment, and
# class references variables) of the class with other documented classes.

COLLABORATION_GRAPH = YES

# If the GROUP_GRAPHS and HAVE_DOT tags are set to YES then doxygen
# will generate a graph for groups, showing the direct groups dependencies

GROUP_GRAPHS = YES
# If the UML_LOOK tag is set to YES doxygen will generate inheritance and collaboration diagrams in a style similar to the OMG's Unified Modeling Language.

UML_LOOK               = NO

# If set to YES, the inheritance and collaboration graphs will show the relations between templates and their instances.

TEMPLATE_RELATIONS    = NO

# If the ENABLE_PREPROCESSING, SEARCH_INCLUDES, INCLUDE_GRAPH, and HAVE_DOT tags are set to YES then doxygen will generate a graph for each documented file showing the direct and indirect include dependencies of the file with other documented files.

INCLUDE_GRAPH         = YES

# If the ENABLE_PREPROCESSING, SEARCH_INCLUDES, INCLUDED_BY_GRAPH, and HAVE_DOT tags are set to YES then doxygen will generate a graph for each documented header file showing the documented files that directly or indirectly include this file.

INCLUDED_BY_GRAPH     = YES

# If the CALL_GRAPH and HAVE_DOT options are set to YES then doxygen will generate a call dependency graph for every global function or class method. Note that enabling this option will significantly increase the time of a run. So in most cases it will be better to enable call graphs for selected functions only using the \callgraph command.

CALL_GRAPH            = NO

# If the CALLER_GRAPH and HAVE_DOT tags are set to YES then doxygen will generate a caller dependency graph for every global function or class method. Note that enabling this option will significantly increase the time of a run. So in most cases it will be better to enable caller graphs for selected functions only using the \callergraph command.

CALLER_GRAPH          = NO

# If the GRAPHICAL_HIERARCHY and HAVE_DOT tags are set to YES then doxygen will graphical hierarchy of all classes instead of a textual one.

GRAPHICAL_HIERARCHY   = YES

# If the DIRECTORY_GRAPH, SHOW_DIRECTORIES and HAVE_DOT tags are set to YES
# then doxygen will show the dependencies a directory has on other directories # in a graphical way. The dependency relations are determined by the #include # relations between the files in the directories.

DIRECTORY_GRAPH        = YES

# The DOT_IMAGE_FORMAT tag can be used to set the image format of the images # generated by dot. Possible values are png, jpg, or gif # If left blank png will be used.

DOT_IMAGE_FORMAT       = png

# The tag DOT_PATH can be used to specify the path where the dot tool can be # found. If left blank, it is assumed the dot tool can be found in the path.

DOT_PATH               =

# The DOTFILE_DIRS tag can be used to specify one or more directories that # contain dot files that are included in the documentation (see the # \dotfile command).

DOTFILE_DIRS           =

# The DOT_GRAPH_MAX_NODES tag can be used to set the maximum number of # nodes that will be shown in the graph. If the number of nodes in a graph # becomes larger than this value, doxygen will truncate the graph, which is # visualized by representing a node as a red box. Note that doxygen if the # number of direct children of the root node in a graph is already larger than # DOT_GRAPH_MAX_NODES then the graph will not be shown at all. Also note # that the size of a graph can be further restricted by MAX_DOT_GRAPH_DEPTH.

DOT_GRAPH_MAX_NODES    = 50

# The MAX_DOT_GRAPH_DEPTH tag can be used to set the maximum depth of the # graphs generated by dot. A depth value of 3 means that only nodes reachable # from the root by following a path via at most 3 edges will be shown. Nodes # that lay further from the root node will be omitted. Note that setting this # option to 1 or 2 may greatly reduce the computation time needed for large # code bases. Also note that the size of a graph can be further restricted by # DOT_GRAPH_MAX_NODES. Using a depth of 0 means no depth restriction.

MAX_DOT_GRAPH_DEPTH    = 0

# Set the DOT_TRANSPARENT tag to YES to generate images with a transparent # background. This is disabled by default, because dot on Windows does not # seem to support this out of the box. Warning: Depending on the platform used, # enabling this option may lead to badly anti-aliased labels on the edges of # a graph (i.e. they become hard to read).
DOT_TRANSPARENT = NO

# Set the DOT_MULTI_TARGETS tag to YES allow dot to generate multiple output
# files in one run (i.e. multiple -o and -T options on the command line). This
# makes dot run faster, but since only newer versions of dot (>1.8.10)
# support this, this feature is disabled by default.

DOT_MULTI_TARGETS = NO

# If the GENERATE_LEGEND tag is set to YES (the default) Doxygen will
# generate a legend page explaining the meaning of the various boxes and
# arrows in the dot generated graphs.

GENERATE_LEGEND = YES

# If the DOT_CLEANUP tag is set to YES (the default) Doxygen will
# remove the intermediate dot files that are used to generate
# the various graphs.

DOT_CLEANUP = YES

#--------------------------------------------------------------------------------
# Configuration::additions related to the search engine
#--------------------------------------------------------------------------------

# The SEARCHENGINE tag specifies whether or not a search engine should be
# used. If set to NO the values of all tags below this one will be ignored.

SEARCHENGINE = NO

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Agone_APIs_v_1_2/SHWK_1_2/phymod/doc/Doxyfile
No license file was found, but licenses were detected in source scan.

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*****************************************************************************/

Found in path(s):
*/opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/common/adapter_driver165_init.c

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/bsl.h
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/doc/Makefile
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gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/Log/incl/log.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/common/adapter_sl eep.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/Adapter_EIP160/src/common/adapter_sl eep.c
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*/opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/legacy.h

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* File: chip.h
* Purpose: Defines for chip types, etc.
* Requires: soctypes.h, memory, register and feature defs.
* System on Chip (SOC) basic structures and typedefs
* Each chip consists of a number of blocks. Each block can be
* a port interface controller (PIC) that contains ports.
* The mcm/bcm*.i files contain definitions of each block and port
* in the associated chip. The structures used in those files
* are defined here. They are used to build internal use data
* structures defined in soc/drv.h
*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/chip.h
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*
* this header file defines types used in driver services.
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy542xx_sdk.c
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_plp_base_t_secy_api.c

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socregs.c is missing some information about tables, including the
minimum and maximum indices, a user-friendly names for the tables,
and table descriptions. socmem_info_t is a parallel structure
indexed by soc_mem_t that contains this information.

* CBP memory consists of the tables MMU_MEMORIES1_xx, which are of
* varying lengths and widths, and the transaction queue memories
* MMU_MEMORIES2_xx.
*/

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*
* 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)
*/

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
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# 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.

IDLPROPERTY_SUPPORT    = YES

# If member grouping is used in the documentation and the DISTRIBUTEGROUPDOC
# 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.

DISTRIBUTEGROUPDOC    = NO

# Set the SUBGROUPING tag to YES (the default) to allow class member groups of
# the same type (for instance a group of public functions) to be put as a
# subgroup of that type (e.g. under the Public Functions section). Set it to
# NO to prevent subgrouping. Alternatively, this can be done per class using
# the nosubgrouping command.

SUBGROUPING            = YES

# When TYPEDEF_HIDES_STRUCT is enabled, a typedef of a struct, union, or enum
# is documented as struct, union, or enum with the name of the typedef. So
typedef struct TypeS {} TypeT, will appear in the documentation as a struct
with name TypeT. When disabled the typedef will appear as a member of a file,
namespace, or class. And the struct will be named TypeS. This can typically
be useful for C code in case the coding convention dictates that all compound
types are typedef'ed and only the typedef is referenced, never the tag name.

TYPEDEF_HIDES_STRUCT = NO

# The SYMBOL_CACHE_SIZE determines the size of the internal cache use to
determine which symbols to keep in memory and which to flush to disk.
# When the cache is full, less often used symbols will be written to disk.
# For small to medium size projects (<1000 input files) the default value is
# probably good enough. For larger projects a too small cache size can cause
# doxygen to be busy swapping symbols to and from disk most of the time
# causing a significant performance penalty.
# If the system has enough physical memory increasing the cache will improve the
# performance by keeping more symbols in memory. Note that the value works on
# a logarithmic scale so increasing the size by one will roughly double the
# memory usage. The cache size is given by this formula:
# 2^(16+SYMBOL_CACHE_SIZE). The valid range is 0..9, the default is 0,
# corresponding to a cache size of 2^16 = 65536 symbols

SYMBOL_CACHE_SIZE = 0

#---------------------------------------------------------------
# Build related configuration options
#---------------------------------------------------------------

# If the EXTRACT_ALL tag is set to YES doxygen will assume all entities in
# documentation are documented, even if no documentation was available.
# Private class members and static file members will be hidden unless
# the EXTRACT_PRIVATE and EXTRACT_STATIC tags are set to YES

EXTRACT_ALL = YES

# If the EXTRACTPRIVATE tag is set to YES all private members of a class
# will be included in the documentation.

EXTRACT_PRIVATE = NO

# If the EXTRACTSTATIC 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:

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 documentation.

REFERENCES_LINK_SOURCE = YES

# If the USE_HTAGS tag is set to YES then the references to source code
# will point to the HTML generated by the htags(1) tool instead of doxygen
# built-in source browser. The htags tool is part of GNU's global source
# tagging system (see http://www.gnu.org/software/global/global.html). You
# will need version 4.8.6 or higher.

USE_HTAGS = NO

# If the VERBATIM_HEADERS tag is set to YES (the default) then Doxygen
# will generate a verbatim copy of the header file for each class for
# which an include is specified. Set to NO to disable this.

VERBATIM_HEADERS = NO

#---------------------------------------------------------------
# configuration options related to the alphabetical class index
#---------------------------------------------------------------

# If the alphabetical index is enabled (see ALPHABETICAL_INDEX) then
# the COLS_IN_ALPHA_INDEX tag can be used to specify the number of columns
# in which this list will be split (can be a number in the range [1..20])

COLS_IN_ALPHA_INDEX = 5

# In case all classes in a project start with a common prefix, all
# classes will be put under the same header in the alphabetical index.
# The IGNORE_PREFIX tag can be used to specify one or more prefixes that
# should be ignored while generating the index headers.

IGNORE_PREFIX =

#---------------------------------------------------------------
# configuration options related to the HTML output
#---------------------------------------------------------------
# If the GENERATE_HTML tag is set to YES (the default) Doxygen will
# generate HTML output.

GENERATE_HTML = YES

# The HTML_OUTPUT tag is used to specify where the HTML docs will be put.
# If a relative path is entered the value of OUTPUT_DIRECTORY will be
# put in front of it. If left blank 'html' will be used as the default path.

HTML_OUTPUT = html

# The HTML_FILE_EXTENSION tag can be used to specify the file extension for
# each generated HTML page (for example: .htm,.php,.asp). If it is left blank
# doxygen will generate files with .html extension.

HTML_FILE_EXTENSION = .html

# The HTML_HEADER tag can be used to specify a personal HTML header for
# each generated HTML page. If it is left blank doxygen will generate a
# standard header.

HTML_HEADER =

# The HTML_FOOTER tag can be used to specify a personal HTML footer for
# each generated HTML page. If it is left blank doxygen will generate a
# standard footer.

HTML_FOOTER =

# The HTML_STYLESHEET tag can be used to specify a user-defined cascading
# style sheet that is used by each HTML page. It can be used to
# fine-tune the look of the HTML output. If the tag is left blank doxygen
# will generate a default style sheet. Note that doxygen will try to copy
# the style sheet file to the HTML output directory, so don't put your own
# stylesheet in the HTML output directory as well, or it will be erased!

HTML_STYLESHEET =

# If the HTML_ALIGN_MEMBERS tag is set to YES, the members of classes,
# files or namespaces will be aligned in HTML using tables. If set to
# NO a bullet list will be used.

# HTML_ALIGN_MEMBERS = YES

# If the HTML_DYNAMIC_SECTIONS tag is set to YES then the generated HTML
# documentation will contain sections that can be hidden and shown after the
# page has loaded. For this to work a browser that supports
# JavaScript and DHTML is required (for instance Mozilla 1.0+, Firefox
# Netscape 6.0+, Internet explorer 5.0+, Konqueror, or Safari).

HTML_DYNAMIC_SECTIONS = NO

# If the GENERATE_DOCSET tag is set to YES, additional index files will be generated that can be used as input for Apple's Xcode 3 integrated development environment, introduced with OSX 10.5 (Leopard).
# To create a documentation set, doxygen will generate a Makefile in the HTML output directory. Running make will produce the docset in that directory and running "make install" will install the docset in ~/Library/Developer/Shared/Documentation/DocSets so that Xcode will find it at startup.

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 (lhc) 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

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
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
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
# 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 PERLMODPRETTY 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.

PERLMODPRETTY = 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
#---------------------------------------------------------------------------

CLASS_DIAGRAMS = YES

MSCGEN_PATH =

HIDE_UNDOC_RELATIONS = YES

HAVE_DOT = YES
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 generate a graphical hierarchy of all classes instead of a textual one.

GRAPHICAL_HIERARCHY = YES

# If the DIRECTORY_GRAPH, SHOW_DIRECTORIES and HAVE_DOT tags are set to YES then doxygen will show the dependencies a directory has on other directories in a graphical way. The dependency relations are determined by the #include relations between the files in the directories.

DIRECTORY_GRAPH = YES

# The DOT_IMAGE_FORMAT tag can be used to set the image format of the images generated by dot. Possible values are png, jpg, or gif. If left blank png will be used.

DOT_IMAGE_FORMAT = png

# The tag DOT_PATH can be used to specify the path where the dot tool can be found. If left blank, it is assumed the dot tool can be found in the path.

DOT_PATH =

# The DOTFILE_DIRS tag can be used to specify one or more directories that contain dot files that are included in the documentation (see the \dotfile command).
DOTFILE_DIRS =

# The DOT_GRAPH_MAX_NODES tag can be used to set the maximum number of # nodes that will be shown in the graph. If the number of nodes in a graph # becomes larger than this value, doxygen will truncate the graph, which is # visualized by representing a node as a red box. Note that doxygen if the # number of direct children of the root node in a graph is already larger than # DOT_GRAPH_MAX_NODES then the graph will not be shown at all. Also note # that the size of a graph can be further restricted by MAX_DOT_GRAPH_DEPTH.

DOT_GRAPH_MAX_NODES = 50

# The MAX_DOT_GRAPH_DEPTH tag can be used to set the maximum depth of the # graphs generated by dot. A depth value of 3 means that only nodes reachable # from the root by following a path via at most 3 edges will be shown. Nodes # that lay further from the root node will be omitted. Note that setting this # option to 1 or 2 may greatly reduce the computation time needed for large # code bases. Also note that the size of a graph can be further restricted by # DOT_GRAPH_MAX_NODES. Using a depth of 0 means no depth restriction.

MAX_DOT_GRAPH_DEPTH = 0

# Set the DOT_TRANSPARENT tag to YES to generate images with a transparent # background. This is disabled by default, because dot on Windows does not # seem to support this out of the box. Warning: Depending on the platform used, # enabling this option may lead to badly anti-aliased labels on the edges of # a graph (i.e. they become hard to read).

DOT_TRANSPARENT = NO

# Set the DOT_MULTI_TARGETS tag to YES allow dot to generate multiple output # files in one run (i.e. multiple -o and -T options on the command line). This # makes dot run faster, but since only newer versions of dot (>1.8.10) # support this, this feature is disabled by default.

DOT_MULTI_TARGETS = NO

# If the GENERATE_LEGEND tag is set to YES (the default) Doxygen will # generate a legend page explaining the meaning of the various boxes and # arrows in the dot generated graphs.

GENERATE_LEGEND = YES

# If the DOT_CLEANUP tag is set to YES (the default) Doxygen will # remove the intermediate dot files that are used to generate # the various graphs.
DOT_CLEANUP = YES

# Configuration::additions related to the search engine

# The SEARCHENGINE tag specifies whether or not a search engine should be # used. If set to NO the values of all tags below this one will be ignored.

SEARCHENGINE = NO

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar- gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/doc/Doxyfile

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

/*
 * $Id: enet.h,v 1.12 Broadcom SDK $
 * $Copyright: Copyright 2016 Broadcom Limited.
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 * and/or its licensors, and may only be used, duplicated, modified
 * or distributed pursuant to the terms and conditions of a separate,
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* ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.$
*
* This header file defines packet formats for Ethernet and Broadcom stacking.
*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_ApIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/enet.h
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_ApIs_v_1_2/SHWK_1_2/imacsec/include/cs_adapter.h
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/cmdebug.h
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gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/imacsec/Kit/List/src/list.c
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/imacsec/Kit/List/incl/list.h
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alane_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier2/phy542xx_diagnostics.c
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alane_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier2/phy542xx.c
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* Purpose: Defines common PHY driver routines for Broadcom 10G PHY.
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*
* File: memregs.h
* Purpose: Memory entry declarations, memory and register macros
*
*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/mcm/memregs.h
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/*
 * $Id: phy542xx_regdefs.h,v 1.14 2013/06/19 02:32:30 mpall Exp $
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*
* File: spl.h
* Purpose: Interrupt Blocking
*
/ *

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* $Id: phymod_definitions.h,v 1.2.2.12 2013/09/03 06:54:51 dayad Exp $
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* Shell diagnostics of Phymod
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar.gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/doc/html/functions_0x63.html

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* File: uc_msg.h

*/

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*
* File: cmic.h
* Purpose: Maps out structures used for CMIC operations and
* exports routines and constants.
*/

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

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/memory.h
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/*
* $Id: phy542xx_int.h,v 1.6 2013/04/13 00:34:41 majotk Exp $
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Found in path(s):
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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phyecd.c
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/*
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 *
 * File:        phyecd.c
 * Purpose:     PHY ECD routines
 */

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*
*/

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gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_common_defines.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/bcm_pm_if/bcm_common_defines.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.

This file is auto-generated from the registers file. Edits to this file will be lost when it is regenerated.

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

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/mcm/allfields.h
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* *
* */

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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):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/l3.h

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#

- 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 - bcmplFirmwareLoadMethodNone: Do not download firmware
  - 1 - bcmplFirmwareLoadMethodInternal: Internal Firmware Download: MDIO download
  - 2 - bcmplFirmwareLoadMethodExternal: Reserved for future use
  - 3 - bcmplFirmwareLoadMethodProgEEPROM: Reserved for future use

**firmware_load_type**

- **force_load_method**: Force firmware load method
  - 0 - bcmplFirmwareLoadSkip: Skip firmware download if firmware is already present
  - 1 - bcmplFirmwareLoadForce: Always download the firmware specified by firmware load method
  - 2 - bcmplFirmwareLoadAuto: 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=bcmplFirmwareLoadMethodInternal;
```
firmware_load_type.force_load_method=bcpmpFirmwareLoadForce;

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, bcpmpFirmwareBroadcastCoreReset); ## 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, bcpmpFirmwareBroadcastEnable); ## 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, bcpmpFirmwareBroadcastFirmwareExecute); ## Download MICROCODE

iv) For each PHY in BCAST_LIST call,
    bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type, bcpmpFirmwareBroadcastFirmwareVerify); ## verify FW

v) For each PHY in BCAST_LIST call,
    bcm_plp_init_fw_bcast("chip_name",phy_info, read, write, &firmware_load_type, bcpmpFirmwareBroadcastEnd); ## End of broadcast

---------------------------------------------------------------------------------------------
---------------
Unicast Firmware Download
---------------------------------------------------------------------------------------------
---------------
Unicast firmware download can also be acheived through "bcm_plp_init_fw_bcast", By calling with bcpmpFirmwareBroadcastNone API as follows,
    bcm_plp_init_fw_bcast("chip_name",phy_info, read, write,bcmFirmwareBroadcastNone);

6. Microcode Release
---------------------
i) Hex version of microcode(firmware) file, <chip>_ucode.c available in
$<CHIP>_Y>Z>phy_mod/chip/<phy chip>/tier1

.getVersion> denotes the version of the firmware.
<chip> denotes the phy chip

7. Floating Point Library Requirement:
--------------------------------------
    bcm_pm_if_eye_margin_proj API requires floating point library support.
User has to compile ePIL with SERDES_API_FLOATING_POINT in config.mk as mentioned below(conditional compilation flag, specified in make file with -D option)
for enabling bcm_pm_if_eye_margin_proj API support.
TMP_PHYMOD_EPIL_CPPFLAGS += -DSERDES_API_FLOATING_POINT
before
export PHYMOD_EPIL_DSYM_CPPFLAGS

8. To enable debug message for register read and write:

Add TMP_PHYMOD_EPIL_CPPFLAGS += -DPHYMOD_DEBUG_BUS_WRITE -DPHYMOD_DEBUG_BUS_READ in make\config.mk file

9. Updating PRE defined PHYMOD macro with user defined macro/API

PHYMOD provides a way to update pre defined macro with user defined API.
User needs to update macros in $<CHIP>_<Y>_<Z>/phymod/include/phymod_custom_config.h based on user environment.

eg: #define PHYMOD_USLEEP user_usleep

10. Warmboot Support

Application has to follow below steps to perform warmboot,

1. To enable driver to supports warmboot,
   Compile with TMP_PHYMOD_EPIL_CPPFLAGS += -DBCM_PLP_WARM_BOOT_SUPPORT in make\config.mk file

2. To use warmboot feature,
   Call bcm_plp_init API or bcm_plp_init_fw_bcast API (for broadcast enabled init) with flags(under bcm_plp_info structure) as BCM_PLP_WARM_BOOT.
   For MACSEC module,
   Call bcm_plp_cyfe_device_init with flags(under bcm_plp_info structure) as BCM_PLP_WARM_BOOT and
   Call bcm_plp_secy_device_init with flags(under bcm_plp_info structure) as BCM_PLP_WARM_BOOT.

NOTE: For cold boot it is expected to clear flags (under bcm_plp_info structure)

11. Using EPDM common define to compile driver

   1. Enabling driver to use epdm common defines,
      Step 1: Compile with TMP_PHYMOD_EPIL_CPPFLAGS += -DUSE_EPDM_COMMON_DEFINES in make\config.mk file
      Step 2: Define EPDM_HOME based on your EPDM installation directory

      Note: By default driver uses common defines that is available in the driver package.

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-targ.gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/README
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/include/c_hwpal_device_umdevxs.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Integration/DriverFramework/src/hwpal_device_umdevxs.c

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 * $Id: phy_unimac.c,v 1.3 2011/05/12 01:35:43 raphy Exp $
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 */

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy_unimac.c

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<tr class="memitem:a1c8f9fa7a255053b1d561938628d5f44"><td class="memItemLeft" align="right"
align="top">unsigned char</td><td class="memItemRight" valign="bottom"><a class="el"
href="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44">confidentiality_of
fset</a></td></tr>

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<tr class="memitem:a1c8f9fa7a255053b1d561938628d5f44"><td class="memItemLeft" align="right"
valign="top">unsigned char &amp;#160;</td><td class="memItemRight" valign="bottom"><a class="el" href="structbcm__plp__base__t__secy__sa__i__t.html#a1c8f9fa7a255053b1d561938628d5f44">confidentiality_of
fset</a></td></tr>

<tr class="memname">
unsigned char bcm_plp_base_t_secy_sa_i_t::confidentiality_offset</tr>

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/html/structbcm__plp__base__t__secy__sa__i__t.html

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* $Id$
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*/opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy542xx_diag_seq.c
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 *
* File:      ccmdma.h
* Purpose:   Maps out structures used for CCMDMA operations and
exports routines.
*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ccmdma.h

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* File: mos_intr_common.h
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File: dpc.h
Purpose: Deferred Procedure Call module
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/bcm_pm_if/bcm_pm_if.c

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

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
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/* false - disable confidentiality protection */
/* true - enable confidentiality protection (AES-GCM/CTR operation) */
/* false - disable confidentiality protection (AES-GMAC operation) */

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/ /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/incl/eip160_secy.h

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alpis_v_1_2/SHWK_1_2/phymod/include/phymod/chip/phy542xx_diagnostics.h
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Found in path(s):
*/opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alene_APIs_v_1_2/SHWK_1_2/bcm_pm_if/bcm_pm_if.h
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*
* File: phydefs.h
* Purpose: Basic defines for PHYs.
* This should be included after all other SOC include files and
* before all other PHY include files.
*/

Found in path(s):
 arg /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alones_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/phydefs.h
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*
* SOC_FEATURE definitions
*
* File: feature.h
* Purpose: Define features by chip
*/

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-targ-gz/Seahawks_Sta
* d_ApIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP217/src/c_eip217.h

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* File: thread.h
* Purpose: SAL thread definitions
*/

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

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alene_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ethdma.h
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/seahawks_reference_app/seahawks_config.h

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*
* Bit Array Operations
*/

Found in path(s):
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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'");
}

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");
        }
    }
}
$find_regexp = "";
@find_cmd;

# # mktool_foreach
# sub mktool_foreach
{
    if($_[0] eq "-find")
    {
        shift;
        $find_dir = shift;
        $find_regexp = shift;
        @find_cmds = @_;;

        if(!$find_regexp =~ /^\//)
        {
            $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: $@
        }
    }
}

#
# 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: $@
";
}
}

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";
}

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

        #@echo "$@ \" > ${BLDDIR}/$(notdir $@)
        #@if ($(DEPEND)) >> $(BLDDIR)/$(notdir $@); then\n        #   exit 0;\n        #else\n        #   rm -f ${BLDDIR}/$(notdir $@);\n        #   exit 1;\n        #fi
        #$(MAKEDEP) "$@" "$(BLDDIR)/$(notdir $@)" "$DEPEND"
    }
    else
        $result =~ s/[A-Z][a-z]*/\n/g;
        $result =~ s/\n+//;
        $result =~ s/\$\n/\$/;

        #@echo "$@ \n" > ${BLDDIR}/$(notdir $@)
        #@if ($(DEPEND)) >> $(BLDDIR)/$(notdir $@); then\n        #   exit 0;\n        #else\n        #   rm -f ${BLDDIR}/$(notdir $@);\n        #   exit 1;\n        #fi
        #$(MAKEDEP) "$@" "$(BLDDIR)/$(notdir $@)" "$DEPEND"
    }
    $result =~ s/\n+$//; # toss trailing newlines

    $result =~ s/[A-Z][a-z]*/\n/g;
    $result =~ s/\n+//;
    $result =~ s/\$\n/\$/;

    #@echo "$@ \n" > ${BLDDIR}/$(notdir $@)
    #@if ($(DEPEND)) >> $(BLDDIR)/$(notdir $@); then\n    #   exit 0;\n    #else\n    #   rm -f ${BLDDIR}/$(notdir $@);\n    #   exit 1;\n    #fi
    #$(MAKEDEP) "$@" "$(BLDDIR)/$(notdir $@)" "$DEPEND"

    sub mktool_makedep
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        my ($source, $target, $cmd) = @_; 

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            $result =~ s/\$\n/\$/;

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            #@if ($(DEPEND)) >> $(BLDDIR)/$(notdir $@); then\n            #   exit 0;\n            #else\n            #   rm -f ${BLDDIR}/$(notdir $@);\n            #   exit 1;\n            #fi
            #$(MAKEDEP) "$@" "$(BLDDIR)/$(notdir $@)" "$DEPEND"
        }
        else
            $result =~ s/[A-Z][a-z]*/\n//g;
            $result =~ s/\n+//;
            $result =~ s/\$\n/\$/;

            #@echo "$@ \n" > ${BLDDIR}/$(notdir $@)
            #@if ($(DEPEND)) >> $(BLDDIR)/$(notdir $@); then\n            #   exit 0;\n            #else\n            #   rm -f ${BLDDIR}/$(notdir $@);\n            #   exit 1;\n            #fi
            #$(MAKEDEP) "$@" "$(BLDDIR)/$(notdir $@)" "$DEPEND"
    }

    if ($result)
    {
        sub mktool_makedep
        {
            my ($source, $target, $cmd) = @_; 

            my $result = `&cmd``;
            if(!$?)
            {
                $result =~ s/[A-Z][a-z]*/\n//g;
                $result =~ s/\n+//;
                $result =~ s/\$\n/\$/;

                #@echo "$@ \n" > ${BLDDIR}/$(notdir $@)
                #@if ($(DEPEND)) >> $(BLDDIR)/$(notdir $@); then\n                #   exit 0;\n                #else\n                #   rm -f ${BLDDIR}/$(notdir $@);\n                #   exit 1;\n                #fi
                #$(MAKEDEP) "$@" "$(BLDDIR)/$(notdir $@)" "$DEPEND"
            }
            else
                $result =~ s/[A-Z][a-z]*/\n//g;
                $result =~ s/\n+//;
                $result =~ s/\$\n/\$/;

                #@echo "$@ \n" > ${BLDDIR}/$(notdir $@)
                #@if ($(DEPEND)) >> $(BLDDIR)/$(notdir $@); then\n                #   exit 0;\n                #else\n                #   rm -f ${BLDDIR}/$(notdir $@);\n                #   exit 1;\n                #fi
                #$(MAKEDEP) "$@" "$(BLDDIR)/$(notdir $@)" "$DEPEND"
        }
        $result =~ s/\n+$//; # toss trailing newlines
    }
open (TARGET, ">$target") ||
   die("$prog $op: cannot open '$target' for writing: $!
");
print TARGET "$source 
\${BLDDIR}/$result
";
close(TARGET);
}
}

sub mktool_echo
{
   print "@_\n";
}

sub mktool_beep
{
   -t STDOUT && defined $ENV{MAKEBEEP} && print "\007";
}

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/make/mktool.pl
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP201/src/c_eip201.h
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP201/incl/eip201.h

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*/

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$Id$

Found in path(s):
  /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/all_doc.h
  /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/seahawks_reference_app/WinTypes.h
  /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/bcm_pm_if/all_doc.h

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$/Id: ism_hash.h,v 1.5 Broadcom SDK $

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*
* ISM-HASH management routines
*/

Found in path(s):
*/opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/ism_hash.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):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/phyfege.h
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/*
 * $Id: port.h,v 1.120 2013/09/18 09:18:37 galrotem Exp $
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 *
 * This file defines common network port parameters.
 *
 * Its contents are not used directly by applications; it is used only
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 */

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/port.h
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 * $Id: phy542xx_cfg_seq.h$
 *
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*
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*
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/port_ability.h
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/mmuerr.h

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*/opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/core/phymod_debug.c
*/opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/include/phymod/phymod_acc.h
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* File: sync.h
* Purpose: SAL thread definitions
* 
* Note: the SAL mutex abstraction is required to allow the same mutex
* to be taken recursively by the same thread without deadlock.
*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
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:    drv.h
 * Purpose: Link Layer interface (PHY)
*/

Found in path(s):
*/

*/

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sa.Params.Egress.ConfidentialityOffset = sa_p->params.egress.confidentiality_offset;  \
sa.Params.Ingress.ConfidentialityOffset = sa_p->params.ingress.confidentiality_offset;  \
sa.Params.CryptAuth.ConfidentialityOffset = sa_p->params.crypt_auth.confidentiality_offset;  \

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar- 
  gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/bcm_plp_base_t_secy_api.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar- 
  gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_plp_base_t_secy_api.h
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*
* AXP management routines
*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/seahawks/tier1/legacy/aux/soc/axp.h
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* File: boot.h
* Purpose: Boot definitions
*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/boot.h

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$Id$
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_ATIs_v_1_2/SHWK_1_2/bcm_pm_if/bcm_pm_if_doc.h
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*
* File: socdma.h
* Purpose: Maps out structures used for DMA operations and
* exports routines.
* /

Found in path(s):
*/opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/dma.h

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

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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/imacsec/Kit/Device_API/incl/device_mgm
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 *
 * File: phyctrl.h
 *
 * Data structures and function prototypes for PHY register access.
 */

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
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<tr class="memitem:a6f78468eb0dbc6aea2888df9544b9bc7"><td class="memItemLeft" align="right"
valign="top">unsigned char</td><td class="memItemRight" valign="bottom"><a href="structbcm__plp__base__t__secy__sa__e__t.html#a6f78468eb0dbc6aa2888df9544b9bc7">confidentiality_of</a>
</td>
</tr>
<tr class="memname">unsigned char bcm_plp_base_t_secy_sa_e_t::confidentiality_offset</td>
<td class="memname">true - enable confidentiality protection<br/>
false - disable confidentiality protection</td>
</tr>
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*/

* File:        types.h
* Purpose:
*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/types.h
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gz/Seahawks_Stand_AlonerAPIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip160_hw_interface.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_AlonerAPIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip201.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_AlonerAPIs_v_1_2/SHWK_1_2/imacsec/Kit/EIP160/src/eip160_device.c
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_AlonerAPIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip62.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_AlonerAPIs_v_1_2/SHWK_1_2/imacsec/include/cs_eip217.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_AlonerAPIs_v_1_2/SHWK_1_2/imacsec/include/cs_hwpal.h
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*
* Driver utility routines
*/

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/util.h
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ISM management routines

/
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* *
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Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alon APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/sdk_config.h
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*
* File:       defs.h
* Purpose:    Basic defines for system and chips
*             This should be included before all other SOC include
*             files to make sure BCM_xxxx is defined for them.
* /

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand Alone_APIs_v_1_2/SHWK_1_2/phymod/seahawks/tier1/legacy/aux/soc/defs.h
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/*
 * Source file: phy_mac_ctrl.h, v 1.4 2011/05/22 23:36:07 iakramov
 * $Id: phy_mac_ctrl.h,v 1.4 2011/05/22 23:36:07 iakramov Exp $
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*
* File: rx.h
* Purpose: Packet Receive Reason Types shared between BCM and SOC layers
*/

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*
* File:          counter.h
* Purpose:       Defines map of counter register addresses, as well
*                as structures and routines for driver management of
*                packet statistics counters.
*/

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/seahawks_reference_app/seahawks_macsec_enable.c
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*
* File: avl.h
* Purpose: Defines a generic AVL tree data structure.
*/

Found in path(s):
/* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/avl.h
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* This file defines common network port modes.

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

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alonen_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/port_ability.h
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*
* File: enumgen.h
* Purpose: Defines a set of Macros for managing enums and associated
* string arrays.
*/

Found in path(s):
  * /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/enumgen.h
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* File: ll.h
* Purpose: Link Layer interface (MAC and PHY)
*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.660/0/seahawks-stand-alone-apis-v-1-2-tar-
* gz/Seahawks_Stand_ApIs_v_1_2/SHWK_1_2/phymod/seahawks/tier1/legacy/aux/soc/ll.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
*
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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-targ
gz/Seahawks_Stand_A lone_APIs_v_1_ 2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phy.h
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gz/Seahawks_Stand_A lone_APIs_v_1_ 2/SHWK_1_2/make/depend.mk
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-targ
gz/Seahawks_ Stand_A lone_APIs_v_1_ 2/SHWK_1_2/make/lib.mk
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-targ
gz/Seahawks_ Stand_A lone_APIs_v_1_ 2/SHWK_1_2/make/maketools.mk
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-targ
gz/Seahawks_ Stand_A lone_APIs_v_1_ 2/SHWK_1_2/make/config.mk
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-targ
gz/Seahawks_ Stand_A lone_APIs_v_1_ 2/SHWK_1_2/make/rules.mk
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File: soc/dcb.h
Purpose: Define dma control block (DCB) operations
A uniform set of operations is defined here and loaded
into SOC_CONTROL during initialization.
/

Found in path(s):
/opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/dcb.h
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 */
/** true - enable confidentiality protection
   false - disable confidentiality protection */
/** true - enable confidentiality protection (AES-GCM/CTR operation)
   false - disable confidentiality protection (AES-GMAC operation) */

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/bcm_plp_base_t_sec/bcm_base_t_common_sec_defines.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/doc/dox/bcm_base_t_common_sec_defines.h

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 * $Id: phy_mac_ctrl.c,v 1.5 2012/06/05 20:51:36 raphy Exp $
 *
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 */

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/phy_mac_ctrl.c

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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
 *
 */

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gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/imacsec/Kit/DriverFramework/Basic_Defs_API/incl/basic_def-
s.h
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gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/doc/mkdoc
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/doc/mkdoc
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
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*
* Basic type definitions.
*/

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

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/bsltypes.h

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Its contents are not used directly by applications; it is used only
by header files of parent APIs which need to define port modes.

*  

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

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/sbusdma.h
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* File: phyident.h
* Purpose: Basic defines for PHY Model/OUI/Rev for PHY identification.
* Note: This header file is for PHY driver module. Should not include
  this header file in SOC or BCM layers.
*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/phyident.h

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* Generic FIFO allocation and maintenance
*/

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*
* XGS internal PHY read function with AER support.
*
* This function accepts a 32-bit PHY register address and will
* properly configure clause 45 DEVAD and XAUI lane access.
* Please see phymod_reg.h for additional information.
*
* /

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/acc/phymod_tsc_iblk.c
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*  
* This file contains multicast definitions.  
* */

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gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/pkt.h
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-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: 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):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar.gz/Seahawks_Stand_Alive_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/sal/core/libc.h

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File: phyreg.h

Data structures and function prototypes for PHY register access.

* File: phyreg.h

* Data structures and function prototypes for PHY register access.

*/

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_A lone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/phyreg.h

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*  
* Port Bitmap Macros  
*/

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* File: maxdef.h
*/

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File: phyctrl.h
Purpose: Data structures and function prototypes for PHY configuration.
Note: This header file is for PHY driver module. Should not include this header file in SOC or BCM layers except soc/common/phyctrl.c

Found in path(s):
* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand_Alone_APIS_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/phy/phyctrl.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.

*/

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

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-
gz/Seahawks_Stand_Alone_APIs_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/soc/register.h
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This file defines gport (generic port) parameters. The gport is useful for specifying the following types of identifiers:

- **LOCAL**: port on the local unit
- **MODPORT**: {module ID, port} pair
- **TRUNK**: trunk ID
- **PROXY**: {module ID, port} pair employed in proxy operations
- **BLACK_HOLE**: identifier indicating drop destination
- **LOCAL_CPU**: identifier indicating local CPU destination
- ** MPLS_PORT**: L2 MPLS virtual-port (VPLS/VPWS)
- **SUBPORT_GROUP**: Subport group
- **SUBPORT_PORT**: Subport virtual-port
- **UCAST_QUEUE_GROUP**: Group of unicast COSQs
- **MCAST_QUEUE_GROUP**: Group of multicast COSQs
- **UCAST_SUBSCRIBER_QUEUE_GROUP**: Group of 64K subscriber unicast COSQs
- **MCAST_SUBSCRIBER_QUEUE_GROUP**: Group of 64K subscriber multicast COSQs
- **MCAST**: distribution set identifier
- **SCHEDULER**: COSQ scheduler
- **DEVPORT**: {device ID, port} pair (ports on devices without a module ID)
- **SPECIAL**: application special value (invalid in BCM APIs)
- **MIRROR**: Mirror (modport & encapsulation) for mirrored traffic.
- **MIM_PORT**: MIM virtual-port
- **VLAN_PORT**: VLAN virtual-port
- **WLAN_PORT**: WLAN virtual-port
- **TRILL_PORT**: TRILL virtual-port
- **NIV_PORT**: NIV virtual-port
- **EXTENDER_PORT**: Extender virtual-port
- **MAC_PORT**: MAC virtual-port
- **TUNNEL**: Tunnel ID
- **MULTIPATH**: Multipath shaper

This header requires that the uint32 type be defined before inclusion. Using <sal/types.h> is the simplest (and recommended) way of doing this.

Its contents are not used directly by applications; it is used only by header files of parent APIs which need to define gport parameters.

The following macros are made available. All have names starting with _SHR_, which have been elided from this list:
* Constants or Expressions suitable for assignment:
  * GPORT_NONE            gport initializer
  * GPORT_INVALID         invalid gport identifier
  * GPORT_BLACK_HOLE      black-hole gport identifier
  * GPORT_LOCAL_CPU       local CPU gport identifier
  *
* Predicates: (return 0 or 1, suitable for using in if statements)
  * GPORT_IS_SET          is the gport set?
  * GPORT_IS_LOCAL       is the gport a local port type?
  * GPORT_IS_MODPORT     is the gport a modid/port type?
  * GPORT_IS_TRUNK       is the gport a trunk type?
  * GPORT_IS_BLACK_HOLE  is the gport a black-hole type?
  * GPORT_IS_LOCAL_CPU   is the gport a local CPU type?
  * GPORT_IS_MPLS_PORT   is the gport a MPLS port type?
  * GPORT_IS_SUBPORT_GROUP is the gport a subport group type?
  * GPORT_IS_SUBPORT_PORT is the gport a subport port type?
  * GPORT_IS_UCAST_QUEUE_GROUP is the gport a unicast group type?
  * GPORT_IS_UCAST_SUBSCRIBER_QUEUE_GROUP is the gport a subscriber unicast group type?
  * GPORT_IS_MCAST       is the gport a multicast set type?
  * GPORT_IS_MCAST_QUEUE_GROUP is the gport a multicast queue group type?
  * GPORT_IS_MCAST_SUBSCRIBER_QUEUE_GROUP is the gport a multicast subscriber queue group type?
  * GPORT_IS_SCHEDULER   is the gport a scheduler type?
  * GPORT_IS_DEVPORT     is the gport a devid/port type?
  * GPORT_IS_SPECIAL    is the gport a special type?
  * GPORT_IS_MIRROR      is the gport a mirror destination type?
  * GPORT_IS_MIM_PORT    is the gport a MIM port type?
  * GPORT_IS_VLAN_PORT   is the gport a VLAN port type?
  * GPORT_IS_WLAN_PORT   is the gport a WLAN port type?
  * GPORT_IS_TRILL_PORT  is the gport a TRILL port type?
  * GPORT_IS_NIV_PORT    is the gport a NIV port type?
  * GPORT_IS_EXTENDER_PORT is the gport an Extender port type?
  * EXTLINDER_GPORT_IS_PORT is the extender gport a port subtype?
  * EXTLINDER_GPORT_IS_FORWARD is the extender gport a port forward?
  * EXTLINDER_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 devvid 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_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_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
*/

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* /opt/cola/permits/1238835855_1647486275.66/0/seahawks-stand-alone-apis-v-1-2-tar-gz/Seahawks_Stand Alone_APIS_v_1_2/SHWK_1_2/phymod/chip/seahawks/tier1/legacy/aux/shared/gport.h
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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.)

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

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

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

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

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

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

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

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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Sections 1 and 2 above); and, if the work is an executable linked
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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
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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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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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.

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allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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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
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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.

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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
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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.

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That's all there is to it!

1.379 markupsafe 1.1.1 r0
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* `/opt/cola/permits/1294739436_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/README.rst`
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Metadata-Version: 1.2
Name: MarkupSafe
Version: 1.1.1
Summary: Safely add untrusted strings to HTML/XML markup.
Home-page: https://palletsprojects.com/p/markupsafe/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: The Pallets Team
Description: MarkupSafe

==========

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing

--------

Install and update using `pip`:

.. code-block:: text

    pip install -U MarkupSafe


Examples

--------

.. code-block:: pycon

    >>> from markupsafe import Markup, escape
    >>> # escape replaces special characters and wraps in Markup
    >>> escape('<script>alert(document.cookie);</script>')
    Markup(u'<script>alert(document.cookie);</script>')</code>
    >>> # wrap in Markup to mark text "safe" and prevent escaping
    >>> Markup('<strong>Hello</strong>')
    Markup('<strong>hello</strong>')</code>
    >>> escape(Markup('<strong>Hello</strong>'))
    Markup('<strong>hello</strong>')</code>
    >>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
    >>> # methods and operators escape their arguments
    >>> template = Markup("Hello <em>%s</em>")
    >>> template % "World"
    Markup('Hello <em>&#34;World&#34;</em>')
The Pallets organization develops and supports MarkupSafe and other libraries that use it. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`.

.. _please donate today: https://palletsprojects.com/donate

Links
-----

* Website: https://palletsprojects.com/p/markupsafe/
* Documentation: https://markupsafe.palletsprojects.com/
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* Releases: https://pypi.org/project/MarkupSafe/
* Code: https://github.com/pallets/markupsafe
* Issue tracker: https://github.com/pallets/markupsafe/issues
* Test status:

  * Linux, Mac: https://travis-ci.org/pallets/markupsafe
  * Windows: https://ci.appveyor.com/project/pallets/markupsafe

  * Test coverage: https://codecov.io/gh/pallets/markupsafe

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
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Classifier: Programming Language :: Python
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Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7,!=3.0.*,!=3.1.*,!=3.2.*,!=3.3.*

Found in path(s):
* /opt/cola/permits/1294739436_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/PKG-INFO
* /opt/cola/permits/1294739436_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/src/MarkupSafe.egg-info/PKG-INFO

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/**
 * markupsafe._speedups
 * ~~~~~~~~~~~~~~~~~~~~
 * 
 * C implementation of escaping for better performance. Used instead of
 * the native Python implementation when compiled.
 * 
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 */

Found in path(s):
* /opt/cola/permits/1294739436_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/_speedups.c

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* /opt/cola/permits/1294739436_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/_native.py
* /opt/cola/permits/1294739436_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/_compat.py
* /opt/cola/permits/1294739436_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/__init__.py
* /opt/cola/permits/1294739436_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/_constants.py

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1.380 busybox 1.32.0 r0

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Julian Seward, Cambridge, UK.
jseward@bzip.org
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1.389 libxml2 2.9.10 r0

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1.390 e2fsprogs
1.42.99+1.43+git0+0f26747167 r0

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

- trivial database library - private includes
-
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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

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

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.
Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$ (BSD_LIB)

$ (BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$ (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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The most recent officially distributed version can be found at
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using the "WIP" test distributions or one from the hg or git
repository from the development branch, please contact me
(tytso@mit.edu) before you ship. The release schedules for this
package are flexible, if you give me enough lead time.
Theodore Ts'o  
23-June-2007

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Gadi Oxman, August 1995

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1.391 krb5-libs 1.18.2

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
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
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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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Otherwise, if the work is a derivative of the Library, you may
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That's all there is to it!

1.396 python-pip 20.0.2 r0

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Version 2.1, February 1999

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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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contextlib2 is a derivative of the contextlib module distributed by the PSF
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under the PSF license (reproduced in full below). As the contextlib module
was added only in Python 2.5, the licenses for earlier Python versions are
not applicable and have not been included.

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

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

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

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

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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.

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.

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

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

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

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

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
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 $
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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be combined with the library in order to run.

^L

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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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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:

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e) Verify that the user has already received a copy of these
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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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* DNS resolver (dirmngr/dns.c)
dns.c - Recursive, Reentrant DNS Resolver.

------------------------------------------------------------------------

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* 
* BINOS specific changes to associate memcluster with an evctx
* 
* March 2014, Aswin Kuppusami
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/bind/irs/irp_nw.c
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<refentry>
	<refentryinfo>
		<date>Jun 30, 2000</date>
	</refentryinfo>
	<refmeta>
		<refentrytitle>lwres_gabn</refentrytitle>
		<manvolnum>3</manvolnum>
	</refmeta>
	<refnamediv>
		<refname>lwres_gabnrequest_render</refname>
		<refname>lwres_gabnresponse_render</refname>
		<refname>lwres_gabnrequest_parse</refname>
		<refname>lwres_gabnresponse_parse</refname>
		<refname>lwres_gabnresponse_free</refname>
		<refname>lwres_gabnrequest_free</refname>
		<refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>
	</refnamediv>
	<refsynopsisdiv>
		<funcsynopsis>
			#include &lt;lwres/lwres.h&gt;</funcsynopsis>
	</refsynopsisdiv>
	<funcsynopsisinfo>#include &lt;lwres/lwres.h&gt;</funcsynopsisinfo>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnresponse_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
void
<function>lwres_gabnresponse_free</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
void
<function>lwres_gabnrequest_free</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
These are low-level routines for creating and parsing lightweight resolver name-to-address lookup request and response messages.

There are four main functions for the getaddrbymename opcode. One render function converts a getaddrbymename request structure to the lightweight resolver's canonical format. It is complemented by a parse function that converts a packet in this canonical format to a getaddrbymename request structure. Another render function converts the getaddrbymename response structure to the canonical format. This is complemented by a parse function which converts a packet in canonical format to a getaddrbymename response structure.

These structures are defined in `<lwres/lwres.h>`. They are shown below.

```c
#define LWRES_OPCODE_GETADDRESBYSNAME 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 addrtype;
    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_gabnresponse_t;
```
lwres_addrlist_t    addr;
    void *base;
    size_t    baselen;
} lwres_gabnresponse_t;
</programlisting>

<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_UNEXPECTEDEDEND</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_UNEXPECTEDEDEND</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>

<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_packet</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
</para>
</refsect1>
</refentry>

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

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/* This is the header file for the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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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>.
* Still in the public domain.
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<!-- $Id: lwres_getipnode.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->
lightweight resolver nodename / address translation API

#include &lt;lwres/netdb.h&gt;

struct hostent *
lwres_getipnodebyname(const char *name, int af, int flags, int *error_num);

struct hostent *
lwres_getipnodebyaddr(const void *src, size_t len, int af, int *error_num);

void
lwres_freehostent(struct hostent *he);

These functions perform thread safe, protocol independent
nodename-to-address and address-to-nodename
translation as defined in RFC2553.

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>

The members of this structure are:

<varlistentry><term><constant>h_name</constant></term>
</listitem>
The official (canonical) name of the host.
</para>
</varlistentry></varlistentry>
<varlistentry><term><constant>h_aliases</constant></term>
</listitem>
A NULL-terminated array of alternate names (nicknames) for the host.
</para>
</varlistentry></varlistentry>
<varlistentry><term><constant>h_addrtype</constant></term>
</listitem>
The type of address being returned - usually
<type>PF_INET</type>
or
<type>PF_INET6</type>.
</para>
</varlistentry></varlistentry>
<varlistentry><term><constant>h_length</constant></term>
</listitem>
The length of the address in bytes.
</para>
</varlistentry></varlistentry>
<varlistentry><term><constant>h_addr_list</constant></term>
</listitem>
A terminated array of network addresses for the host. Host addresses are returned in network byte order.

 lwres_getipnodebyname() looks up addresses of protocol family for the hostname.

The flags 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:

- **AI_V4MAPPED**:
  - This is used with an af of AF_INET6, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.

- **AI_ALL**:
  - This is used with an af 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.

- **AI_ADDRCONFIG**:
  - Only return an IPv6 or IPv4 address if there 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>

This default sets the
<constant>AI_V4MAPPED</constant>
and
<constant>AI_ADDRCONFIG</constant>
flag bits.
</para>
</listitem></varlistentry>
</variablelist>

</para>
</para>

<function>lwres_getnodebyaddr()</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>

<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>
If an error occurs, 
<function>lwres_getipnodebyname()</function> 
and 
<function>lwres_getipnodebyaddr()</function> 
set 
<parameter>*error_num</parameter> 
to an appropriate error code and the function returns a 
<type>NULL</type> 
pointer. 
The error codes and their meanings are defined in 
<filename>&lt;lwres/netdb.h&gt;</filename>: 

<variablelist>
<varlistentry>
<term><constant>HOST_NOT_FOUND</constant></term>
</varlistentry>
</variablelist>
No such host is known.

<variablelist>
<varlistentry>
<term><constant>NO_ADDRESS</constant></term>
</varlistentry>
</variablelist>
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.

<variablelist>
<varlistentry>
<term><constant>TRYAGAIN</constant></term>
</varlistentry>
</variablelist>
A temporary and possibly transient error occurred, such as a 
failure of a server to respond. The request may succeed if 
retried.

<variablelist>
<varlistentry>
<term><constant>NO_RECOVERY</constant></term>
</varlistentry>
</variablelist>
An unexpected failure occurred, and retrying the request 
is pointless.
translates these error codes to suitable error messages.

SEE ALSO

RFC2553, lwres, lwres_gethostent, lwres_getaddrinfo, lwres_getnameinfo, lwres_hstrerror.
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/getgrent_r.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/getprotoent_r.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gethostent_r.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/getservent_r.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/getpwent_r.c
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"$Id: assertions.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $"
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/strerror.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/parseint.h
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/*------------------------------------------------------------------
* eventlib definitions specific to binos
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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 sockaddr on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN
* will be defined.
*/
@LWRES_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, LWRES_PLATFORM_HAVEIPV6
* will be defined.
*/
@LWRES_PLATFORM_HAVEIPV6@
/*
 * If this system is missing in6addr_any, LWRES_PLATFORM_NEEDIN6ADDRANY will
 * be defined.
 */
@LWRES_PLATFORM_NEEDIN6ADDRANY@

/*
 * If this system is missing in6addr_loopback,
 * LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
 */
@LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
 * If this system has in_addr6, rather than in6_addr,
 * LWRES_PLATFORM_HAVEINADDR6 will be defined.
 */
@LWRES_PLATFORM_HAVEINADDR6@

/*
 * Defined if unistd.h does not cause fd_set to be declared.
 */
@LWRES_PLATFORM_NEEDSYSSELECTH@

/*
 * Used to control how extern data is linked; needed for Win32 platforms.
 */
@LWRES_PLATFORM_USEDECLSPEC@

/*
 * Defined this system needs vsnprintf() and snprintf().
 */
@LWRES_PLATFORM_NEEDVSNPRINTF@

/*
 * If this system need a modern sprintf() that returns (int) not (char*).
 */
@LWRES_PLATFORM_NEEDSPRINTF@

#ifndef LWRES_PLATFORM_USEDECLSPEC
#define LIBLWRES_EXTERNAL_DATA
#else
#ifdef LIBLWRES_EXPORTS
#define LIBLWRES_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBLWRES_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/types.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/gen.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/name.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/socket.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/sockaddr.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/task.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/lex.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/task.c

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

<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 &lt;lwres/lwres.h&gt;</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>
<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>

<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>
</refentry>
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/sco42/include/sys/un.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/nameser/ns_date.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/resolv/res_findzonecut.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/isc/irpmarshall.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/resolv/res_debug.h

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/isc/logging.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/resolv/res_update.c
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/dst/support.c
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/ssu.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/peer.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/stat.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/sdb.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/dns/sdb.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/pthreads/thread.c
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/pthreads/mutex.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/lwres_gnba.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/errno2result.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/file.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/entropy.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/fsaccess.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/unix/include/lwres/net.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/include/dst/dst.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccfg/include/isccfg/cfg.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/errno2result.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/os.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/gssapi_link.c

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/once.c
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_cidr_ntop.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_cidr_pton.c
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/sexpr.c
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/bind/inet/inet_netof.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/bind/inet/inet_network.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/bind/inet/inet_makeaddr.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/bind/inet/inet_ntoa.c

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-->

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

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<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
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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>
<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;
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</funcdef>
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<paramdef>void *arg</paramdef>
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void *
</funcdef

</funcprototype>

<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>.

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
are NULL, <parameter>arg</parameter> is unused and should be passed as NULL.

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>. 

<parameter>free_function</parameter>
These use whatever allocations were defined when the context was created with
<function>lwres_context_create()</function>.  
<function>lwres_context_allocmem()</function> allocates
<parameter>len</parameter> bytes of memory and if successful returns a pointer to the allocated storage.
<function>lwres_context_freemem()</function> frees
<parameter>len</parameter> bytes of space starting at location
<parameter>mem</parameter>.

<para>
<para>
<function>lwres_context_sendrecv()</function> performs I/O for the context
<parameter>ctx</parameter>.

Data are read and written from the context's socket.  
It writes data from
<parameter>sendbase</parameter>&mdash;typically a lightweight resolver query packet &mdash; and waits for a reply which is copied to the receive buffer at
<parameter>recvbase</parameter>.

The number of bytes that were written to this receive buffer is returned in
<parameter>*recvd_len</parameter>.

</para>
</refsect1>
<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_context_create()</function> returns
<errorcode>LWRES_R_NOMEMORY</errorcode> if memory for the
<type>struct lwres_context</type> could not be allocated,
<errorcode>LWRES_R_SUCCESS</errorcode> otherwise.
</para>
</para>
Successful calls to the memory allocator
<function>lwres_context_allocmem()</function>
return a pointer to the start of the allocated space. It returns NULL if memory could not be allocated.

<para>
<para>
<errorcode>LWRES_R_SUCCESS</errorcode> is returned when
<function>lwres_context_sendrecv()</function> completes successfully.
<errorcode>LWRES_R_IOERROR</errorcode> is returned if an I/O error occurs and
<errorcode>LWRES_R_TIMEOUT</errorcode> is returned if
<function>lwres_context_sendrecv()</function> times out waiting for a response.

<para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_conf_init</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.

<para>
</refsect1>

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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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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/isc/heap.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/isc/assertions.c
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/sshfp_44.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/stdlib.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/stat.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/nsec_47.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/hash.h

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- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/nsec.h
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/px_26.c
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/kx_36.c
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/tkey.c
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rt_21.c
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/db.c
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdatalist.c
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/print.c
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/print_p.h
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/resolver.h
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/srv_33.c
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/keyvalues.h
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/print.h
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/string.c
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/afsdбой_18.c
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/xfrin.h
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/print.c
- /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/naptr_35.c

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/netscope.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/region.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/ds.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/region.c
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/region.c
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/ds.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/opcode.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/order.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/order.h

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/int.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/socket_p.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/keyboards.h
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<refentrytitle>lwres_gethostent</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>

<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>
#include &lt;lwres/netdb.h&gt;
</funcsynopsisinfo>
<funcprototype>
<funcdef>
struct hostent *
function>lwres_gethostbyname</function>
<paramdef>const char *name</paramdef>
</funcprototype>
<funcdef>
struct hostent *
function>lwres_gethostbyname2</function>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
</funcprototype>
<funcdef>
struct hostent *
function>lwres_gethostbyaddr</function>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
</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>
These functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver. They are similar to the standard functions provided by most operating systems. They use a

```
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 */
};
```

This structure is usually defined in

```
#include &lt;namedb.h&gt;
```

The members of this structure are:

- **h_name**: The official (canonical) name of the host.
<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>

For backward compatibility with very old software,
<constant>h_addr</constant> is the first address in
<constant>h_addr_list</constant>.

A <type>NULL</type> terminated array of network addresses for the host.
Host addresses are returned in network byte order.

For backward compatibility with very old software,
<constant>h_addr</constant> is the first address in
<constant>h_addr_list</constant>.

<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
or NIS. The lightweight resolver does not currently implement these functions; it only provides them as stub functions that always return failure.

<para>

<func>lwres_gethostbyname()</func> and <func>lwres_gethostbyname2()</func> look up the hostname <param>name</param>. <func>lwres_gethostbyname()</func> always looks for an IPv4 address while <func>lwres_gethostbyname2()</func> looks for an address of protocol family <param>af</param>: either <type>PF_INET</type> or <type>PF_INET6</type> &mdash; IPv4 or IPv6 addresses respectively. Successful calls of the functions return a <type>struct hostent</type> for the name that was looked up. <type>NULL</type> is returned if the lookups by <func>lwres_gethostbyname()</func> or <func>lwres_gethostbyname2()</func> fail.

Reverse lookups of addresses are performed by <func>lwres_gethostbyaddr()</func>. <param>addr</param> is an address of length <param>len</param> bytes and protocol family <param>type</param> &mdash; <type>PF_INET</type> or <type>PF_INET6</type>. <func>lwres_gethostbyname_r()</func> is a thread-safe function for forward lookups. If an error occurs, an error code is returned in <param>*error</param>. <param>resbuf</param> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <func>lwres_gethostbyname_r()</func>. <param>buf</param> is a buffer of length <param>len</param> 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 <param>resbuf</param>. Successful calls to <func>lwres_gethostbyname_r()</func> return <param>resbuf</param>, which is a pointer to the <type>struct hostent</type> it created.

Reverse lookups of addresses are performed by <func>lwres_gethostbyaddr_r()</func> is a thread-safe function that performs a reverse lookup of address <param>addr</param> which is <param>len</param> bytes long and is of protocol
family <parameter>type</parameter> &mdash; <type>PF_INET</type> or <type>PF_INET6</type>. If an error occurs, the error code is returned in <parameter>*error</parameter>. The other function parameters are identical to those in <function>lwres_gethostbyname_r()</function>. <parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <function>lwres_gethostbyaddr_r()</function>. <parameter>buf</parameter> is a buffer of length <parameter>len</parameter> bytes which is used to store the <constant>h_name</constant>, <constant>h_aliases</constant>, and <constant>h_addr_list</constant> elements of the <type>struct hostent</type> returned in <parameter>resbuf</parameter>. Successful calls to <function>lwres_gethostbyaddr_r()</function> return <parameter>resbuf</parameter>, which is a pointer to the <function>struct hostent()</function> it created.

</para>

</refsect1>

<refsect1>
<title>RETURN VALUES</title>
<para>
The functions <function>lwres_gethostbyname()</function>, <function>lwres_gethostbyname2()</function>, <function>lwres_gethostbyaddr()</function>, and <function>lwres_gethostent()</function> return NULL to indicate an error. In this case the global variable <type>lwres_h_errno</type> will contain one of the following error codes defined in <filename>&lt;lwres/netdb.h&gt;</filename>:

<variablelist>
  <varlistentry><term><constant>HOST_NOT_FOUND</constant></term>
  <listitem>
  <para>The host or address was not found.
  </para>
  </listitem>
  <varlistentry><term><constant>TRY_AGAIN</constant></term>
  <listitem>
  <para>A recoverable error occurred, e.g., a timeout. Retrying the lookup may succeed.
  </para>
  </listitem>
  <varlistentry><term><constant>NO_RECOVERY</constant></term>
  </listitem>
</variablelist>
A non-recoverable error occurred.
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.

translates these error codes to suitable error messages.

and

Successful calls to lwres_gethostbyname_r() and lwres_gethostbyaddr_r() return NULL if the lookups fail or if buf was too small to hold the list of addresses and names referenced by the h_name, h_aliases, and h_addr_list elements of the struct hostent. If buf was too small, both lwres_gethostbyname_r() and lwres_gethostbyaddr_r() set the global variable errno to ERANGE.
<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>

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/getrrset.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/validator.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/sscfg/parser.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/lwconfig.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/entropy.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/hex.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/byaddr.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/msgs.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/validator.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/entropy.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/socket.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/opensslrsa_link.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/byaddr.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/diff.c

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*/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/syslog.c
*/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind9/check.c

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" $Id: lwres_gabn.3,v 1.1 2004/11/03 01:39:06 abstine Exp$
"
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*/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_gabn.3

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 * By Steve Reid <steve@edmweb.com>
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/a_1.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/null_10.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/txt_16.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/dlv_65323.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/dlv_65323.c

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/dlv_65323.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/dlv_65323.c
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/version.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind9/include/bind9/check.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/version.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/win32/DLLMain.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind9/win32/DLLMain.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccfg/log.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind9/version.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/bind_registry.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccfg/include/isccfg/log.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/version.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccfg/win32/DLLMain.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/strerror.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind9/win32/DLLMain.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/strerror.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/dnskey.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/strerror.c
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/strerror.c
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/* SHA-1 in C
 * By Steve Reid <steve@edmweb.com>
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 *
 * Test Vectors (from FIPS PUB 180-1)
 * "abc"
 * A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D
 * abcdedcedfedefgefghgfhghigjijiklklmmlmnmnopnopq
 * 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1
 * A million repetitions of "a"
 * 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F
 */

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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>
</funcsynopsis>
</refsynopsisdiv>

<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:
</para>

<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>
</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>
<li><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></li>
<varlistentry><term><constant>ai_socktype</constant></term>
<li><para>denotes the type of socket &mdash;
<type>SOCK_STREAM</type>, 
<type>SOCK_DGRAM</type>
or
<type>SOCK_RAW</type>
&mdash; that is wanted. 
When
<constant>ai_socktype</constant>
is zero the caller will accept any socket type.
</para></li>
</variablelist>
indicates which transport protocol is wanted: IPPROTO_UDP or IPPROTO_TCP.
If 

is zero the caller will accept any protocol.

Flag bits.
If the

bit is set, a successful call to

will return a null-terminated string containing the canonical name of the specified hostname in

of the first

structure returned.
Setting the

bit indicates that the returned socket address structure is intended for used in a call to

In this case, if the hostname argument is a

pointer, then the IP address portion of the socket address structure will be set to

for an IPv4 address or

for an IPv6 address.
bit, the returned socket address structure will be ready for use in a call to

```xml
<refentry>
  <refentrytitle>connect</refentrytitle><manvolnum>2
</manvolnum>
</citerefentry>
```
for a connection-oriented protocol or

```xml
<refentry>
  <refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,
```

```xml
<refentry>
  <refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,
```

or

```xml
<refentry>
  <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

```xml
<parameter>hostname</parameter>
is a
```

```xml
?type=NULL</type>
p pointer and
```

```xml
?type=AI_PASSIVE</type>
is not set in
```

```xml
<constant>ai_flags</constant>.
</para>
```

```xml
<para>
If
```

```xml
<constant>ai_flags</constant>
is set to
```

```xml
?type=AI_NUMERICHOST</type>
it indicates that
```

```xml
<parameter>hostname</parameter>
should be treated as a numeric string defining an IPv4 or IPv6 address and no name resolution should be attempted.
```

```xml
</para>
</listitem>
</varlistentry>
</variablelist>
</para>
```

All other elements of the <type>struct addrinfo</type> passed
via <parameter>hints</parameter> must be zero.
</para>

<para>
A <parameter>hints</parameter> of <type>NULL</type> is treated as if the caller provided a <type>struct addrinfo</type> initialized to zero with <constant>ai_family</constant> set to <constant>PF_UNSPEC</constant>. 
</para>

<para>
After a successful call to <function>lwres_getaddrinfo()</function>, <parameter>*res</parameter> is a pointer to a linked list of one or more <type>addrinfo</type> structures. Each <type>struct addrinfo</type> in this list can be processed by following the <constant>ai_next</constant> pointer, until a <type>NULL</type> pointer is encountered. The three members <constant>ai_family</constant>, <constant>ai_socktype</constant>, and <constant>ai_protocol</constant> in each returned <type>addrinfo</type> structure contain the corresponding arguments for a call to <citerefentry><refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum></citerefentry>. For each <type>addrinfo</type> structure in the list, the <constant>ai_addr</constant> member points to a filled-in socket address structure of length <constant>ai_addrlen</constant>. 
</para>

<para>
All of the information returned by <function>lwres_getaddrinfo()</function>
is dynamically allocated: the addrinfo structures, and the socket
address structures and canonical host name strings pointed to by the
<constant>addrinfo</constant>structures.
Memory allocated for the dynamically allocated structures created by
a successful call to
<function>lwres_getaddrinfo()</function>
is released by
<function>lwres_freeaddrinfo()</function>.
<parameter>ai</parameter>
is a pointer to a
<type>struct addrinfo</type>
created by a call to
<function>lwres_getaddrinfo()</function>.
</para>
</refsect1>

<refsect1>
title>RETURN VALUES</title>
<para>
<function>lwres_getaddrinfo()</function>
returns zero on success or one of the error codes listed in
<citerefentry>
<refentrytitle>gai_strerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
</para>
</refsect1>

<refsect1>
title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>,
</citerefentry>
</para>
</refsect1>

<refsect1>
<para>
</refsect1>
</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):
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_getaddrinfo.docbook
No license file was found, but licenses were detected in source scan.
\" $Id: lwres_resutil.3,v 1.1 2004/11/03 01:39:06 abstine Exp $ \\
\" \\

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* 
* @(#)cdefs.h8.7 (Berkeley) 1/21/94 
*/
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/aux3/include/sys/cdefs.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/qnx/include/sys/cdefs.h

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/dns_sv.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/mpe/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nesiod_p.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/getpwent.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/dns_pw.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/nameser/ns_parse.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nesiod.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_ng.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/getnethent.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/aix4/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/sco42/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/hesiod.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/util.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/hesiod.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/hpux/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen_sv.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/dns_pr.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_pton.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/bsdos/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/hpux9/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/lynvos/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/nameser/ns_ttl.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/getprotoent.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_sv.c
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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

Found in path(s):
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$Id: lwres_hstrerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lwres/man/lwres_hstrerror.3

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 */

/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp $ */
#ifndef ISC_PLATFORM_H
#define ISC_PLATFORM_H 1

/*****
***** Platform-dependent defines.
*****/

/****
*** Network.
***/

/*
* Define if this system needs the <netinet/in6.h> header file included
* for full IPv6 support (pretty much only UnixWare).
*/
@ISC_PLATFORM_NEEDINETINETIN6H@

/*
* Define if this system needs the <netinet6/in6.h> header file included
* to support in6_pkinfo (pretty much only BSD/OS).
*/
@ISC_PLATFORM_NEEDINETINET6IN6H@

/*
* 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_NEEDEDIN6ADDRANY will
* be defined.
*/
@ISC_PLATFORM_NEEDEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDEDIN6ADDRLOOPBACK
* will be defined.
*/
@ISC_PLATFORM_NEEDEDIN6ADDRLOOPBACK@
/*
 * 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_HAVEIN6ADDR6
 * will be defined.
 */
@ISC_PLATFORM_HAVEIN6ADDR6@

/*
 * 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 strcat(), ISC_PLATFORM_NEEDSTRLCAT will be defined. */
@ISC_PLATFORM_NEEDSTRLCAT@

/*
 * Define either ISC_PLATFORM_BSD44MSGHDR or ISC_PLATFORM_BSD43MSGHDR.
 */
@ISC_PLATFORM_MSGHDRFLAVOR@

/*
 * Define if PTHREAD_ONCE_INIT should be surrounded by braces to prevent
 * compiler warnings (such as with gcc on Solaris 2.8).
 */
@ISC_PLATFORM_BRACEPTHREADONCEINIT@

/*
 * Define on some UnixWare systems to fix erroneous definitions of various
 * IN6_IS_ADDR_* macros.
 */
@ISC_PLATFORM_FIXIN6ISADDR@

/****
 *** Printing.
 ***/

/*
 * If this system needs vsnprintf() and snprintf(), ISC_PLATFORM_NEEDVSNPRINTF
 * will be defined.
 */
@ISC_PLATFORM_NEEDVSNPRINTF@

/*
 * If this system need a modern sprintf() that returns (int) not (char*).
 */
@ISC_PLATFORM_NEEDSPRINTF@

/*
 * The printf format string modifier to use with isc_uint64_t values.
 */
@ISC_PLATFORM_QUADFORMAT@

/*
 * Defined if we are using threads.
 */
@ISC_PLATFORM_USETHREADS@

/*
 * Defined if unistd.h does not cause fd_set to be declared.
/*
@ISC_PLATFORM_NEEDSYSSELECTH@

/*
* Type used for resource limits.
*/
@ISC_PLATFORM_RLIMITTYPE@

/*
* Define if your compiler supports "long long int".
*/
@ISC_PLATFORM_HAVELONGLONG@

/*
* Define if the system has struct lifconf which is a extended struct ifconf
* for IPv6.
*/
@ISC_PLATFORM_HAVELIFCONF@

/*
* Define if the system has struct if_laddrconf which is a extended struct
* ifconf for IPv6.
*/
@ISC_PLATFORM_HAVEIF_LADDRCONF@

/*
* Define if the system has struct if_laddrreq.
*/
@ISC_PLATFORM_HAVEIF_LADDRREQ@

/*
* Used to control how extern data is linked; needed for Win32 platforms.
*/
@ISC_PLATFORM_USEDECLSPEC@

/*
* Define if the system supports if_nametoindex.
*/
@ISC_PLATFORM_HAVEIFNAMETOINDEX@

/*
* Define if this system needs strtoul.
*/
@ISC_PLATFORM_NEEDSTRTOUL@

/*
* Define if this system needs memmove.
*/
@ISC_PLATFORM_NEEDMEMMOVE@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#define LIBBIND9_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#endif /* ISC_PLATFORM_USEDECLSPEC */

#ifndef LIBISC_EXPORTS
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifndef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifndef LIBISCCC_EXPORTS
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifndef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifndef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif /* ISC_PLATFORM_H */

/*
 * Tell emacs to use C mode for this file.
 *
 * Local Variables:
 * mode: c
 * End:
 */

#endif /* ISC_PLATFORM_H */
/*
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Found in path(s):
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/result.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/time.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/rwlock.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/base64.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/time.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/rwlock.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/task.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mx_15.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/result.c

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*/
Found in path(s):
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gai_strerror.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/hex.c
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-->

<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
<!-- $Id: lwres_resutil.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
  <refentryinfo>
    <date>Jun 30, 2000</date>
  </refentryinfo>
  <refmeta>
    <refentrytitle>lwres_resutil</refentrytitle>
    <manvolnum>3</manvolnum>
    <refmiscinfo>BIND9</refmiscinfo>
  </refmeta>
  <refnamediv>
    <refname>lwres_string_parse</refname>
    <refname>lwres_addr_parse</refname>
    <refname>lwres_getaddrsbyname</refname>
    <refname>lwres_getnamebyaddr</refname>
    <refpurpose>lightweight resolver utility functions</refpurpose>
  </refnamediv>
  <refsynopsisdiv>
    <funcsynopsis>
      #include &lt;lwres/lwres.h&gt;
    </funcsynopsis>
    <funcprototype>
    </funcprototype>
  </refsynopsisdiv>
</refentry>
lwres_result_t
<function>lwres_string_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>char **c</paramdef>
<paramdef>lwres_uint16_t *len</paramdef>
</funcprototype>

lwres_result_t
<function>lwres_addr_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_addr_t *addr</paramdef>
</funcprototype>

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>

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>

DESCRIPTION

 lwres_string_parse() retrieves a DNS-encoded string starting the current pointer of lightweight resolver buffer b: i.e. constant b-&gt;current. 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
<para>
<function>lwres_addr_parse()</function> extracts an address from the buffer <parameter>b</parameter>. The buffer's current pointer <constant>b-&gt;current</constant> is presumed to point at an encoded address: the address preceded by a 32-bit protocol family identifier and a 16-bit length field. The encoded address is copied to <constant>addr-&gt;address</constant> and <constant>addr-&gt;length</constant> indicates the size in bytes of the address that was copied. <constant>b-&gt;current</constant> is advanced to point at the next byte of available data in the buffer following the encoded address.
</para>

<para>
<function>lwres_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_gnbaresponse_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 forward lookups. Hostname <parameter>name</parameter> is looked up using the resolver context <parameter>ctx</parameter> for memory allocation. <parameter>addrtypes</parameter> is a bitmask indicating which type of addresses are to be looked up. Current values for this bitmask are <type>LWRES_ADDRTYPE_V4</type> for IPv4 addresses and <type>LWRES_ADDRTYPE_V6</type> for IPv6 addresses. Results of the lookup are returned in <parameter>*structp</parameter>.
</para>

<para>
<function>lwres_getnamebyaddr()</function> performs reverse lookups. Resolver context <parameter>ctx</parameter> is used for memory allocation. The address type is indicated by <parameter>addrtype</parameter>: <type>LWRES_ADDRTYPE_V4</type> or <type>LWRES_ADDRTYPE_V6</type>. The address to be looked up is given by <parameter>addr</parameter> and its length is <parameter>addrlen</parameter> bytes. The result of the function call is made available through <parameter>*structp</parameter>.
</para>

<refsect1>
<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>

Found in path(s):
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_resutil.docbook
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AC_REVISION($Revision: 1.1 $)

AC_INIT(resolv/herror.c)
AC_PREREQ(2.13)

AC_CONFIG_HEADER(config.h)

AC_CANONICAL_HOST

AC_PROG_MAKE_SET
AC_PROG_RANLIB
AC_PROG_INSTALL

AC_SUBST(STD_CINCLUDES)
AC_SUBST(STD_CDEFINES)
AC_SUBST(STD_CWARNINGS)
AC_SUBST(CCOPT)

AC_PATH_PROG_AR_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-tags)
# 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 $INSTALL | sed 's%.*/%%%'`"
test "Sac_dir" = "$ac_prog" && ac_dir=.
test -d "$ac_dir" && ac_dir="`(cd "$ac_dir" && pwd)`"
INSTALL="Sac_dir/$ac_prog"
"

e

# 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 "$ac_dir" in
    /usr/ucb)" in
    /usr/ucb)
      # exclude
      ;;
    *)
      if test -f "$ac_dir/cc"; then
        CC="$ac_dir/cc"
        break
      fi
    ;;
  esac
"
IFS="$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)
       AC_MSG_ERROR([need either working unistd.h or sys/select.h])
      ];
  esac
  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-grBuild ....],
  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-pwBuild ....],
  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-nisBuild ....],
  want_irs_nis="$withval", want_irs_nis="no")
case "$want_irs_nis" in
  yes)
    WANT_IRS_NISGR_OBJS="${WANT_IRS_NISGR_OBJS}"
  ;;
no)
AC_MSG_ERROR([need either unistd.h or sys/select.h])
  ;;
esac
  ;;
esac
AC_SUBST(WANT_IRS_NIS)

*)
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([#
define 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=""
,\nWANT_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 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,)

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
    *
      -*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.
      #
      #-*bsd3.*|-*bsd4.0*)
        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_GETGRGID_R)
;;
*hpx11*)
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"

;
else
ALWAYS_DEFINES="" 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 "$GCC" = "yes"; then
STD_CWARNINGS="$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="-xM,+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 = "\" $i; a[$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
}

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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],)
case "$use_purify" in
  no)
    ;;
  yes)
    AC_PATH_PROG(purify_path, purify, purify)
    ;;
    *)
    purify_path="$use_purify"
    ;;
    esac
  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
    esac
LIBTOOL_MKDEP_SED='s;\o;\lo;'
LIBTOOL_MODE_COMPILE='--mode=compile'
LIBTOOL_MODE_INSTALL='--mode=install'
LIBTOOL_MODE_LINK='--mode=link'
:: *
O=o
A=a
LIBTOOL=
AC_SUBST(LIBTOOL)
LIBTOOL_MKDEP_SED=
LIBTOOL_MODE_COMPILE=
LIBTOOL_MODE_INSTALL=
LIBTOOL_MODE_LINK=
::
esac

#
# File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a

AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

#
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#
#
#
# IPv6
#
# AC_ARG_ENABLE(ipv6,
[ --enable-ipv6		use IPv6 [default=autodetect]]

case "$enable_ipv6" in
yes|""

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
  *-bsd4.[01]*)
    ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"
    isc_netinet6in6_hack="#include <netinet/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_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"
    ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
    isc_netinetin6_hack="#include <netinet/in6.h>"
    ;;
    *)
    ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
    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>
    #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>
    #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="#define 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="$ISC_EXTRA_OBJS inet_aton.SO"
ISC_EXTRA_SRCS="$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
  *-bsd*[2345]*)have_minimum_ifreq=yes;;
  *-darwin*)have_minimum_ifreq=yes;;
  *-freebsd*)have_minimum_ifreq=yes;;
  *-lynvos*)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";;
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"
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"
USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
PORT_DIR="port/solaris";;
  *-sco-sysv*uw2.0*) PORT_DIR="port/unixware20";;
  *-sco-sysv*uw2.1.2*) PORT_DIR="port/unixware212";;
AC_MSG_CHECKING(for int sethostent)
AC_TRYCompile([  
#include <netdb.h>],  
[int i = sethostent(0); return(0);],  
[AC_MSG_RESULT(yes)],  
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int endhostent)
AC_TRYCompile([  
#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_TRYCompile([  
#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_TRYCompile([  
#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_TRYCompile([  
#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(getnodebyname,
[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"],
[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_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 "%lld" and everyone else can use "%ld". 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) {

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="#define NET_R_SETANSWER"
    NET_R_RETURN="#define NET_R_RETURN struct netent *"
    GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
    NETENT_DATA="#define NETENT_DATA"
    ],
    AC_TRY_COMPILE(
    |
    #undef _REENTRANT
    #define _REENTRANT
    #define _OSF_SOURCE
    #undef __USE_MISC
    #define __USE_MISC
#include <netdb.h>

int getnetbyaddr_r (unsigned long int, int, struct netent *,
    char *, size_t, struct netent **, int *);

[return (0)],

[NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errno"
NET_R_BAD="#define NET_R_BAD ERANGE"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS char *buf, size_t buflen"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#undef NETENT_DATA"
],

AC_TRY_COMPILE(
    []
    #undef _REENTRANT
    #define _REENTRANT
    #define _OSF_SOURCE
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
    ],
    [return (0)],
    [
    NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
    NET_R_BAD="#define NET_R_BAD (-1)"
    NET_R_COPY="#define NET_R_COPY ndptr"
    NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
    NET_R_OK="#define NET_R_OK 0"
    NET_R_SETANSWER="#undef NET_R_SETANSWER"
    NET_R_RETURN="#define NET_R_RETURN int"
    GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
    NETENT_DATA="#define NETENT_DATA 1"
    ],
    AC_TRY_COMPILE(
        #undef __USE_MISC
        #define __USE_MISC
        [#include <netdb.h>
        int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
        ],
        [return (0)],
        [
        NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
        NET_R_BAD="#define NET_R_BAD (-1)"
        ]
    )
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
",
)
)
)
)
)
)
,
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
)
case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long" ;;
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"
].

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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(
    [  
        #ifndef _REENTRANT
        #define _REENTRANT
        #ifndef __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"
    
    
    ,
    ]
)

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 **"
    
    
    ,
    ]
)

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({
    #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="#define HOSTENT_DATA 1"
},
)

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="#define 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(
#define _REENTRANT
#define __USE_MISC
#include <netdb.h>
extern void sethostent_r(int flag, struct hostent_data *ht_data);

 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_TRY_COMPILE(
#undef _REENTRANT
#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 /*empty*/"
 HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"
)

AC_TRY_COMPILE(
#undef _REENTRANT
#undef __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"
)

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
      *bsd* )
        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="#define 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"
        ]
        ,
#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"

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 *"

ACDEFINE(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*/"
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*/"
]
.
.
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(void);
]
)
#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_EVENT="#undef SERV_R_SET_EVENT"
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
    #define __USE_MISC
    #include unistd.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
    #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_BraceThreadonceinit)
ISC_PLATFORM_BraceThreadonceinit="#undef ISC_PLATFORM_BraceThreadonceinit"
BROKEN_IN6Addr_Init_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
  *-bsdi3.1*)
  hack_shutup_sputaux=yes
case "$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 "$hack_shutup_stdargcast" in
    yes)
      #
      # Shut up a -Wcast-qual warning from va_start().
      #
      AC_DEFINE(SHUTUP_STDARG_CAST)
case "$hack_shutup_in6addr_init_macros" in
  yes)
    AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
  esac

#
# Substitutions
#
AC_SUBST(BIND9_TOP_BUILDDIR)
BIND9_TOP_BUILDDIR="pwd"

AC_SUBST_FILE(BIND9_INCLUDES)
BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)
BIND9_MAKE_RULES=$BIND9_TOP_BUILDDIR/make/rules

. $srcdir/../../version
BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELEASEVER}" 
AC_SUBST(BIND9_VERSION)

AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api

AC_OUTPUT(
  make/rules
  make/mkdep
  make/includes
  Makefile
  bsd/Makefile
  dst/Makefile
  include/Makefile
  inet/Makefile
  irs/Makefile
  isc/Makefile
  nameser/Makefile
  port_after.h
  port_before.h
  resolv/Makefile
  port/Makefile
  ${PORT_DIR}/Makefile
  ${PORT_INCLUDE}/Makefile
)
# Tell Emacs to edit this file in shell mode.
# Local Variables:
# mode: sh
# End:

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/configure.in

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/irp_p.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/darwin/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/rhapsody/include/sys/bitypes.h

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MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)

OutputBase = 16

MessageId=0x1
Severity=Error
Facility=Application
SymbolicName=BIND_ERR_MSG
Language=English
%1
.

MessageId=0x2
Severity=Warning
Facility=Application
SymbolicName=BIND_WARN_MSG
Language=English
%1
.

MessageId=0x3
Severity=Informational
Facility=Application
SymbolicName=BIND_INFO_MSG
Language=English
%1
.

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*/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/bind/resolv/res_data.c
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" $Id: lwres_buffer.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_buffer.3
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/assertions.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/assertions.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/list.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/isdn_20.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/compress.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/callbacks.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rdataslab.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rdataslab.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rootns.c
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<!DOCTYPE refentry PUBLIC "-/OASIS//DTD DocBook V4.1//EN">
<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>
      #include &lt;lwres/netdb.h&gt;
    </funcsynopsis>
    <funcprototype>
      int
    </funcprototype>
    <funcdef>
<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>

</refsect1>
<title>DESCRIPTION</title>

<para>
<function>lwres_getrsetbyname()</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_getrsetbyname()</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>ri_rdcld</constant> and
<constant>ri_rdtype</constant> are copied from the parameters.
<constant>ri_ttl</constant> and
<constant>ri_name</constant> are properties of the obtained rset.
The resource records contained in
<constant>ri_rdatas</constant> and
<constant>ri_sigs</constant> are in uncompressed DNS wire format.
Properties of the rdataset are represented in the
<constant>ri_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_getrsetbyname()</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>
</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>
</varlistentry>
<varlistentry><term><constant>ERRSET_NODATA</constant></term>
</varlistentry>
<varlistentry><term><constant>ERRSET_NOMEMORY</constant></term>
</varlistentry>
<varlistentry><term><constant>ERRSET_INVAL</constant></term>
</varlistentry>
<varlistentry><term><constant>ERRSET_FAIL</constant></term>
</varlistentry>
</variablelist>
other failure

SEE ALSO

Found in path(s):
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_getrrsetbyname.docbook
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/*
* eventlib.em
*
* Eventlib error message compiler input file
*
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*/

/*
* The file basename is the facility name, the name is made
* uppercase. This file defines facility EVENTLIB
*/
module {
    description "EVENTLIB system messages";
}
errmsg HISTSUMM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;
format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
arg {
  "int" dispatch_time "event dispatch time"
  "int" elapsed_time "event elapsed time"
  "int" hog_detected "event hog detected"
  "int" set_count "event set count since dispatch"
}
explanation
  "Eventlib historical summary for detected hog.";

action
  "This event summary is part of a CPUHOG or TIMEHOG error, 
  "providing diagnostic details useful to engineering. 
  "Save this summary message along with the HOG error. ";

tac_details
  "Eventlib historical summary for detected hog.";
}

errmsg HISTELEM {
  severity err;
  category software;
  cdets_component iosxe-binos-utils;

  format "elem[%u] event: %s %s set: %llums unset: %llums hog check: %d caller: %p app-info: %s";

  arg {
    "int" set_count "element set count"
    "char **" position_string "event call type"
    "char **" position_string "event condition"
    "int" set_time "element set time"
    "int" unset_time "element unset time"
    "int" hog_check "element hog check result"
    "int" caller "caller builtin return address"
    "char **" any_string "element callback render buffer"
  }
  explanation
    "Eventlib historical element for detected hog.";

  action
    "This event element is part of a CPUHOG or TIMEHOG error, 
    "providing diagnostic details useful to engineering. 
    "Save all element messages along with the HOG error. ";

tac_details
    "Eventlib historical element for detected hog.";
}
1.408 cryptography 3.2 r0

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1.410 vim 8.2 r0

1.411 bridgeutils 1.6 r0

1.412 util-linux 2.32.1

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1.413 libcurl 7.61.1
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==

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## libcurl

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1.414 findutils 4.7.0 r0
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1.420 platform-python-pip 9.0.3

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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:

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:

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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.

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-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
-----------
Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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

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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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Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gm...> - 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.

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

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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

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Nathan Neulinger is the only one who can actually make said change ...
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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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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 ([131.151.1.143]) by scanim-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 09:59:50 -0700 (PDT)
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 11:59:55 -0500
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
> 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.

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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.

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

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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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DRuntime: Runtime Library for the D Programming Language

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1.435 protobuf-c 1.3.3 r0

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* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

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* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
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* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
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* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

1.437 tipcconfig 2.0.6 r0

1.438 lz4 1.9.2 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: */

1.452 i2c-tools 4.1 r0

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If such an object file uses only numerical parameters, data
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1.458 ply 3.11 r0

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# PLY (Python Lex-Yacc) Version 3.11


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

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

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

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

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

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

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

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

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

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

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

    import lex
    import yacc

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

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

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

A simple example is found at the end of this document

Requirements
============

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

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

http://www.dabeaz.com/ply

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

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

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

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

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

The CHANGES file acknowledges those who have contributed patches.

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

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

Example
=======
Here is a simple example showing a PLY implementation of a calculator with variables.
# calc.py
#
# A simple calculator with variables.
#

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

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

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

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

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

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

precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)
# dictionary of names (for storing variables)
names = {}  

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

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

def p_expression_binop(p):
    '''expression : expression PLUS expression  
                 | expression MINUS expression  
                 | expression TIMES expression  
                 | expression DIVIDE expression'''

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

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

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

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

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

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

Bug Reports and Patches

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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1.459 libnghttp2 1.33.0

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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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1.461 python 3.6.8

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A. HISTORY OF THE SOFTWARE

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.

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<th>Year</th>
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man/humanize_number.3bsd
man/timeval.3bsd
src/fmtcheck.c
src/humanize_number.c
src/stringlist.c
src/strtonum.c

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man/expand_number.3bsd
man/flopen.3bsd
man/getpeereid.3bsd
man/pidfile.3bsd
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man/strtonum.3bsd
src/arc4random.c
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src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
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1.465 systemd-bootchart

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1.466 pyyaml 5.3.1 r0

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1.467 systemtap 4.3 r0

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1.468 python3-pycrypto 2.6.1 r0

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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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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);
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-----

#

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

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

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0on your behalf, dedicate to the pu=
blic
domain all your contributions to PyCrypto, with the following notice?
>
=C2=A0The contents of this file are dedicated to the public domain. =C2=A0=
To the
=C2=A0extent that dedication to the public domain is not available, every=
one
=C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=

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

-p
--=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/;
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,
>   >>
>   >> I am the new maintainer of the Python Cryptography Toolkit, and I am
>   >> working on a new release at http://www.pycrypto.org/.
>   >
>   >That's great!
>   >
>   >> I understand that you have made contributions to PyCrypto, under nickname
>   >> "z3p" and/or other names. May I, on your behalf, dedicate to the public
>   >> domain all your contributions to PyCrypto, with the following notice?
>   >>
>   >> ==============================================================
>   >> The contents of this file are dedicated to the public domain. To the
>   >> extent that dedication to the public domain is not available, everyone
>   >> is granted a worldwide, perpetual, royalty-free, non-exclusive license
>   >> to exercise all rights associated with the contents of this file for
>   >> any purpose whatsoever. No rights are reserved.
>   >> ==============================================================
>   >
>   >Yes, that's fine. Good luck with the new release!

   
Perfect! Thanks for the quick response!

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

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

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

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

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

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

--amk (www.amk.ca)

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

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

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

Regards,
- Dwayne
From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003);  2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net

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/.

-----END PGP SIGNED MESSAGE-----
Great! I'm glad to see someone taking up the mantle of this important Python library.

> 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?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLDHI6agk
evkJnSJQAcvVHHznViVeR51XgvDUMakZjU4SOV7MqkhsKA9lIe77PaD9VSYgn3ra5
gElw2DQDoOy5GEoXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjwDRA3wtOrH7
SK4w9VBJtY=3D
=3DQduY
-----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

-----END PGP SIGNED MESSAGE-----
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)
iQCVAwUBSnnAl8UnN8n93LBAQLp/gQAhrt7x8Av1mstc2kxEJDWm26PTAZxMz4B
FkEtbdD0zkxgc5580MGGeeXMVn8aw+1BHg0YD85gsntDNzkQtb+BR/xAvJ5zKyA
J/Mn/I+16ekJQ3juh8IPLAduOXM9Rtguas/yR+Doaq0xOPKoBx+/5+t1LJtBcZ
wrPEa9Oui9s=
=SY9
-----END PGP SIGNATURE-----
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".)

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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'd like to take steps to move toward a=20
clearer licensing regime. I'm asking as many copyright holders as I can=20
find, starting with you, if I can release PyCrypto under something clearer=20
and more standard. Below, I have quoted a public domain dedication that=20
was recommended in _Intellectual Property and Open Source: A Practical=20

May I, on your behalf, dedicate to the public domain your considerable=20
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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

--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)
iEYEARECAAYFAkko52lAcgkQHBBG4d+eAS0XPPQClcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33aZjkteyJaTbzEqImOEW8JGpf
=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>
Delivered-To: amk@amk.ca
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: (qmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 12:51:52 -0000
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 by uid 1003); 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
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

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/.
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country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================

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(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
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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 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 <dwn@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 <dwn@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 k29so125333rvb.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/ksRquHwaOZyJQBUs4Yvt5mI20U6mi/g=;
    b=oMjI221lxYjIKge2zNJW3rTiJLqFXmey5Wp0pLtuNF+X3duyfhopTuBAKw7MwVY
    B5F6vQVzGVEyzBnNsteyVgq6DhQtouCLZymSViobmuDMKn5Dtk0xvCxQmHyas
    L9/A6D3/Jf6kkRkBtx9zmc0GPzZTvIFVYkPR0Q=
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=Ym7CStuDEFJKay1AJyWzKzn2lNnCtcwG6akBHAXLd8ht6PFcmSfzzZG8hJCIJ8
    vlqjCT+G6cywVTBw1pyGXT7ECYzro+vhGvgdpACGrss24zihHFpSSd5GFogzXaLVvGVH8p
    bqSHpWKfE4gAQkiNeQl1GntR2j8U3fnRyg=
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=000e0cd209d0e5a3d404646a23054
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/.
>
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>
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People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

```
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```

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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 Pintar, and Wim Lewis, and they have all approved the following text for their contributions.

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I understand that you have made contributions to PyCrypto. On your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice:
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extent that dedication to the public domain is not available, everyone to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,

- Dwayne

--

Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>

=0A=0AKey-signing key =0A - 19E1 1FE8 B3CF F273 ED17 =0A4A24 928C EC1=39C2 5CF7<br>
</font></blockquote></div>

--000e0cd209d0e5a3d40464a23054--

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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

Developer's Certificate of Origin 1.1

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

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.
(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

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

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

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

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

=== EOF ===

Hi Joris,

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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 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])
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!

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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 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.gs91ps7hg08wwwok@www.webmail.vuurwerk.nl>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=floowed
Content-Disposition: inline
In-Reply-To: <20090505090825.gs91ps7hg08wwwok@www.webmail.vuurwerk.nl>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3863

Excellent! Thank you!

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
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)
Delivered-To: m-dlitz-dlitz@dltiz.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@dltiz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dltiz.net
Message-ID: 
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024;
b=0vqxbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=F2h2hFzpQxyKFZ8BhenniyupGw4Zvlekb9Bsk91qKU+51W/TkSGBj5YZhhlQdKqQlzoZ5f4g8dT6bOME3s
63caOAl0e8ECT/ejADW5i2zXfvmVQACh TbTqmpsbMqNQnTQS9iZ+1nrG+3UwtUSGfX7fhEwmI9P/HBxzf9Wp4b3j

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=6RShFF5vQLg+9cnltxKuo4Rs4IVxXF6dq0PQrMyRcxeFoeohbuTE35grGqtomOJLwM0+mZwRb6rGkJd7
63caOAl0e8ECT/ejADW5i2zXfvmVQACh TbTqmpsbMqNQnTQS9iZ+1nrG+3UwtUSGfX7fhEwmI9P/HBxzf9Wp4b3j
eos;
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
FrK8aWVMVM1mFtJpLPGBubCLjbUQC.1.JkIAKUHSFsFn79PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAfY
4vZSnfT8wnCkmZNZ_g6k.XUc3ipo_6e.92TXl4p8MxDAF1tpNF5nXPwcQ7aRe8j7GoWWVJYVyp50cIsUF5
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onq8h_TmzX9g84Bln9g_3f4WXSXm6g6.2016wYpTKPWezlUQAaNS3sV_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@dltiz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Open Source Used In IOSXE Releases 17.9.1-images 6516
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/.
> People often ask me what license PyCrypto is covered by, if
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(www.amk.ca)

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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:

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(www.amk.ca)

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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, Wim Lewis, Jeethu Rao, and Barry Warsaw, 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

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
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On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

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robey

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~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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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.

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

b) Use a suitable shared library mechanism for linking with the
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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
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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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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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b) Convey the object code in, or embodied in, a physical product
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This option is useful when you wish to copy part of the code of
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**1.480 traceroute 2.1.0**

**1.480.1 Available under license :**

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1.481 httping 2.5 r0

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1.482 ncurses 6.1

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1.483 libcap-ng 0.7.11 r0
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1.484 base-files 3.0.14 r89

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```python
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',
        ]
    }

    setup(**arguments)
```
'Operating System :: OS Independent',
'Programming Language :: Python',
'Programming Language :: Python :: 2',
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: 3.7',
'Programming Language :: Python :: 3.8',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
}
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1308206678_1649992634.3/0/kjd-idna-v2-10-0-ge5c11db-tar-gz/kjd-idna-b8defb9/setup.py

1.486 sqlite-libs 3.26.0
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1.491 curl 7.61.1

1.491.1 Available under license :

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!

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## libcurl

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## libressl

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## c-ares
(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

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## libssh2

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

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1.492 ipcalc 0.2.3 r0

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