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1.3 libcap 2.26

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1.5 jsonpointer 2.0 r0

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1.6 libdnf 0.55.0

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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/isc/eventlib.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/ev_connects.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/eventlib_p.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/ev_timers.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/ev_files.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/isc/misc.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/eventlib.c

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/dst_internal.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/dst_parse.h

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/soa_6.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rdatatype.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/version.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/iscconf/version.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/condition.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/null_10.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/util.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/condition.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ns_2.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/time.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/mutex.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mb_7.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ns_2.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/time.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mr_9.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/md_3.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/minfo_14.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mx_15.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/minfo_14.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/md_3.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rdataclass.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/win32/version.c

- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/threads/include/isc/thread.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/txt_16.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/threads/condition.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/eventclass.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/error.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/a_1.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/boolean.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/threads/include/isc/condition.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/cname_5.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mg_8.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/thread.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/error.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/hinfo_13.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/proforma.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mg_8.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/cname_5.c

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/resolv/res_comp.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/resolv/res_mkquery.c

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

Found in path(s):

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_getrrsetbyname.3

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/*
* msg_eventlib.c - Error messages for evlib
*
* January 2007, Vikram Visweswaraiah
*
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 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/ev_streams.c
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 *
 * BINOS specific changes to associate memcluster with an evctx
 *
 * March 2014, Aswin Kuppusami
 */

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/memcluster_binos.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/memcluster_p.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/irp_sv.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/irp_ho.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/irp_nw.c

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

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_gabn</refentrytitle>

<manvolnum>3</manvolnum>

```

<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
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<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>
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<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
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<paramdef>lwres_gabnrequest_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
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<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
<funcprototype>
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<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
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<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>
<refsect1>
<title>DESCRIPTION</title>
<para>
These are low-level routines for creating and parsing
lightweight resolver name-to-address lookup request and
response messages.
</para><para>
There are four main functions for the getaddrbyname opcode.
One render function converts a getaddrbyname request structure &mdash;
<type>lwres_gabnrequest_t</type> &mdash;
to the lightweight resolver's canonical format.
It is complemented by a parse function that converts a packet in this
canonical format to a getaddrbyname request structure.
Another render function converts the getaddrbyname response structure &mdash;
<type>lwres_gabnresponse_t</type> &mdash;
to the canonical format.
This is complemented by a parse function which converts a packet in
canonical format to a getaddrbyname response structure.
</para>
<para>
These structures are defined in
<filename>&lt;lwres/lwres.h&gt;</filename>.
They are shown below.
<programlisting>
#define LWRES_OPCODE_GETADDRSBYNAME    0x00010001U

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

typedef struct {

```

```

    lwres_uint32_t flags;
    lwres_uint32_t addrtypes;
    lwres_uint16_t namelen;
    char          *name;
} lwres_gabnrequest_t;

```

```

typedef struct {
    lwres_uint32_t    flags;
    lwres_uint16_t    naliases;
    lwres_uint16_t    naddrs;
    char             *realname;
    char             **aliases;
    lwres_uint16_t    realnamelen;
    lwres_uint16_t    *aliaslen;
    lwres_addrlist_t  addrs;
    void             *base;
    size_t            baselen;
} lwres_gabnresponse_t;

```

</programlisting>

</para>

<para>

<function>lwres_gabnrequest_render()</function>

uses resolver context

<parameter>ctx</parameter>

to convert getaddrbyname request structure

<parameter>req</parameter>

to canonical format.

The packet header structure

<parameter>pkt</parameter>

is initialised and transferred to

buffer

<parameter>b</parameter>.

The contents of

<parameter>*req</parameter>

are then appended to the buffer in canonical format.

<function>lwres_gabnresponse_render()</function>

performs the same task, except it converts a getaddrbyname response structure

<type>lwres_gabnresponse_t</type>

to the lightweight resolver's canonical format.

</para>

<para>

<function>lwres_gabnrequest_parse()</function>

uses context

<parameter>ctx</parameter>

to convert the contents of packet

<parameter>pkt</parameter>

to a

<type>lwres_gabnrequest_t</type>

structure.

Buffer

<parameter>b</parameter>

provides space to be used for storing this structure.

When the function succeeds, the resulting

<type>lwres_gabnrequest_t</type>

is made available through

<parameter>*structp</parameter>.

<function>lwres_gabnresponse_parse()</function>

offers the same semantics as

<function>lwres_gabnrequest_parse()</function>

except it yields a

<type>lwres_gabnresponse_t</type>

structure.

</para>

<para>

<function>lwres_gabnresponse_free()</function>

and

<function>lwres_gabnrequest_free()</function>

release the memory in resolver context

<parameter>ctx</parameter>

that was allocated to the

<type>lwres_gabnresponse_t</type>

or

<type>lwres_gabnrequest_t</type>

structures referenced via

<parameter>structp</parameter>.

Any memory associated with ancillary buffers and strings for those structures is also discarded.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The getaddrbyname opcode functions

<function>lwres_gabnrequest_render()</function>,

<function>lwres_gabnresponse_render()</function>

<function>lwres_gabnrequest_parse()</function>

and

<function>lwres_gabnresponse_parse()</function>

all return

<errorcode>LWRES_R_SUCCESS</errorcode>

on success.

They return

<errorcode>LWRES_R_NOMEMORY</errorcode>

if memory allocation fails.

<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>

is returned if the available space in the buffer

<parameter>b</parameter>

is too small to accommodate the packet header or the

<type>lwres_gabnrequest_t</type>

and

<type>lwres_gabnresponse_t</type>

structures.

<function>lwres_gabnrequest_parse()</function>

and

<function>lwres_gabnresponse_parse()</function>

will return

<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>

if the buffer is not empty after decoding the received packet.

These functions will return

<errorcode>LWRES_R_FAILURE</errorcode>

if

<structfield>pktflags</structfield>

in the packet header structure

<type>lwres_lwpacket_t</type>

indicate that the packet is not a response to an earlier query.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres_packet</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

</para>

</refsect1>

</refentry>

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* This is the header file for the MD5 message-digest algorithm.

* The algorithm is due to Ron Rivest. This code was

* written by Colin Plumb in 1993, no copyright is claimed.

* This code is in the public domain; do with it what you wish.

*

* Equivalent code is available from RSA Data Security, Inc.

* This code has been tested against that, and is equivalent,

* except that you don't need to include two pages of legalese

* with every copy.

*

* To compute the message digest of a chunk of bytes, declare an

* MD5Context structure, pass it to MD5Init, call MD5Update as

* needed on buffers full of bytes, and then call MD5Final, which

* will fill a supplied 16-byte array with the digest.

*

* Changed so as no longer to depend on Colin Plumb's `usual.h'

* header definitions; now uses stuff from dpkg's config.h

* - Ian Jackson <ijackson@nyx.cs.du.edu>.

* Still in the public domain.

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 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/hpux/include/sys/cdefs.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/hpux9/include/sys/cdefs.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/unixware20/include/sys/cdefs.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/aix4/include/sys/cdefs.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/sunos/include/sys/cdefs.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/irix/include/sys/cdefs.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/unixware212/include/sys/cdefs.h
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 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/lynxos/include/sys/cdefs.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/hpux10/include/sys/cdefs.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/mpe/include/sys/cdefs.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/next/include/sys/cdefs.h

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

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_getipnode</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres_getipnodebyname</refname>

<refname>lwres_getipnodebyaddr</refname>

<refname>lwres_freehostent</refname>

<refpurpose>lightweight resolver nodename / address translation API</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

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

<funcprototype>

<funcdef>

struct hostent *

<function>lwres_getipnodebyname</function></funcdef>

<paramdef>const char *name</paramdef>

<paramdef>int af</paramdef>

<paramdef>int flags</paramdef>

<paramdef>int *error_num</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

struct hostent *

<function>lwres_getipnodebyaddr</function></funcdef>

<paramdef>const void *src</paramdef>

<paramdef>size_t len</paramdef>

<paramdef>int af</paramdef>

<paramdef>int *error_num</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres_freehostent</function></funcdef>

<paramdef>struct hostent *he</paramdef>

</funcprototype>

</functsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>

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

<para>
They use a
<type>struct hostent</type>
which is defined in
<filename>namedb.h</filename>:
<programlisting>
struct hostent {
 char *h_name; /* official name of host */
 char **h_aliases; /* alias list */
 int h_addrtype; /* host address type */
 int h_length; /* length of address */
 char **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
</programlisting>
</para>

<para>
The members of this structure are:
<variablelist>
<varlistentry><term><constant>h_name</constant></term>
<listitem>
<para>

The official (canonical) name of the host.

</para>
</listitem></varlistentry>
<varlistentry><term><constant>h_aliases</constant></term>
<listitem>

<para>
A NULL-terminated array of alternate names (nicknames) for the host.

</para>
</listitem></varlistentry>
<varlistentry><term><constant>h_addrtype</constant></term>
<listitem>

<para>
The type of address being returned - usually

<type>PF_INET</type>
or
<type>PF_INET6</type>.

</para>
</listitem></varlistentry>
<varlistentry><term><constant>h_length</constant></term>
<listitem>

<para>
The length of the address in bytes.

</para>
</listitem></varlistentry>
<varlistentry><term><constant>h_addr_list</constant></term>
<listitem>

<para>

A
<type>NULL</type>
terminated array of network addresses for the host.
Host addresses are returned in network byte order.

</para>
</listitem></varlistentry>
</variablelist>

</para>
<para>
<function>lwres_getipnodebyname()</function>
looks up addresses of protocol family
<parameter>af</parameter>

for the hostname
<parameter>name</parameter>.

The
<parameter>flags</parameter>
parameter contains ORed flag bits to
specify the types of addresses that are searched
for, and the types of addresses that are returned.

The flag bits are:
<variablelist>
<varlistentry><term><constant>AI_V4MAPPED</constant></term>
<listitem>

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

</para>
</listitem></varlistentry>
<varlistentry><term><constant>AI_ALL</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF_INET6, and causes all known addresses (IPv6 and IPv4) to be returned. If AI_V4MAPPED is also set, the IPv4 addresses are return as mapped IPv6 addresses.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI_ADDRCONFIG</constant></term>

<listitem>

<para>

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

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI_DEFAULT</constant></term>

<listitem>

<para>

This default sets the

<constant>AI_V4MAPPED</constant>

and

<constant>AI_ADDRCONFIG</constant>

flag bits.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<function>lwres_getipnodebyaddr()</function>

performs a reverse lookup

of address

<parameter>src</parameter>

which is

<parameter>len</parameter>

bytes long.

<parameter>af</parameter>

denotes the protocol family, typically

<type>PF_INET</type>

or

<type>PF_INET6</type>.

</para>

<para>

<function>lwres_freehostent()</function>

releases all the memory associated with

the

<type>struct hostent</type>
pointer
<parameter>he</parameter>.

Any memory allocated for the
<constant>h_name</constant>,

<constant>h_addr_list</constant>
and
<constant>h_aliases</constant>
is freed, as is the memory for the
<type>hostent</type>
structure itself.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

If an error occurs,

<function>lwres_getipnodebyname()</function>

and

<function>lwres_getipnodebyaddr()</function>

set

<parameter>*error_num</parameter>

to an appropriate error code and the function returns a

<type>NULL</type>

pointer.

The error codes and their meanings are defined in

<filename><lwres/netdb.h></filename>:

<variablelist>

<varlistentry><term><constant>HOST_NOT_FOUND</constant></term>

<listitem>

<para>

No such host is known.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO_ADDRESS</constant></term>

<listitem>

<para>

The server recognised the request and the name but no address is
available. Another type of request to the name server for the
domain might return an answer.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>TRY_AGAIN</constant></term>

<listitem>

<para>

A temporary and possibly transient error occurred, such as a

failure of a server to respond. The request may succeed if
retried.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO_RECOVERY</constant></term>

</listitem>

<para>

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

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<citerefentry>

<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

translates these error codes to suitable error messages.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>RFC2553</refentrytitle>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_gethostent</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_getnameinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

</para>

</refsect1>

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/openssldsa_link.c

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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/getnetgrent_r.c
- * /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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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/sterror.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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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/openssl_link.c

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/zonekey.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/refcount.h

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/* \$Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp \$ */

#ifndef LWRES_PLATFORM_H

#define LWRES_PLATFORM_H 1

/*

***** Platform-dependent defines.

*****/

/*

*** Network.

***/*

/*

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

*/

@LWRES_PLATFORM_NEEDNETINETIN6H@

/*

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

*/

@LWRES_PLATFORM_NEEDNETINET6IN6H@

/*

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

*/

@LWRES_PLATFORM_HAVESALEN@

/*

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

*/

@LWRES_PLATFORM_HAVEIPV6@

/*

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

*/

@LWRES_PLATFORM_NEEDIN6ADDRANY@

/*

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

*/

@LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*

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

*/

@LWRES_PLATFORM_HAVEINADDR6@

/*

* Defined if unistd.h does not cause fd_set to be declared.

*/

@LWRES_PLATFORM_NEEDSYSSELECTH@

/*

* Used to control how extern data is linked; needed for Win32 platforms.

*/

@LWRES_PLATFORM_USEDECLSPEC@

/*

* Defined this system needs vsnprintf() and snprintf().

*/

@LWRES_PLATFORM_NEEDVSNPRINTF@

/*

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

*/

@LWRES_PLATFORM_NEEDSPRINTF@

#ifndef LWRES_PLATFORM_USEDECLSPEC

#define LIBLWRES_EXTERNAL_DATA

#else

#ifdef LIBLWRES_EXPORTS

#define LIBLWRES_EXTERNAL_DATA __declspec(dllexport)

#else

#define LIBLWRES_EXTERNAL_DATA __declspec(dllimport)

#endif

#endif

#endif /* LWRES_PLATFORM_H */

Found in path(s):

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/platform.h.in

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.\" \$Id: bitncmp.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/dns/name.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/result.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/types.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/gen.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/name.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/socket.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/sockaddr.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/time.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rcode.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rdata.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/lex.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/task.c

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

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_config</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres_conf_init</refname>

<refname>lwres_conf_clear</refname>

<refname>lwres_conf_parse</refname>

<refname>lwres_conf_print</refname>

<refname>lwres_conf_get</refname>

<refpurpose>lightweight resolver configuration</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

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

<funcprototype>

<funcdef>

void

<function>lwres_conf_init</function></funcdef>

<paramdef>lwres_context_t *ctx</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres_conf_clear</function></funcdef>

<paramdef>lwres_context_t *ctx</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

lwres_result_t

<function>lwres_conf_parse</function></funcdef>

<paramdef>lwres_context_t *ctx</paramdef>

<paramdef>const char *filename</paramdef>

</funcprototype>

```

<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_print</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>FILE *fp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_conf_t *
<function>lwres_conf_get</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

```

```

<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_conf_init()</function>
creates an empty
<type>lwres_conf_t</type>
structure for lightweight resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_clear()</function>
frees up all the internal memory used by
that
<type>lwres_conf_t</type>
structure in resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_parse()</function>
opens the file
<parameter>filename</parameter>
and parses it to initialise the resolver context
<parameter>ctx</parameter>'s
<type>lwres_conf_t</type>
structure.
</para>
<para>
<function>lwres_conf_print()</function>
prints the
<type>lwres_conf_t</type>
structure for resolver context
<parameter>ctx</parameter>

```

to the

<type>FILE</type>

<parameter>fp</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres_conf_parse()</function>

returns

<errorcode>LWRES_R_SUCCESS</errorcode>

if it successfully read and parsed

<parameter>filename</parameter>.

It returns

<errorcode>LWRES_R_FAILURE</errorcode>

if

<parameter>filename</parameter>

could not be opened or contained incorrect

resolver statements.

</para>

<para>

<function>lwres_conf_print()</function>

returns

<errorcode>LWRES_R_SUCCESS</errorcode>

unless an error occurred when converting the network addresses to a numeric host address string.

If this happens, the function returns

<errorcode>LWRES_R_FAILURE</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>resolver</refentrytitle><manvolnum>5</manvolnum>

</citerefentry>.

</refsect1>

<refsect1>

<title>FILES</title>

<para>

<filename>/etc/resolv.conf</filename>

</para>

</refsect1>

</refentry>

Found in path(s):

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_config.docbook

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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/dns/ds.c

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/logging.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/isc/logging.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/nameser/ns_print.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/resolv/res_update.c
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/dns_p.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/resolv/res_mkupdate.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/lcl.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/dns.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/getgrent.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/lcl_ng.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/dns_gr.c
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/ssu.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/peer.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/stat.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/string.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sdb.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/ssu.h
- * /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/iscconf/include/iscconf/cfg.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/errno2result.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/os.c
- * /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/lwres/getaddrinfo.c
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Found in path(s):

```

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/dir.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rbtdb64.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/lib.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rbtdb64.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/stdtime.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/time.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/syslog.h

```

- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/unspec_103.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/app.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/lang.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/nsap_22.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/once.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/bitstring.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/stdtime.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/gen-unix.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rootns.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/compress.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/dst_result.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/srv_33.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/dbtable.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/fixedname.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/bufferlist.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/bufferlist.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rbtdb.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/naptr_35.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/dir.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/journal.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/netdb.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/lfsr.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/commandline.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rp_17.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/msgcat.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/interfaceiter.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/app.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rp_17.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/int.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/nls/msgcat.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/callbacks.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/tkey.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/dbiterator.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/int.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/sig_24.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/include/dst/lib.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/cert_37.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/dir.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/rdatastructpre.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/secproto.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/a6_38.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/taskpool.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/base64.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/bitstring.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/stdtime.c
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/key_25.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/tcpmsg.c
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/netdb.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/serial.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rdatalist.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/lib.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/resultclass.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/lib.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/keyflags.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/include/dst/result.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/cache.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/magic.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/pthreads/include/isc/once.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/cert.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rdatasetiter.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/ttl.c
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/syslog.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/kx_36.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/dir.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/mutexblock.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/tests/include/tests/t_api.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/mutexblock.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/dbtable.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/hs_4/a_1.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/dbiterator.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/x25_19.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/rdatastructsuf.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/lwpacket.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/ttl.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/secalg.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/ipv6.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/afsdb_18.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/wks_11.h

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/irp.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/irp_ng.c

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/isc/ctl.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/ctl_srvr.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/ctl_p.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_cidr_ntop.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_cidr_pton.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/ctl_clnt.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/resolv/res_mkupdate.h

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 .\"
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 .\"

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_config.3

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*

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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/dst/md5_dgst.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/dst/md5_loc1.h

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 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/inet_ntop.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/symtab.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/lwinetpton.c

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 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/events.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/alist.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/ccmsg.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/symtab.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/lib.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/sexpr.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/symtab.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/types.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/base64.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/alist.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/util.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/symtype.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/iscxx/base64.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/lib.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/iscxx/sexpr.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/iscxx/include/iscxx/cc.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_netof.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_network.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_makeaddr.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_ntoa.c

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 */

/*
 * Get the response to 'request' by filling in 'message'.
 *
 * 'options' is passed to dns_message_parse(). See dns_message_parse()
 * for more details.
 *
 * Requires:
```

*
 * 'request' is a valid request for which the caller has received the
 * completion event.
 *
 * The result code of the completion event was ISC_R_SUCCESS.
 *
 * Returns:
 *
 * ISC_R_SUCCESS
 *
 * Any result that dns_message_parse() can return.
 */

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/request.h

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

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_context</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres_context_create</refname>

<refname>lwres_context_destroy</refname>

<refname>lwres_context_nextserial</refname>

<refname>lwres_context_initserial</refname>

<refname>lwres_context_freemem</refname>

<refname>lwres_context_allocmem</refname>

<refname>lwres_context_sendrecv</refname>

<refpurpose>lightweight resolver context management</refpurpose>

</refnamediv>

<refsynopsisdiv>

```

<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_context_create</function></funcdef>
<paramdef>lwres_context_t **contextp</paramdef>
<paramdef>void *arg</paramdef>
<paramdef>lwres_malloc_t malloc_function</paramdef>
<paramdef>lwres_free_t free_function</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_context_destroy</function></funcdef>
<paramdef>lwres_context_t **contextp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_initserial</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t serial</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_uint32_t
<function>lwres_context_nextserial</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_freemem</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>void *mem</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_allocmem</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void *

```



```

<function>lwres_context_sendrecv</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>void *sendbase</paramdef>
<paramdef>int sendlen</paramdef>
<paramdef>void *recvbase</paramdef>
<paramdef>int recvlen</paramdef>
<paramdef>int *recvd_len</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>
<refsect1>

```

```

<title>DESCRIPTION</title>

```

```

<para>

```

```

<function>lwres_context_create()</function>

```

creates a

```

<type>lwres_context_t</type>

```

structure for use in lightweight resolver operations.

It holds a socket and other data needed for communicating with a resolver daemon.

The new

```

<type>lwres_context_t</type>

```

is returned through

```

<parameter>contextp</parameter>,

```

a pointer to a

```

<type>lwres_context_t</type>

```

pointer. This

```

<type>lwres_context_t</type>

```

pointer must initially be NULL, and is modified

to point to the newly created

```

<type>lwres_context_t</type>.

```

```

</para>

```

```

<para>

```

When the lightweight resolver needs to perform dynamic memory allocation, it will call

```

<parameter>malloc_function</parameter>

```

to allocate memory and

```

<parameter>free_function</parameter>

```

to free it. If

```

<parameter>malloc_function</parameter>

```

and

```

<parameter>free_function</parameter>

```

are NULL, memory is allocated using

.Xr malloc 3

and

<citrefentry>
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>
</citrefentry>.

It is not permitted to have a NULL
<parameter>malloc_function</parameter>
and a non-NULL
<parameter>free_function</parameter>
or vice versa.
<parameter>arg</parameter>
is passed as the first parameter to the memory
allocation functions.

If
<parameter>malloc_function</parameter>
and
<parameter>free_function</parameter>
are NULL,
<parameter>arg</parameter>

is unused and should be passed as NULL.

</para>
<para>

Once memory for the structure has been allocated,
it is initialized using

<citrefentry>
<refentrytitle>lwres_conf_init</refentrytitle><manvolnum>3</manvolnum>
</citrefentry>

and returned via
<parameter>*contextp</parameter>.

</para>
<para>
<function>lwres_context_destroy()</function>
destroys a
<type>lwres_context_t</type>,

closing its socket.
<parameter>contextp</parameter>
is a pointer to a pointer to the context that is to be destroyed.
The pointer will be set to NULL when the context has been destroyed.

</para>
<para>

The context holds a serial number that is used to identify resolver
request packets and associate responses with the corresponding requests.
This serial number is controlled using
<function>lwres_context_initserial()</function>
and

<function>lwres_context_nextserial()</function>.

<function>lwres_context_initserial()</function>

sets the serial number for context

<parameter>*ctx</parameter>

to

<parameter>serial</parameter>.

<function>lwres_context_nextserial()</function>

increments the serial number and returns the previous value.

</para>

<para>

Memory for a lightweight resolver context is allocated and freed using

<function>lwres_context_allocmem()</function>

and

<function>lwres_context_freemem()</function>.

These use whatever allocations were defined when the context was created with

<function>lwres_context_create()</function>.

<function>lwres_context_allocmem()</function>

allocates

<parameter>len</parameter>

bytes of memory and if successful returns a pointer to the allocated storage.

<function>lwres_context_freemem()</function>

frees

<parameter>len</parameter>

bytes of space starting at location

<parameter>mem</parameter>.

</para>

<para>

<function>lwres_context_sendrecv()</function>

performs I/O for the context

<parameter>ctx</parameter>.

Data are read and written from the context's socket.

It writes data from

<parameter>sendbase</parameter>

— typically a lightweight resolver query packet —

and waits for a reply which is copied to the receive buffer at

<parameter>recvbase</parameter>.

The number of bytes that were written to this receive buffer is returned in

<parameter>*recvd_len</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres_context_create()</function>

returns

<errorcode>LWRES_R_NOMEMORY</errorcode>

if memory for the

<type>struct lwres_context</type>

could not be allocated,

<errorcode>LWRES_R_SUCCESS</errorcode>

otherwise.

</para>

<para>

Successful calls to the memory allocator

<function>lwres_context_allocmem()</function>

return a pointer to the start of the allocated space.

It returns NULL if memory could not be allocated.

</para>

<para>

<errorcode>LWRES_R_SUCCESS</errorcode>

is returned when

<function>lwres_context_sendrecv()</function>

completes successfully.

<errorcode>LWRES_R_IOERROR</errorcode>

is returned if an I/O error occurs and

<errorcode>LWRES_R_TIMEOUT</errorcode>

is returned if

<function>lwres_context_sendrecv()</function>

times out waiting for a response.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres_conf_init</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>

</manvolnum>

</citerefentry>.

</para>

</refsect1>

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/lcl_pr.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/lcl_pw.c

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/resolv/res_init.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/resolv/res_send.c

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/*

* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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*

* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.

*

* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.

*/

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/isc/memcluster.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/memcluster.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/bsd/utimes.c

* /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/isc/assertions.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/cygwin/include/ansi_realloc.h

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 * /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/ifiter_getifaddrs.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/stat.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/portlist.c
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 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/nsec_47.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/px_26.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/kx_36.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/tkey.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rt_21.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/db.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdatalist.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/print.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/print_p.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/tkey_249.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/resolver.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/srv_33.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/log.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/keyvalues.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/print.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/nsec.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/string.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/afsd_b_18.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/xfrin.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/print.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/naptr_35.c

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/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/dns/sec/dst/dst_openssl.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/win32/lwconfig.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/win32os.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/netscope.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ds_43.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/opcode.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/apl_42.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/order.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ds_43.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/apl_42.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/iscconf/include/iscconf/namedconf.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/order.h

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- */

Found in path(s):

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/bsd/setenv.c

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*/

Found in path(s):

- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/stdio.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/offset.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/int.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/forward.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/gai_strerror.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/win32/include/lwres/net.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/keytable.c
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/errno2result.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/forward.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/entropy.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/quota.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/lwres_grbn.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/keyboard.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/resource.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/win32/bindevt/bindevt.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/result.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/ipv6.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/fsaccess.c
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/soa.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/context_p.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/resource.c
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/nothreads/thread.c
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/lookup.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/win32/include/lwres/netdb.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/ondestroy.c
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/hmacmd5.c
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/os.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/nothreads/include/isc/condition.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/offset.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/keyboard.c
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/lwres_noop.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/formatcheck.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/lwresutil.c
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/netdb.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/ondestroy.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/nothreads/mutex.c

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-->

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

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<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

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<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

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<refnamediv>

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<refname>lwres_gethostbyname2</refname>

<refname>lwres_gethostbyaddr</refname>

<refname>lwres_gethostent</refname>

<refname>lwres_sethostent</refname>

<refname>lwres_endhostent</refname>

<refname>lwres_gethostbyname_r</refname>

<refname>lwres_gethostbyaddr_r</refname>

<refname>lwres_gethostent_r</refname>

<refname>lwres_sethostent_r</refname>

<refname>lwres_endhostent_r</refname>

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

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

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

<funcprototype>

<funcdef>

struct hostent *

<function>lwres_gethostbyname</function></funcdef>

<paramdef>const char *name</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

struct hostent *

```

<function>lwres_gethostbyname2</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr_r</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
<paramdef>struct hostent *resbuf</paramdef>

```

```

<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
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struct hostent *
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<refsect1>
<title>DESCRIPTION</title>
<para>
These functions provide hostname-to-address and
address-to-hostname lookups by means of the lightweight resolver.
They are similar to the standard
<citrefentry>
<refentrytitle>gethostent</refentrytitle><manvolnum>3
</manvolnum>
</citrefentry>
functions provided by most operating systems.
They use a
<type>struct hostent</type>
which is usually defined in
<filename>&lt;namedb.h&gt;</filename>.

<programlisting>
struct hostent {
    char    *h_name;      /* official name of host */
    char    **h_aliases;  /* alias list */

```

```

    int    h_addrtype; /* host address type */
    int    h_length;   /* length of address */
    char   **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */

```

</programlisting>

</para>

<para>

The members of this structure are:

<variablelist>

<varlistentry><term><constant>h_name</constant></term>

<listitem>

<para>

The official (canonical) name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h_addrtype</constant></term>

<listitem>

<para>

The type of address being returned —

<type>PF_INET</type>

or

<type>PF_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h_addr_list</constant></term>

<listitem>

<para>

A <type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

For backward compatibility with very old software,

<constant>h_addr</constant>

is the first address in

<constant>h_addr_list.</constant>

</para>

<para>

<function>lwres_gethostent(</function>

<function>lwres_sethostent(</function>

<function>lwres_endhostent(</function>

<function>lwres_gethostent_r(</function>

<function>lwres_sethostent_r(</function>

and

<function>lwres_endhostent_r(</function>

provide iteration over the known host entries on systems that

provide such functionality through facilities like

<filename>/etc/hosts</filename>

or NIS. The lightweight resolver does not currently implement

these functions; it only provides them as stub functions that always

return failure.

</para>

<para>

<function>lwres_gethostbyname(</function> and

<function>lwres_gethostbyname2(</function> look up the hostname

<parameter>name</parameter>.

<function>lwres_gethostbyname(</function> always looks for an IPv4

address while <function>lwres_gethostbyname2(</function> looks for an

address of protocol family <parameter>af</parameter>: either

<type>PF_INET</type> or <type>PF_INET6</type> — IPv4 or IPV6

addresses respectively. Successful calls of the functions return a

<type>struct hostent</type> for the name that was looked up.

<type>NULL</type> is returned if the lookups by

<function>lwres_gethostbyname(</function> or

<function>lwres_gethostbyname2(</function> fail.

</para>

<para>

Reverse lookups of addresses are performed by

<function>lwres_gethostbyaddr(</function>.

<parameter>addr</parameter> is an address of length

<parameter>len</parameter> bytes and protocol family

<parameter>type</parameter> — <type>PF_INET</type> or

<type>PF_INET6</type>.

<function>lwres_gethostbyname_r(</function> is a thread-safe function

for forward lookups. If an error occurs, an error code is returned in

<parameter>*error</parameter>.

<parameter>resbuf</parameter> is a pointer to a <type>struct

hostent</type> which is initialised by a successful call to

`lwres_gethostbyname_r()` .
`buf` is a buffer of length
`len` bytes which is used to store the
`h_name`, `h_aliases`, and
`h_addr_list` elements of the `struct`
`hostent` returned in `resbuf`.
Successful calls to `lwres_gethostbyname_r()`
return `resbuf`,
which is a pointer to the `struct hostent` it created.

`lwres_gethostbyaddr_r()` is a thread-safe function
that performs a reverse lookup of address `addr`
which is `len` bytes long and is of protocol
family `type` — `PF_INET` or
`PF_INET6`. If an error occurs, the error code is returned
in `*error`. The other function parameters are
identical to those in `lwres_gethostbyname_r()`.
`resbuf` is a pointer to a `struct`
`hostent` which is initialised by a successful call to
`lwres_gethostbyaddr_r()`.
`buf` is a buffer of length
`len` bytes which is used to store the
`h_name`, `h_aliases`, and
`h_addr_list` elements of the `struct`
`hostent` returned in `resbuf`. Successful
calls to `lwres_gethostbyaddr_r()` return
`resbuf`, which is a pointer to the
`struct hostent` it created.

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The functions

`lwres_gethostbyname()`,
`lwres_gethostbyname2()`,
`lwres_gethostbyaddr()`,
and

`lwres_gethostent()`

return NULL to indicate an error. In this case the global variable

`lwres_h_errno`

will contain one of the following error codes defined in

<lwres/netdb.h>:

```

<variablelist>
<varlistentry><term><constant>HOST_NOT_FOUND</constant></term>
<listitem>
<para>
The host or address was not found.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>TRY_AGAIN</constant></term>
<listitem>
<para>
A recoverable error occurred, e.g., a timeout.
Retrying the lookup may succeed.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>NO_RECOVERY</constant></term>
<listitem>
<para>
A non-recoverable error occurred.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>NO_DATA</constant></term>
<listitem>
<para>
The name exists, but has no address information
associated with it (or vice versa in the case
of a reverse lookup). The code NO_ADDRESS
is accepted as a synonym for NO_DATA for backwards
compatibility.
</para>
</listitem></varlistentry>
</variablelist>
</para>

<para>
<citerefentry>
<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
translates these error codes to suitable error messages.
</para>

<para>
<function>lwres_ghostent</function>
and
<function>lwres_ghostent_r</function>
always return
<type>NULL</type>.
</para>

```

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

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>gethostent</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/>

<citerefentry>

<refentrytitle>lwres_getipnode</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/>

<citerefentry>

<refentrytitle>lwres_hstrerror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

</para>

</refsect1>

<refsect1>

<title>BUGS</title>

<para>

<function>lwres_gethostbyname()</function>,&br/>

<function>lwres_gethostbyname2()</function>,&br/>

<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>,&br/>

and

<function>lwres_gethostbyaddr_r()</function>

respectively.

</para>

<para>

The resolver daemon does not currently support any non-DNS
name services such as

<filename>/etc/hosts</filename>

or

<type>NIS</type>,

consequently the above functions don't, either.

</para>

</refsect1>

</refentry>

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_gethostent.docbook

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/res_update.h

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 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/master.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rdataset.h
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 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/adb.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/cache.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/masterdump.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/view.h
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/sockaddr.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/ncache.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/loc_29.c
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Found in path(s):

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/bsd/sterror.c

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```
.\" $Id: tree.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
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```

Found in path(s):

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/tree.mdoc

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```
.\" $Id: heap.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
```

```

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.\"
.\"Os OPERATING_SYSTEM [version/release]
.\" The following requests should be uncommented and
.\" used where appropriate. This next request is
.\" for sections 2 and 3 function return values only.
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS

```

Found in path(s):

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/heap.mdoc
```

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

Found in path(s):

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres.3

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/make/rules.in

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Found in path(s):

* /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/iscconf/parser.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/lwconfig.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/entropy.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/hex.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/byaddr.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/msgs.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/validator.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/entropy.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/socket.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/opensslrsa_link.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/byaddr.h

* /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/parseint.c

* /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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* SHA-1 in C

* By Steve Reid <steve@edmweb.com>

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/buffer.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/a_1.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/null_10.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/netaddr.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/timer.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/region.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/txt_16.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/buffer.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/soa_6.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/proforma.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/hinfo_13.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/pthreads/include/isc/mutex.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/opt_41.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/socket.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/event.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/lex.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/timer.c

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 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/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/isccc/win32/DLLMain.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/zonekey.h

- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/bindevt.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/key.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/version.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind9/include/bind9/getaddresses.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/sterror.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/sterror.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/DLLMain.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/solaris/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/iscconf/include/iscconf/version.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/syslog.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind9/include/bind9/version.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/ntgroups.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/version.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/ntpaths.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/sterror.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/ntgroups.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/platform.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/win32/DLLMain.c

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* SHA-1 in C

* By Steve Reid <steve@edmweb.com>

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*

* Test Vectors (from FIPS PUB 180-1)

* "abc"

* A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D

* "abcdbcdecdefdefgefghfghighijhijkijklmklmnlmnomnopnopq"

* 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1

* A million repetitions of "a"

* 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F

*/

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Found in path(s):

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/lcl_ho.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/dns_ho.c

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-->

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

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_getaddrinfo</refentrytitle>

```

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

<refnamediv>
<refname>lwres_getaddrinfo</refname>
<refname>lwres_freeaddrinfo</refname>
<refpurpose>socket address structure to host and service name</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
int
<function>lwres_getaddrinfo</function></funcdef>
<paramdef>const char *hostname</paramdef>
<paramdef>const char *servname</paramdef>
<paramdef>const struct addrinfo *hints</paramdef>
<paramdef>struct addrinfo **res</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freeaddrinfo</function></funcdef>
<paramdef>struct addrinfo *ai</paramdef>
</funcprototype>
</funcsynopsis>

```

<para>

If the operating system does not provide a

<type>struct addrinfo</type>,
the following structure is used:

```

<programlisting>
struct addrinfo {
    int      ai_flags;    /* AI_PASSIVE, AI_CANONNAME */
    int      ai_family;   /* PF_xxx */
    int      ai_socktype; /* SOCK_xxx */
    int      ai_protocol; /* 0 or IPPROTO_xxx for IPv4 and IPv6 */
    size_t   ai_addrlen;  /* length of ai_addr */
    char     *ai_canonname; /* canonical name for hostname */
    struct sockaddr *ai_addr; /* binary address */
    struct addrinfo *ai_next; /* next structure in linked list */
};
</programlisting>
</para>

```


</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres_getaddrinfo()</function>

is used to get a list of IP addresses and port numbers for host

<parameter>hostname</parameter>

and service

<parameter>servname</parameter>.

The function is the lightweight resolver's implementation of

<function>getaddrinfo()</function>

as defined in RFC2133.

<parameter>hostname</parameter>

and

<parameter>servname</parameter>

are pointers to null-terminated

strings or

<type>NULL</type>.

<parameter>hostname</parameter>

is either a host name or a numeric host address string: a dotted decimal IPv4 address or an IPv6 address.

<parameter>servname</parameter>

is either a decimal port number or a service name as listed in

<filename>/etc/services</filename>.

</para>

<para>

<parameter>hints</parameter>

is an optional pointer to a

<type>struct addrinfo</type>.

This structure can be used to provide hints concerning the type of socket that the caller supports or wishes to use.

The caller can supply the following structure elements in

<parameter>*hints</parameter>:

<variablelist>

<varlistentry><term><constant>ai_family</constant></term>

<listitem>

<para>The protocol family that should be used.

When

<constant>ai_family</constant>

is set to

<type>PF_UNSPEC</type>,

it means the caller will accept any protocol family supported by the operating system.

`</para></listitem></varlistentry>`
`<varlistentry><term><constant>ai_socktype</constant></term>`
`<listitem>`
`<para>`
denotes the type of socket —
`<type>SOCK_STREAM</type>`,
`<type>SOCK_DGRAM</type>`
or
`<type>SOCK_RAW</type>`
— that is wanted.
When
`<constant>ai_socktype</constant>`
is zero the caller will accept any socket type.
`</para>`
`</listitem>`
`</varlistentry>`
`<varlistentry><term><constant>ai_protocol</constant></term>`
`<listitem>`
`<para>`
indicates which transport protocol is wanted: IPPROTO_UDP or
IPPROTO_TCP.
If
`<constant>ai_protocol</constant>`
is zero the caller will accept any protocol.
`</para>`
`</listitem>`
`</varlistentry>`
`<varlistentry><term><constant>ai_flags</constant></term>`
`<listitem>`
`<para>`
Flag bits.
If the
`<type>AI_CANONNAME</type>`
bit is set, a successful call to
`<function>lwres_getaddrinfo()</function>`
will return a null-terminated string containing the canonical name
of the specified hostname in
`<constant>ai_canonname</constant>`
of the first
`<type>addrinfo</type>`
structure returned.
Setting the
`<type>AI_PASSIVE</type>`
bit indicates that the returned socket address structure is intended
for used in a call to
`<citrefentry>`
`<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>`
`</citrefentry>`.

In this case, if the hostname argument is a

<type>NULL</type>

pointer, then the IP address portion of the socket address structure will be set to

<type>INADDR_ANY</type>

for an IPv4 address or

<type>IN6ADDR_ANY_INIT</type>

for an IPv6 address.

</para>

<para>

When

<constant>ai_flags</constant>

does not set the

<type>AI_PASSIVE</type>

bit, the returned socket address structure will be ready

for use in a call to

<citrefentry>

<refentrytitle>connect</refentrytitle><manvolnum>2

</manvolnum>

</citrefentry>

for a connection-oriented protocol or

<citrefentry>

<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>

</citrefentry>,

<citrefentry>

<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>

</citrefentry>,

or

<citrefentry>

<refentrytitle>sendmsg</refentrytitle><manvolnum>2

</manvolnum>

</citrefentry>

if a connectionless protocol was chosen.

The IP address portion of the socket address structure will be

set to the loopback address if

<parameter>hostname</parameter>

is a

<type>NULL</type>

pointer and

<type>AI_PASSIVE</type>

is not set in

<constant>ai_flags</constant>.

</para>

<para>

If

<constant>ai_flags</constant>

is set to

<type>AI_NUMERICHOST</type>

it indicates that

<parameter>hostname</parameter>

should be treated as a numeric string defining an IPv4 or IPv6 address and no name resolution should be attempted.

</para>

</listitem>

</varlistentry>

</variablelist>

</para>

<para>

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

</para>

<para>

A <parameter>hints</parameter> of <type>NULL</type> is treated as if the caller provided a <type>struct addrinfo</type> initialized to zero with <constant>ai_family</constant> set to <constant>PF_UNSPEC</constant>.

</para>

<para>

After a successful call to

<function>lwres_getaddrinfo()</function>,

<parameter>*res</parameter>

is a pointer to a linked list of one or more

<type>addrinfo</type>

structures.

Each

<type>struct addrinfo</type>

in this list can be processed by following the

<constant>ai_next</constant>

pointer, until a

<type>NULL</type>

pointer is encountered.

The three members

<constant>ai_family</constant>,

<constant>ai_socktype</constant>,

and

<constant>ai_protocol</constant>

in each

returned

<type>addrinfo</type>

structure contain the corresponding arguments for a call to

<citerefentry>

<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>

</citerefentry>.

For each

<type>addrinfo</type>

structure in the list, the

<constant>ai_addr</constant>

member points to a filled-in socket address structure of length

<constant>ai_addrlen</constant>.

</para>

<para>

All of the information returned by

<function>lwres_getaddrinfo()</function>

is dynamically allocated: the addrinfo structures, and the socket

address structures and canonical host name strings pointed to by the

<constant>addrinfo</constant>structures.

Memory allocated for the dynamically allocated structures created by

a successful call to

<function>lwres_getaddrinfo()</function>

is released by

<function>lwres_freeaddrinfo()</function>.

<parameter>ai</parameter>

is a pointer to a

<type>struct addrinfo</type>

created by a call to

<function>lwres_getaddrinfo()</function>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres_getaddrinfo()</function>

returns zero on success or one of the error codes listed in

<citerefentry>

<refentrytitle>gai_strerror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

if an error occurs.

If both

<parameter>hostname</parameter>

and

<parameter>servname</parameter>

are

<type>NULL</type>

<function>lwres_getaddrinfo()</function>

returns

<errorcode>EAI_NONAME</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_gai_strerror</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>RFC2133</refentrytitle>

</citerefentry>,

<citerefentry>

<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<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

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```
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.\"
.\" The following six UNCOMMENTED lines are required.
.\"Os OPERATING_SYSTEM [version/release]
.\"Dt DOCUMENT_TITLE [section number] [volume]
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh FILES
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" .Sh DIAGNOSTICS
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS
```

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

.\"

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 *
 * @(#)cdefs.h 8.7 (Berkeley) 1/21/94
 */

Found in path(s):

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/aux3/include/sys/cdefs.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/qnx/include/sys/cdefs.h
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 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/dns_sv.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/mpe/include/sys/bitypes.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/hesiod_p.h
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/getpwent.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/dns_pw.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/nameser/ns_parse.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_ng.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/getnetgrent.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/aix4/include/sys/bitypes.h

- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/sco42/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/hesiod.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/util.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/hesiod.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/hpux/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen_sv.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/dns_pr.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_pton.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/bsdos/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/hpux9/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/lynxos/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/nameser/ns_ttl.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/irs.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/getprotoent.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_sv.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/qnx/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/netbsd/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/lcl_p.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/bsdos2/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/irs_data.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_net_pton.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/hpux10/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_net_ntop.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/irs_p.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/nameser/ns_netint.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/irs_data.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen_pw.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/getserver.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/decunix/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_ho.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/freebsd/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen_ho.c
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- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_pr.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/aix32/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/cygwin/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/unixware20/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/sunos/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen_p.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen_nw.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/openbsd/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen_pr.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/nameser/ns_name.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_nw.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/ultrix/include/sys/bitypes.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gen_ng.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_pw.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/bitncmp.c

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/pathnames.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/unixware212/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/next/include/sys/bitypes.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nul_ng.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_neta.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/irix/include/sys/bitypes.h
```

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```

```
# $Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp $
```

```
# Search for machine-generated header files in the build tree,
# and for normal headers in the source tree (${top_srcdir}).
# We only need to look in OS-specific subdirectories for the
# latter case, because there are no machine-generated OS-specific
# headers.
```

```
ISC_INCLUDES = @BIND9_ISC_BUILDINCLUDE@ \
-I${top_srcdir}/lib/isc \
-I${top_srcdir}/lib/isc/include \
-I${top_srcdir}/lib/isc/unix/include \
-I${top_srcdir}/lib/isc/@ISC_THREAD_DIR@/include
```

```
ISCCFG_INCLUDES = @BIND9_ISCCFG_BUILDINCLUDE@ \
-I${top_srcdir}/lib/isccfg/include
```

```
DNS_INCLUDES = @BIND9_DNS_BUILDINCLUDE@ \
-I${top_srcdir}/lib/dns/include \
-I${top_srcdir}/lib/dns/sec/dst/include
```

```
OMAPI_INCLUDES = @BIND9_OMAPI_BUILDINCLUDE@ \
-I${top_srcdir}/lib/omapi/include
```

```
LWRES_INCLUDES = @BIND9_LWRES_BUILDINCLUDE@ \
```

-I\${top_srcdir}/lib/lwres/include

TEST_INCLUDES = \

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

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/make/includes.in

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/lcl_gr.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/lcl_nw.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/nis_gr.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/lcl_sv.c

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres.html

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_getnameinfo.html

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_buffer.docbook

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_getaddrinfo.html

- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_hstrerror.docbook
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_config.html
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_getnameinfo.docbook
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_gai_strerror.html
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_gai_strerror.docbook
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_gnba.docbook
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_context.html
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_packet.docbook
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_gabn.html
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_buffer.html
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_noop.html
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_gethostent.html
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_packet.html
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_getrrsetbyname.html
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_inetntop.docbook
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_gnba.html
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_noop.docbook
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_getipnode.html
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_resutil.html
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres.docbook
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_inetntop.html

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.\"

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

.\"

Found in path(s):

- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_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_NEEDNETINETIN6H@

```

```

/*
* Define if this system needs the <netinet6/in6.h> header file included
* to support in6_pkinf (pretty much only BSD/OS).
*/

```

```

@ISC_PLATFORM_NEEDNETINET6IN6H@

```

```

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

```

```

@ISC_PLATFORM_HAVESALEN@

```

```

/*
* If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6
* will be defined.

```

```

*/
@ISC_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, ISC_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDIN6ADDRLOOPBACK
* will be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
* If this system has in6_pktinfo, ISC_PLATFORM_HAVEIN6PKTINFO will be
* defined.
*/
@ISC_PLATFORM_HAVEIN6PKTINFO@

/*
* If this system has in_addr6, rather than in6_addr, ISC_PLATFORM_HAVEINADDR6
* will be defined.
*/
@ISC_PLATFORM_HAVEINADDR6@

/*
* If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.
*/
@ISC_PLATFORM_HAVESCOPEID@

/*
* If this system needs inet_ntop(), ISC_PLATFORM_NEEDNTOP will be defined.
*/
@ISC_PLATFORM_NEEDNTOP@

/*
* If this system needs inet_pton(), ISC_PLATFORM_NEEDPTON will be defined.
*/
@ISC_PLATFORM_NEEDPTON@

/*
* If this system needs inet_aton(), ISC_PLATFORM_NEEDATON will be defined.
*/
@ISC_PLATFORM_NEEDATON@

/*

```



```

* If this system needs in_port_t, ISC_PLATFORM_NEEDPORTT will be defined.
*/
@ISC_PLATFORM_NEEDPORTT@

/*
* If the system needs strsep(), ISC_PLATFORM_NEEDSTRSEP will be defined.
*/
@ISC_PLATFORM_NEEDSTRSEP@

/*
* If the system needs strcpy(), 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 ifunistd.h does not cause fd_set to be declared.
*/
@ISC_PLATFORM_NEEDSYSELECTH@

/*
* 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 an extended struct ifconf
* for IPv6.
*/
@ISC_PLATFORM_HAVELIFCONF@

/*
* Define if the system has struct if_laddrconf which is an extended struct
* ifconf for IPv6.
*/
@ISC_PLATFORM_HAVEIF_LADDRCONF@

/*
* Define if the system has struct if_laddrreq.
*/
@ISC_PLATFORM_HAVEIF_LADDRREQ@

/*
* Used to control how extern data is linked; needed for Win32 platforms.
*/

```

```

@ISC_PLATFORM_USEDECLSPEC@

/*
 * Define if the system supports if_nametoindex.
 */
@ISC_PLATFORM_HAVEIFNAMETOINDEX@

/*
 * Define if this system needs strtoul.
 */
@ISC_PLATFORM_NEEDSTRTOUL@

/*
 * Define if this system needs memmove.
 */
@ISC_PLATFORM_NEEDMEMMOVE@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#define LIBBIND9_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#ifdef LIBISC_EXPORTS
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCC_EXPORTS
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)

```

```
#endif
#endif /* ISC_PLATFORM_USEDECLSPEC */
```

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

```
#endif /* ISC_PLATFORM_H */
```

Found in path(s):

`/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/platform.h.in`

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`/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/result.h`
`/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/time.c`
`/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/rwlock.c`
`/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/base64.c`
`/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/rwlock.h`
`/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/time.c`
`/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/task.h`
`/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mx_15.c`
`/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/result.c`

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/gai_strerror.c
 * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/hex.c

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-->

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

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_resutil</refentrytitle>

```

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

<refnamediv>
<refname>lwres_string_parse</refname>
<refname>lwres_addr_parse</refname>
<refname>lwres_getaddrsbyname</refname>
<refname>lwres_getnamebyaddr</refname>
<refpurpose>lightweight resolver utility functions</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_string_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>char **c</paramdef>
<paramdef>lwres_uint16_t *len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_addr_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_addr_t *addr</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getaddrsbyname</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *name</paramdef>
<paramdef>lwres_uint32_t addrtypes</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getnamebyaddr</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t addrtype</paramdef>
<paramdef>lwres_uint16_t addrlen</paramdef>
<paramdef>const unsigned char *addr</paramdef>
<paramdef>lwres_gnbaresponse_t **structp</paramdef>
</funcprototype>

```

</functsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>

<para>
<function>lwres_string_parse()</function> retrieves a DNS-encoded string starting the current pointer of lightweight resolver buffer <parameter>b</parameter>: i.e. <constant>b->current</constant>. When the function returns, the address of the first byte of the encoded string is returned via <parameter>*c</parameter> and the length of that string is given by <parameter>*len</parameter>. The buffer's current pointer is advanced to point at the character following the string length, the encoded string, and the trailing <type>NULL</type> character.
</para>

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

<para>
<function>lwres_getaddrsbyname()</function>
and
<function>lwres_getnamebyaddr()</function>
use the
<type>lwres_gnbaresponse_t</type>
structure defined below:

<programlisting>
typedef struct {
 lwres_uint32_t flags;
 lwres_uint16_t naliases;
 lwres_uint16_t naddrs;
 char *realname;
 char **aliases;
 lwres_uint16_t realnamelen;
 lwres_uint16_t *aliaslen;
 lwres_addrlist_t addrs;

```

        void          *base;
        size_t        baselen;
    } lwres_gabnresponse_t;

```

</programlisting>

The contents of this structure are not manipulated directly but they are controlled through the

<citerefentry>

<refentrytitle>lwres_gabn</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

functions.

</para>

<para>

The lightweight resolver uses

<function>lwres_getaddrbyname()</function> to perform forward lookups.

Hostname <parameter>name</parameter> is looked up using the resolver context <parameter>ctx</parameter> for memory allocation.

<parameter>addrtypes</parameter> is a bitmask indicating which type of addresses are to be looked up. Current values for this bitmask are

<type>LWRES_ADDRTYPE_V4</type> for IPv4 addresses and

<type>LWRES_ADDRTYPE_V6</type> for IPv6 addresses. Results of the lookup are returned in <parameter>*structp</parameter>.

</para>

<para>

<function>lwres_getnamebyaddr()</function> performs reverse lookups.

Resolver context <parameter>ctx</parameter> is used for memory allocation. The address type is indicated by

<parameter>addrtype</parameter>: <type>LWRES_ADDRTYPE_V4</type> or

<type>LWRES_ADDRTYPE_V6</type>. The address to be looked up is given

by <parameter>addr</parameter> and its length is

<parameter>addrlen</parameter> bytes. The result of the function call

is made available through <parameter>*structp</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

Successful calls to

<function>lwres_string_parse()</function>

and

<function>lwres_addr_parse()</function>

return

<errorcode>LWRES_R_SUCCESS.</errorcode>

Both functions return

<errorcode>LWRES_R_FAILURE</errorcode>

if the buffer is corrupt or

<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>

if the buffer has less space than expected for the components of the encoded string or address.

</para>

<para>

<function>lwres_getaddrbyname()</function>

returns

<errorcode>LWRES_R_SUCCESS</errorcode>

on success and it returns

<errorcode>LWRES_R_NOTFOUND</errorcode>

if the hostname

<parameter>name</parameter>

could not be found.

</para>

<para>

<errorcode>LWRES_R_SUCCESS</errorcode>

is returned by a successful call to

<function>lwres_getnamebyaddr()</function>.

</para>

<para>

Both

<function>lwres_getaddrbyname()</function>

and

<function>lwres_getnamebyaddr()</function>

return

<errorcode>LWRES_R_NOMEMORY</errorcode>

when memory allocation requests fail and

<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>

if the buffers used for sending queries and receiving replies are too small.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres_buffer</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<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

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

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AC_REVISION(\$Revision: 1.1 \$)

AC_INIT(resolv/herror.c)

AC_PREREQ(2.13)

AC_CONFIG_HEADER(config.h)

AC_CANONICAL_HOST

AC_PROG_MAKE_SET

AC_PROG_RANLIB

AC_PROG_INSTALL

AC_SUBST(STD_CINCLUDES)

AC_SUBST(STD_CDEFINES)

AC_SUBST(STD_CWARNINGS)

AC_SUBST(CCOPT)

AC_PATH_PROG(AR, ar)

ARFLAGS="cruv"

AC_SUBST(AR)

AC_SUBST(ARFLAGS)

The POSIX ln(1) program. Non-POSIX systems may substitute

"copy" or something.

LN=ln

AC_SUBST(LN)

```

case "$AR" in
  "")
    AC_MSG_ERROR([
ar program not found. Please fix your PATH to include the directory in
which ar resides, or set AR in the environment with the full path to ar.
])

  ;;
esac

#
# Etags.
#
AC_PATH_PROGS(ETAGS, etags emacs-etags)

#
# Some systems, e.g. RH7, have the Exuberant Ctags etags instead of
# GNU emacs etags, and it requires the -L flag.
#
if test "X$ETAGS" != "X"; then
  AC_MSG_CHECKING(for Exuberant Ctags etags)
  if $ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then
    AC_MSG_RESULT(yes)
    ETAGS="$ETAGS -L"
  else
    AC_MSG_RESULT(no)
  fi
fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL, perl5 perl)
AC_SUBST(PERL)

#
# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
  '${prefix}/include')
    includedir='${prefix}/bind/include'
  ;;
esac
case "$libdir" in
  '${prefix}/lib')
    libdir='${prefix}/bind/lib'
  ;;

```

```

;;
esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
case "$INSTALL" in
/*)
    ;;
*)
    #
    # Not all systems have dirname.
    #
    changequote({, })
    ac_dir="`echo $INSTALL | sed 's%/[^\/*]%%'`"
    changequote([, ])

    ac_prog="`echo $INSTALL | sed 's%.*%%'`"
    test "$ac_dir" = "$ac_prog" && ac_dir=.
    test -d "$ac_dir" && ac_dir="`cd \"$ac_dir\" && pwd`"
    INSTALL="$ac_dir/$ac_prog"
    ;;
esac

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found. The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets $CC to be something, let that override
# our change.
#
if test "X$CC" = "X" ; then
case "$host" in
*-dec-osf*)
    CC="cc"
    ;;
*-solaris*)
    # Use Sun's cc if it is available, but watch
    # out for /usr/ucb/cc; it will never be the right
    # compiler to use.
    #
    # If setting CC here fails, the AC_PROG_CC done

```

```

        # below might still find gcc.
IFS="{IFS= }"; ac_save_ifs="$IFS"; IFS=":"
for ac_dir in $PATH; do
  test -z "$ac_dir" && ac_dir=.
  case "$ac_dir" in
    /usr/ucb)
      # exclude
      ;;
    *)
      if test -f "$ac_dir/cc"; then
        CC="$ac_dir/cc"
        break
      fi
      ;;
    esac
  done
  IFS="$ac_save_ifs"
  ;;
*-hp-hpux*)
  CC="cc"
  ;;
mips-sgi-irix*)
  CC="cc"
  ;;
esac
fi

AC_PROG_CC

AC_HEADER_STDC

AC_CHECK_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/sockio.h sys/select.h sys/timers.h)

AC_C_CONST
AC_C_INLINE
AC_TYPE_SIZE_T
AC_HEADER_TIME
#
# check if we need to #include sys/select.h explicitly
#
case $ac_cv_header_unistd_h in
yes)
  AC_MSG_CHECKING(if unistd.h defines fd_set)
  AC_TRY_COMPILE([
#include <unistd.h>],

```

```

[fd_set read_set; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDSYSSELECTH="#undef ISC_PLATFORM_NEEDSYSSELECTH"
],
[AC_MSG_RESULT(no)
case ac_cv_header_sys_select_h in
yes)
    ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
    ;;
no)
    AC_MSG_ERROR([need either working unistd.h or sys/select.h])
    ;;
esac
])
;;
no)
case ac_cv_header_sys_select_h in
yes)
    ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
    ;;
no)
    AC_MSG_ERROR([need either unistd.h or sys/select.h])
    ;;
esac
;;
esac
AC_SUBST(ISC_PLATFORM_NEEDSYSSELECTH)

#
# Find the machine's endian flavor.
#
AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,[ --with-irs-gr Build ....],
want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
    WANT_IRS_GR_OBJS="\${WANT_IRS_GR_OBJS}"
    ;;
*) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";;
esac
AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,[ --with-irs-pw Build ....],
want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
yes) WANT_IRS_PW="#define WANT_IRS_PW 1"

```

```

WANT_IRS_PW_OBJS="\${WANT_IRS_PW_OBJS}";;
*) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;
esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,[ --with-irs-nis Build ....],
want_irs_nis="$withval", want_irs_nis="no")
case "$want_irs_nis" in
yes)
WANT_IRS_NIS="#define WANT_IRS_NIS 1"
WANT_IRS_NIS_OBJS="\${WANT_IRS_NIS_OBJS}"
case "$want_irs_gr" in
yes)
WANT_IRS_NISGR_OBJS="\${WANT_IRS_NISGR_OBJS}";;
*)
WANT_IRS_NISGR_OBJS="";;
esac
case "$want_irs_pw" in
yes)
WANT_IRS_NISPW_OBJS="\${WANT_IRS_NISPW_OBJS}";;
*)
WANT_IRS_NISPW_OBJS="";;
esac
;;
*)
WANT_IRS_NIS="#undef WANT_IRS_NIS"
WANT_IRS_NIS_OBJS=""
WANT_IRS_NISGR_OBJS=""
WANT_IRS_NISPW_OBJS="";;
esac
AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR_OBJS)
AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
#ifdef HAVE_DB_H
int have_db_h = 1;
#else
int have_db_h = 0;
#endif
main() { return(!have_db_h); }
],
WANT_IRS_DBPW_OBJS="\${WANT_IRS_DBPW_OBJS}"
,
WANT_IRS_DBPW_OBJS=""
,
WANT_IRS_DBPW_OBJS=""

```

```

)
AC_SUBST(WANT_IRS_DBPW_OBJS)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
[ --with-randomdev=PATH Specify path for random device],
use_randomdev="$withval", use_randomdev="unspec")

case "$use_randomdev" in
unspec)
case "$host" in
*-openbsd*)
devrandom=/dev/srandom
;;
*)
devrandom=/dev/random
;;
esac
AC_MSG_RESULT($devrandom)
AC_CHECK_FILE($devrandom,
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV,
"$devrandom"),)
;;
yes)
AC_MSG_ERROR([--with-randomdev must specify a path])
;;
*)
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
AC_MSG_RESULT(using "$use_randomdev")
;;
esac

#
# Begin pthreads checking.
#
# First, decide whether to use multithreading or not.
#
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
[ --disable-threads disable multithreading])
case "$enable_threads" in
yes|")
AC_MSG_RESULT(yes)
use_threads=true
;;

```



```

no)
AC_MSG_RESULT(no)
use_threads=false
;;
*)
    AC_MSG_ERROR([--enable-threads takes yes or no])
;;
esac

if $use_threads
then
#
# Search for / configure pthreads in a system-dependent fashion.
#
case "$host" in
*-netbsd*)
# NetBSD has multiple pthreads implementations. The
# recommended one to use is "unproven-pthreads". The
# older "mit-pthreads" may also work on some NetBSD
# versions. The PTL2 thread library does not
# currently work with bind9, but can be chosen with
# the --with-ptl2 option for those who wish to
# experiment with it.
CC="gcc"
AC_MSG_CHECKING(which NetBSD thread library to use)

AC_ARG_WITH(ptl2,
[ --with-ptl2 on NetBSD, use the ptl2 thread library (experimental)],
    use_ptl2="$withval", use_ptl2="no")

: ${LOCALBASE:=/usr/pkg}

if test "X$use_ptl2" = "Xyes"
then
    AC_MSG_RESULT(PTL2)
    AC_MSG_WARN(
[linking with PTL2 is highly experimental and not expected to work])
    CC=ptlgcc
else
    if test ! -d $LOCALBASE/pthreads
    then
        AC_MSG_RESULT(none)
        use_threads=false
    fi

    if $use_threads
    then
        AC_MSG_RESULT(mit-pthreads/unproven-pthreads)
    fi
fi

```

```

pkg="$LOCALBASE/threads"
lib1="-L$pkg/lib -Wl,-R$pkg/lib"
lib2="-lthread -lm -lgcc -lthread"
LIBS="$lib1 $lib2 $LIBS"
CPPFLAGS="$CPPFLAGS -I$pkg/include"
STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
fi
fi
;;
*)
AC_CHECK_LIB(pthread, pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create_system,,
AC_CHECK_LIB(c_r, pthread_create,,
AC_CHECK_LIB(c, pthread_create,,
use_threads=false))))
;;
esac
fi

if $use_threads
then
#
# We'd like to use sigwait() too
#
AC_CHECK_LIB(c, sigwait,
AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, sigwait,
AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, _Psigwait,
AC_DEFINE(HAVE_SIGWAIT),))
)

AC_CHECK_FUNC(pthread_attr_getstacksize,
AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)

#
# Additional OS-specific issues related to pthreads and sigwait.
#
case "$host" in
#
# One more place to look for sigwait.
#
*-freebsd*)
AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
;;
#
# BSDI 3.0 through 4.0.1 needs pthread_init() to be

```

```

# called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
*-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_GETGRNAM_R)
;;
*hpux11*)
AC_DEFINE(_PTHREADS_DRAFT4)
;;
#
# UnixWare does things its own way.
#
*-UnixWare*)
AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)
;;
esac

#
# Look for sysconf to allow detection of the number of processors.
#
AC_CHECK_FUNC(sysconf, AC_DEFINE(HAVE_SYSCONF),)

if test "X$GCC" = "Xyes"; then
case "$host" in
*-freebsd*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"

```

```

;;
*-openbsd*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
;;
*-solaris*)
LIBS="$LIBS -lthread"
;;
*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
esac
else
case $host in
*-dec-osf*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
;;
*-solaris*)
CC="$CC -mt"
CCOPT="$CCOPT -mt"
;;
*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
*-UnixWare*)
CC="$CC -Kthread"
CCOPT="$CCOPT -Kthread"
;;
esac
fi
ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT_IRS_THREADSGR_OBJS="\${WANT_IRS_THREADSGR_OBJS}"
WANT_IRS_THREADSPW_OBJS="\${WANT_IRS_THREADSPW_OBJS}"
WANT_IRS_THREADS_OBJS="\${WANT_IRS_THREADS_OBJS}"
thread_dir=pthreads
else
ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT_IRS_THREADSGR_OBJS=""
WANT_IRS_THREADSPW_OBJS=""
WANT_IRS_THREADS_OBJS=""
thread_dir=nothreads
fi

AC_CHECK_FUNC(strlcat, AC_DEFINE(HAVE_STRLCAT))

```

```

AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(DO_PTHREADS)
AC_SUBST(WANT_IRS_THREADSGR_OBJS)
AC_SUBST(WANT_IRS_THREADSPW_OBJS)
AC_SUBST(WANT_IRS_THREADS_OBJS)

AC_CHECK_FUNC(if_nametoindex,
[USE_IFNAMELINKID="#define USE_IFNAMELINKID 1"],
[USE_IFNAMELINKID="#undef USE_IFNAMELINKID"])
AC_SUBST(USE_IFNAMELINKID)

ISC_THREAD_DIR=$thread_dir
AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon,
[DAEMON_OBJS="" NEED_DAEMON="#undef NEED_DAEMON"]
,
[DAEMON_OBJS="\${DAEMON_OBJS}" NEED_DAEMON="#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJS)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep,
[STRSEP_OBJS="" NEED_STRSEP="#undef NEED_STRSEP"]
,
[STRSEP_OBJS="\${STRSEP_OBJS}" NEED_STRSEP="#define NEED_STRSEP 1"]
)
AC_SUBST(STRSEP_OBJS)
AC_SUBST(NEED_STRSEP)

AC_CHECK_FUNC(strerror, [NEED_STRERROR="#undef NEED_STRERROR"],
[NEED_STRERROR="#define NEED_STRERROR 1"])
AC_SUBST(NEED_STRERROR)

#
# flockfile is usually provided by pthreads, but we may want to use it
# even if compiled with --disable-threads.
#
AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)

#
# Indicate what the final decision was regarding threads.
#
AC_MSG_CHECKING(whether to build with threads)
if $use_threads; then
  AC_MSG_RESULT(yes)
else
  AC_MSG_RESULT(no)

```

fi

#

End of pthreads stuff.

#

#

Additional compiler settings.

#

MKDEPCC="\$CC"

MKDEPCFLAGS="-M"

IRIX_DNSSEC_WARNINGS_HACK=""

if test "X\$GCC" = "Xyes"; then

STD_CWARNINGS="\$STD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"

else

case \$host in

-dec-osf)

CC="\$CC -std"

CCOPT="\$CCOPT -std"

MKDEPCC="\$CC"

::

-hp-hpux)

CC="\$CC -Ae -z"

The version of the C compiler that constantly warns about

'const' as well as alignment issues is unfortunately not

able to be discerned via the version of the operating

system, nor does cc have a version flag.

case "\$CC +W 123 2>&1`" in

Unknown?option)

STD_CWARNINGS="+w1"

::

*)

Turn off the pointlessly noisy warnings.

STD_CWARNINGS="+w1 +W 474,530"

::

esac

CCOPT="\$CCOPT -Ae -z"

LIBS="-Wl,+vnocompatwarnings \$LIBS"

MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>&1 | awk "BEGIN {colon=0; rec="";} { for (i = 0 ; i < NF; i++)
{ if (colon && a[\$i]) continue; if (\$i == "\\") continue; if (!colon) { rec = \$i continue; } if (\$i == ":") { rec = rec " :"
colon = 1 continue; } if (length(rec \$i) > 76) { print rec " \\"; rec = "\t" \$i; a[\$i] = 1; } else { rec = rec " " \$i a[\$i] = 1;
} } } END {print rec}""' >>\$TMP'

MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>>\$TMP'

::

-sgi-irix)

STD_CWARNINGS="-fullwarn -woff 1209"

#

```

# Silence more than 250 instances of
# "prototyped function redeclared without prototype"
# and 11 instances of
# "variable ... was set but never used"
# from lib/dns/sec/openssl.
#
IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"
;;
*-solaris*)
MKDEPCFLAGS="-xM"
;;
*-UnixWare*)
CC="$CC -w"
;;
esac
fi

#
# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
#
case $host in
*linux*)
STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"
;;
esac

AC_SUBST(MKDEPCC)
AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

#
# NLS
#
AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS),)

#
# -lxnet buys us one big porting headache... standards, gotta love 'em.
#
# AC_CHECK_LIB(xnet, socket, ,
# AC_CHECK_LIB(socket, socket)
# AC_CHECK_LIB(nsl, inet_ntoa)
# )
#
# Use this for now, instead:
#
case "$host" in

```

```

mips-sgi-irix*)
;;
*)
AC_CHECK_LIB(d4r, gethostbyname_r)
AC_CHECK_LIB(socket, socket)
AC_CHECK_LIB(nsl, inet_ntoa)
;;
esac

#
# Purify support
#
AC_MSG_CHECKING(whether to use purify)
AC_ARG_WITH(purify,
[ --with-purify[=PATH] use Rational purify],
use_purify="$withval", use_purify="no")

case "$use_purify" in
no)
;;
yes)
AC_PATH_PROG(purify_path, purify, purify)
;;
*)
purify_path="$use_purify"
;;
esac

case "$use_purify" in
no)
AC_MSG_RESULT(no)
PURIFY=""
;;
*)
if test -f $purify_path || test $purify_path = purify; then
AC_MSG_RESULT($purify_path)
PURIFYFLAGS=""echo $PURIFYOPTIONS`"
PURIFY="$purify_path $PURIFYFLAGS"
else
AC_MSG_ERROR([$purify_path not found.

```

Please choose the proper path with the following command:

```

configure --with-purify=PATH
])
fi
;;
esac

```



```

AC_SUBST(PURIFY)

#
# GNU libtool support
#
AC_ARG_WITH(libtool,
  [ --with-libtool use GNU libtool (following indented options supported)],
  use_libtool="$withval", use_libtool="no")

case $use_libtool in
yes)
  AM_PROG_LIBTOOL
  O=lo
  A=la
  LIBTOOL_MKDEP_SED='s;\.o;\.lo;'
  LIBTOOL_MODE_COMPILE='--mode=compile'
  LIBTOOL_MODE_INSTALL='--mode=install'
  LIBTOOL_MODE_LINK='--mode=link'
  ;;
*)
  O=o
  A=a
  LIBTOOL=
  AC_SUBST(LIBTOOL)
  LIBTOOL_MKDEP_SED=
  LIBTOOL_MODE_COMPILE=
  LIBTOOL_MODE_INSTALL=
  LIBTOOL_MODE_LINK=
  ;;
esac

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

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

#
# Here begins a very long section to determine the system's networking

```

```

# capabilities. The order of the tests is significant.
#

#
# IPv6
#
AC_ARG_ENABLE(ipv6,
[ --enable-ipv6 use IPv6 [default=autodetect]])

case "$enable_ipv6" in
yes|"autodetect")
    AC_DEFINE(WANT_IPV6)
    ;;
no)
    ;;
esac

#
# We do the IPv6 compilation checking after libtool so that we can put
# the right suffix on the files.
#
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>],
[struct sockaddr_in6 sin6; return (0);],
[AC_MSG_RESULT(yes)
 found_ipv6=yes],
[AC_MSG_RESULT(no)
 found_ipv6=no])

#
# See whether IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)
AC_ARG_WITH(kame,
[ --with-kame[=PATH] use Kame IPv6 [default path /usr/local/v6]],
use_kame="$withval", use_kame="no")

case "$use_kame" in
no)
    ;;
yes)
    kame_path=/usr/local/v6
    ;;
*)

```

```

kame_path="$use_kame"
;;
esac

case "$use_kame" in
no)
AC_MSG_RESULT(no)
;;
*)
if test -f $kame_path/lib/libinet6.a; then
AC_MSG_RESULT($kame_path/lib/libinet6.a)
LIBS="-L$kame_path/lib -linet6 $LIBS"
else
AC_MSG_ERROR([$kame_path/lib/libinet6.a not found.

```

Please choose the proper path with the following command:

```

configure --with-kame=PATH
])
fi
;;
esac

#
# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.
# Including it on Kame-using platforms is very bad, though, because
# Kame uses #error against direct inclusion. So include it on only
# the platform that is otherwise broken without it -- BSD/OS 4.0 through 4.1.
# This is done before the in6_pktinfo check because that's what
# netinet6/in6.h is needed for.
#
changequote(, )
case "$host" in
*-bsdi4.[01]*)
ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"
isc_netinet6in6_hack="#include <netinet6/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
isc_netinet6in6_hack=""
;;
esac
changequote([, ])

#
# This is similar to the netinet6/in6.h issue.
#
case "$host" in

```

```

*-UnixWare*)
ISC_PLATFORM_NEEDNETINETIN6H="#define ISC_PLATFORM_NEEDNETINETIN6H 1"
    ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
isc_netinetin6_hack="#include <netinet/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINETIN6H="#undef ISC_PLATFORM_NEEDNETINETIN6H"
    ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
isc_netinetin6_hack=""
;;
esac

#
# Now delve deeper into the suitability of the IPv6 support.
#
case "$found_ipv6" in
yes)
    HAS_INET6_STRUCTS="#define HAS_INET6_STRUCTS 1"

    AC_MSG_CHECKING(for in6_addr)
    AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_addr in6; return (0);],
[AC_MSG_RESULT(yes)
HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
isc_in_addr6_hack=""],
[AC_MSG_RESULT(no)
HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
isc_in_addr6_hack="#define in6_addr in_addr6"])

    AC_MSG_CHECKING(for in6addr_any)
    AC_TRY_LINK([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
$isc_in_addr6_hack
],
[struct in6_addr in6; in6 = in6addr_any; return (0);],
[AC_MSG_RESULT(yes)
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"],
[AC_MSG_RESULT(no)

```

```

NEED_INET6ADDR_ANY="#define NEED_INET6ADDR_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_INET6ADDR_ANY="#undef NEED_INET6ADDR_ANY"

```

```

ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"
;;
esac

```

```

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINETIN6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_IN_ADDR6)
AC_SUBST(NEED_IN6ADDR_ANY)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)
AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)

```

```

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs to come after checking for a Kame add-on,
# which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_ntop(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_ntop.c"
ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"])
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],

```

```

[inet_pton(0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON 1"])
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[struct in_addr in; inet_aton(0, &in); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1"])

AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)

#
# Look for a 4.4BSD-style sa_len member in struct sockaddr.
#
case "$host" in
*-dec-osf*)
# Turn on 4.4BSD style sa_len support.
AC_DEFINE(_SOCKADDR_LEN)
;;
esac

AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct sockaddr sa; sa.sa_len = 0; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)

# HAVE_MINIMUM_IFREQ

```

```

case "$host" in
*-bsdi[2345]*) have_minimum_ifreq=yes;;
*-darwin*) have_minimum_ifreq=yes;;
*-freebsd*) have_minimum_ifreq=yes;;
*-lynxos*) have_minimum_ifreq=yes;;
*-netbsd*) have_minimum_ifreq=yes;;
*-next*) have_minimum_ifreq=yes;;
*-openbsd*) have_minimum_ifreq=yes;;
*-rhapsody*) have_minimum_ifreq=yes;;
esac

case "$have_minimum_ifreq" in
yes)
HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;
no)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
*)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
esac
AC_SUBST(HAVE_MINIMUM_IFREQ)

# PORT_DIR
PORT_DIR=port/unknown
SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"
case "$host" in
*aix3.2*) PORT_DIR="port/aix32";;
*aix4*) PORT_DIR="port/aix4";;
*aux3*) PORT_DIR="port/aux3";;
*-bsdi2*) PORT_DIR="port/bsdos2";;
*-bsdi*) PORT_DIR="port/bsdos";;
*-cygwin*) PORT_DIR="port/cygwin";;
*-darwin*) PORT_DIR="port/darwin";;
*-osf*) PORT_DIR="port/decunix";;
*-freebsd*) PORT_DIR="port/freebsd";;
*-hpux9*) PORT_DIR="port/hpux9";;
*-hpux10*) PORT_DIR="port/hpux10";;
*-hpux11*) PORT_DIR="port/hpux";;
*-irix*) PORT_DIR="port/irix";;
*-linux*) PORT_DIR="port/linux";;
*-lynxos*) PORT_DIR="port/lynxos";;
*-mpe*) PORT_DIR="port/mpe";;
*-netbsd*) PORT_DIR="port/netbsd";;
*-next*) PORT_DIR="port/next";;
*-openbsd*) PORT_DIR="port/openbsd";;
*-qnx*) PORT_DIR="port/qnx";;

```



```

*-rhapsody*) PORT_DIR="port/rhapsody";;
*-solaris2.[[01234]]*)
    BSD_COMP="#define BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
    PORT_DIR="port/solaris";;
*-solaris2.5*)
    BSD_COMP="#define BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    PORT_DIR="port/solaris";;
*-solaris2*) BSD_COMP="#define BSD_COMP 1"
    PORT_DIR="port/solaris";;
*-ultrix*) PORT_DIR="port/ultrix";;
*-sco-sysv*uw2.0*) PORT_DIR="port/unixware20";;
*-sco-sysv*uw2.1.2*) PORT_DIR="port/unixware212";;
*-sco-sysv*uw7*) PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

#
# Look for a 4.4BSD or 4.3BSD struct msghdr
#
AC_MSG_CHECKING(for struct msghdr flavor)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct msghdr msg; msg.msg_flags = 0; return (0);],
[AC_MSG_RESULT(4.4BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"],
[AC_MSG_RESULT(4.3BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"])
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

#
# Look for in_port_t.
#
AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <netinet/in.h>],
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)

```

```

ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
    [AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDPORTT="#define ISC_PLATFORM_NEEDPORTT 1"])
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE([
#include <netdb.h>],
[struct addrinfo a; return (0);],
    [AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO)],
    [AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = sethostent(0); return(0);],
    [AC_MSG_RESULT(yes)],
    [AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endhostent(); return(0);],
    [AC_MSG_RESULT(yes)
ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
    [AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"])
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)

AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = setnetent(0); return(0);],
    [AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
    [AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"])
AC_SUBST(ISC_LWRES_SETNETENTINT)

AC_MSG_CHECKING(for int endnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endnetent(); return(0);],
    [AC_MSG_RESULT(yes)

```

```

ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"])
AC_SUBST(ISC_LWRES_ENDNETENTINT)

AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE([
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);],
[return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"])
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE([
#include <netdb.h>],
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO"],
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"])
AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,
[ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"],
[ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"])
AC_CHECK_FUNC(getnameinfo,
[ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"],
[ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"])
AC_CHECK_FUNC(getaddrinfo,
[ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"]
AC_DEFINE(HAVE_GETADDRINFO)],
[ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
[NEED_PSELECT="#undef NEED_PSELECT"],
[NEED_PSELECT="#define NEED_PSELECT"])
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
[NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
[NEED_GETTIMEOFDAY="#define NEED_GETTIMEOFDAY 1"])
AC_SUBST(NEED_GETTIMEOFDAY)

```

```

AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
    [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [
#include <sys/param.h>
#include <sys/sysctl.h>
#include <sys/socket.h>
#ifdef NET_RT_IFLIST
found_rt_iflist
#endif
],
    [AC_MSG_RESULT(yes)
    AC_DEFINE(HAVE_IFLIST_SYSCTL)],
    [AC_MSG_RESULT(no)])

#
# Check for some other useful functions that are not ever-present.
#
AC_CHECK_FUNC(strsep,
    [ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],
    [ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,
    [ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
    [ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS print.$O"
    ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS print.c"
    ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1"])
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)

AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
    [USE_SYSError_LIST="#undef USE_SYSError_LIST"],
    [USE_SYSError_LIST="#define USE_SYSError_LIST 1"])
AC_SUBST(USE_SYSError_LIST)

#
# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.

```

```
#
AC_MSG_CHECKING(sprintf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(I)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "I"'],
[AC_MSG_RESULT(II)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "II"'],
[AC_MSG_RESULT(default II)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "II"'])
AC_SUBST(ISC_PLATFORM_QUADFORMAT)
```

```
#
# Security Stuff
#
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))
```

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

```

],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long)]
,
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T int"
AC_MSG_RESULT(int)
))))
AC_SUBST(ISC_SOCKLEN_T)

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

AC_CHECK_FUNC(setgroupent,,AC_DEFINE(NEED_SETGROUPEMENT))

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

```

```

NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetbyaddr_r (unsigned long int, int, struct netent *,
                    char *, size_t, struct netent **, int *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errnop"
NET_R_BAD="#define NET_R_BAD ERANGE"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS char *buf, size_t buflen"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"

```

```

NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"
],
AC_TRY_COMPILE(
#undef __USE_MISC
#define __USE_MISC
[#include <netdb.h>
int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
],
)
)
)
)
)
,
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
)
case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)

```


AC_SUBST(GETNETBYADDR_ADDR_T)

AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,

AC_TRY_COMPILE(

[

#undef __USE_MISC

#define __USE_MISC

#include <netdb.h>

void setnetent_r (int);

], [return (0);], [

NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"

NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"

NET_R_SET_RETURN="#define NET_R_SET_RETURN void"

],

AC_TRY_COMPILE(

[

#define _REENTRANT

#undef __USE_MISC

#define __USE_MISC

#include <netdb.h>

extern int setnetent_r(int, struct netent_data *);

], [return (0);], [

NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"

NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"

NET_R_SET_RETURN="#define NET_R_SET_RETURN int"

],

)

)

,

NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"

NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"

NET_R_SET_RETURN="#define NET_R_SET_RETURN void"

)

AC_SUBST(NET_R_ENT_ARGS)

AC_SUBST(NET_R_SET_RESULT)

AC_SUBST(NET_R_SET_RETURN)

AC_CHECK_FUNC(endnetent_r,

AC_TRY_COMPILE(

[

#undef _REENTRANT

#define _REENTRANT

#undef __USE_MISC

#define __USE_MISC

#include <netdb.h>

void endnetent_r (void);

], [return (0);], [

```

NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) return (x)"
NET_R_END_RETURN="#define NET_R_END_RETURN int"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
)
)
)
,
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
)
AC_SUBST(NET_R_END_RESULT)
AC_SUBST(NET_R_END_RETURN)

AC_CHECK_FUNC(getgrnam_r,,AC_DEFINE(NEED_GETGRNAM_R))
AC_CHECK_FUNC(getgrgid_r,,AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrent_r,
AC_TRY_COMPILE(
[
#include <grp.h>
struct group *getgrent_r(struct group *grp, char *buffer,
int buflen) { }
],[return (0);],[
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"

```

```

GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
],
)
,
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
AC_DEFINE(NEED_GETGENT_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_ENDGENT_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_SETGENT_R)
)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)

AC_CHECK_FUNC(gethostbyname_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct hostent *gethostbyname_r
(const char *name, struct hostent *hp, char *buf, int len, int *h_errnop) { }
],
[return (0);],

```

```

[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int gethostbyname_r(const char *name,
                    struct hostent *result,
                    struct hostent_data *hdptr);
], [
HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
HOST_R_BAD="#define HOST_R_BAD (-1)"
HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#define HOSTENT_DATA 1"
],
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int gethostbyname_r (const char *,
                          struct hostent *,
                          char *, size_t,
                          struct hostent **,
                          int *);
], [
HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"

```

```

HOSTENT_DATA="#undef HOSTENT_DATA"
],
)))
,
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
)
AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int endhostent_r(struct hostent_data *buffer);
], ,
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(struct hostent_data *ht_data);
],[],[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"

```

```

],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(void);
],[[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
],
)
)
)
,
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
)
AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void sethostent_r(int flag, struct hostent_data *ht_data);],[[
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT /*empty*/"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int sethostent_r(int flag, struct hostent_data *ht_data);],[[
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC

```

```

#define __USE_MISC
#include <netdb.h>
void      sethostent_r (int);[],[]
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
)
)
)
,
HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"
)
AC_SUBST(HOST_R_SET_RESULT)
AC_SUBST(HOST_R_SET_RETURN)

```

```

AC_MSG_CHECKING(struct passwd element pw_class)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
],[struct passwd *pw; pw->pw_class = "";],
AC_MSG_RESULT(yes)
AC_DEFINE(HAS_PW_CLASS)
,
AC_MSG_RESULT(no)
)

```

```

AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
void
setpwent(void) { }
],
[return (0);],
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)

```

```

AC_TRY_COMPILE([
#include <sys/types.h>
#include <grp.h>
void
setgrent(void) { }
],
[return (0);],
SETGRENT_VOID="#define SETGRENT_VOID 1"

```

```

,
SETGRENT_VOID="#undef SETGRENT_VOID"
)
AC_SUBST(SETGRENT_VOID)

AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, int l) { }
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) { }
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetgrent_r( char **, char **, char **, void **);

```



```

]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS void **buf"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
NGR_R_PRIVATE="#define NGR_R_PRIVATE 1"
]
,
)
)
)
,
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
)
AC_SUBST(NGR_R_ARGS)
AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)
AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(endnetgrent_r,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) return (x)"
NGR_R_END_RETURN="#define NGR_R_END_RETURN int"
NGR_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"
,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"
NGR_R_END_RETURN="#define NGR_R_END_RETURN void"
NGR_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGRENT_R)
)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)

AC_CHECK_FUNC(setnetgrent_r,
[

```

```

case "$host" in
*bsdi*)
    NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
    NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
    ;;
*)
    NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
    NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
    ;;
esac
]
,
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
)
AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(innetgr_r,,AC_DEFINE(NEED_INNETGR_R))

AC_CHECK_FUNC(getprotoent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct protoent *getprotoent_r(struct protoent *result,
    char *buffer, int buflen) { }
]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);

```

```

]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
PROTO_R_OK="#define PROTO_R_OK 0"
PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="#define PROTO_R_RETURN int"
]
,
)
)
,
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
)
AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)
AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)

AC_CHECK_FUNC(endprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endprotoent_r(void);
]
,,
[
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"

```

```

PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS"
]
,
)
,
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/"
)
AC_SUBST(PROTO_R_END_RESULT)
AC_SUBST(PROTO_R_END_RETURN)
AC_SUBST(PROTO_R_ENT_ARGS)

AC_CHECK_FUNC(setprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void          setprotoent_r __P((int));
].[],
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
,
)
,
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
)
AC_SUBST(PROTO_R_SET_RESULT)
AC_SUBST(PROTO_R_SET_RETURN)

AC_CHECK_FUNC(getpwent_r,
AC_TRY_COMPILE(
[
#include <sys/types.h>
#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) { }
]
,
[]
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"

```

```

PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
,
)
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
AC_DEFINE(NEED_GETPWENT_R)
)
AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)

AC_CHECK_FUNC(endpwent_r,
AC_TRY_COMPILE(
[
#include <pwd.h>
void endpwent_r(FILE **pwfp);
], ,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
,
)
,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#undef PASS_R_ENT_ARGS"
AC_DEFINE(NEED_ENDPWENT_R)
)
AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r,,AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))

AC_CHECK_FUNC(setpwent_r,
AC_TRY_COMPILE([
#include <pwd.h>
void setpwent_r(FILE **pwfp);

```

```

], ,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
AC_TRY_COMPILE([
#include <pwd.h>
int setpwent_r(FILE **pwfp);
], ,
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
)
)
,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /*empty*/"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"
AC_DEFINE(NEED_SETPWENT_R)
)
AC_SUBST(PASS_R_SET_RESULT)
AC_SUBST(PASS_R_SET_RETURN)

AC_CHECK_FUNC(getpwnam_r,,AC_DEFINE(NEED_GETPWNAM_R))
AC_CHECK_FUNC(getpwuid_r,,AC_DEFINE(NEED_GETPWUID_R))

AC_CHECK_FUNC(getservent_r,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct servent *
getservent_r(struct servent *result, char *buffer, int buflen) { }
],[return (0);],
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getservent_r (struct servent *, char *, size_t, struct servent **);

```

```

],[return (0);],
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
SERV_R_BAD="#define SERV_R_BAD ERANGE"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS char *buf, size_t buflen"
SERV_R_OK="#define SERV_R_OK (0)"
SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
SERV_R_RETURN="#define SERV_R_RETURN int"
]
,
)
)
,
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK spttr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)
AC_SUBST(SERV_R_RETURN)

AC_CHECK_FUNC(endserver_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endserver_r(void);
]
,
,
[
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
]
,

```

```

)
,
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
)
AC_SUBST(SERV_R_END_RESULT)
AC_SUBST(SERV_R_END_RETURN)
AC_SUBST(SERV_R_ENT_ARGS)

AC_CHECK_FUNC(setservent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      setservent_r(int);
]
,
[
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
]
,
)
,
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
)
AC_SUBST(SERV_R_SET_RESULT)
AC_SUBST(SERV_R_SET_RETURN)

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int inetgr(const char *netgroup, const char *host, const char *user, const char *domain);
]
,
[
INETGR_ARGS="#undef INNETGR_ARGS"
]

```



```
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int innetgr(char *netgroup, char *host, char *user, char *domain);
]
,,
[
INETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"
]
,
))
```

```
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(const char *);
]
,,
[
SETNETGMENT_ARGS="#undef SETNETGMENT_ARGS"
]
,
```

```
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(char *);
]
,,
[
SETNETGMENT_ARGS="#define SETNETGMENT_ARGS char *netgroup"
]
,
```

```

))
AC_SUBST(SETNETGRENTH_ARGS)
AC_SUBST(INNETGR_ARGS)

#
# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?
#
AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
*-bsdi3.1*)
hack_shutup_sputaux=yes
;;
*-bsdi4.0*)
hack_shutup_sigwait=yes
hack_shutup_sputaux=yes
hack_shutup_in6addr_init_macros=yes
;;
*-bsdi4.1*)
hack_shutup_stdargcast=yes
;;
*-solaris2.8)
hack_shutup_pthreadonceinit=yes
hack_shutup_in6addr_init_macros=yes
;;
esac

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

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

```

```

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

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

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

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

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

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

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

AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api

AC_OUTPUT(
make/rules
make/mkdep
make/includes

```

Makefile
bsd/Makefile
dst/Makefile
include/Makefile
inet/Makefile
irs/Makefile
isc/Makefile
nameser/Makefile
port_after.h
port_before.h
resolv/Makefile
port/Makefile
\${PORT_DIR}/Makefile
\${PORT_INCLUDE}/Makefile
)

Tell Emacs to edit this file in shell mode.

Local Variables:

mode: sh

End:

Found in path(s):

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/configure.in

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Found in path(s):

* /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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; \$Id: bindevt.mc,v 1.1 2004/11/03 01:39:06 abstine Exp \$

MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)

OutputBase = 16

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

MessageId=0x2
Severity=Warning
Facility=Application
SymbolicName=BIND_WARN_MSG
Language=English
% 1
.

MessageId=0x3
Severity=Informational
Facility=Application
SymbolicName=BIND_INFO_MSG
Language=English
% 1
.

Found in path(s):

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/win32/bindevt/bindevt.mc

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```
.\" $Id: logging.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
.\"
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.\"
.\" The following six UNCOMMENTED lines are required.
.\"Os OPERATING_SYSTEM [version/release]
.\"Dt DOCUMENT_TITLE [section number] [volume]
.\" The following requests should be uncommented and
.\" used where appropriate. This next request is
.\" for sections 2 and 3 function return values only.
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" .Sh DIAGNOSTICS
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS
```

Found in path(s):

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/logging.mdoc

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 */
 /*
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 */

Found in path(s):

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/commandline.c

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 */
```

Found in path(s):

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_data.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/resolv/res_data.c
```

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```
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*/

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_addr.c

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

```

Found in path(s):

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_buffer.3
```

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/*
```

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```

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```

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/heap.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/mem.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/assertions.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/heap.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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```

Found in path(s):

```

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/cc/include/isc/cc/result.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/cc/result.c

```

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 */

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/include/netdb.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/rdata/generic/unspec_103.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/dnssec.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/tsig.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/log.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/masterdump.h

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/hs_4/a_1.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/journal.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/gpos_27.c

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/nsap_22.c

- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/zt.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/events.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/netaddr.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/acl.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/ncache.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/ratelimiter.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/ipv6.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/nxt_30.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/x25_19.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rbt.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/zt.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/ratelimiter.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/master.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rootns.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/tsig.h
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/wks_11.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/lfsr.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/aaaa_28.c
- * /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/acl.c

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-->

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

<refentry>

<refentryinfo>

<date>Oct 18, 2000</date>

</refentryinfo>

<refmeta>

```

<refentrytitle>lwres_getrrsetbyname</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_getrrsetbyname</refname>
<refname>lwres_freerrset</refname>
<refpurpose>retrieve DNS records</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
int
<function>lwres_getrrsetbyname</function></funcdef>
<paramdef>const char *hostname</paramdef>
<paramdef>unsigned int rdclass</paramdef>
<paramdef>unsigned int rdtype</paramdef>
<paramdef>unsigned int flags</paramdef>
<paramdef>struct rrsetinfo **res</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freerrset</function></funcdef>
<paramdef>struct rrsetinfo *rrset</paramdef>
</funcprototype>
</funcsynopsis>

```

<para>

The following structures are used:

<programlisting>

```

struct rdatainfo {
    unsigned int    rdi_length;    /* length of data */
    unsigned char   *rdi_data;     /* record data */
};

struct rrsetinfo {
    unsigned int    rri_flags;     /* RRSET_VALIDATED... */
    unsigned int    rri_rdclass;   /* class number */
    unsigned int    rri_rdtype;    /* RR type number */
    unsigned int    rri_ttl;       /* time to live */
    unsigned int    rri_nrdatas;   /* size of rdatas array */
    unsigned int    rri_nsigs;     /* size of sigs array */
    char            *rri_name;     /* canonical name */
    struct rdatainfo *rri_rdatas;  /* individual records */
    struct rdatainfo *rri_sigs;    /* individual signatures */
}

```

```
};  
</programlisting>  
</para>  
</refsynopsisdiv>
```

```
<refsect1>  
<title>DESCRIPTION</title>  
<para>  
<function>lwres_getrrsetbyname()</function>  
gets a set of resource records associated with a  
<parameter>hostname</parameter>,  
  
<parameter>class</parameter>,  
  
and  
<parameter>type</parameter>.
```

```
<parameter>hostname</parameter>  
is  
a pointer to a null-terminated string. The  
<parameter>flags</parameter>  
field is currently unused and must be zero.  
</para>
```

```
<para>  
After a successful call to  
<function>lwres_getrrsetbyname()</function>,
```

```
<parameter>*res</parameter>  
is a pointer to an  
<type>rrsetinfo</type>  
structure, containing a list of one or more  
<type>rdatainfo</type>  
structures containing resource records and potentially another list of  
<type>rdatainfo</type>  
structures containing SIG resource records  
associated with those records.
```

The members

```
<constant>rri_rdclass</constant>  
and
```

```
<constant>rri_rdtype</constant>  
are copied from the parameters.
```

```
<constant>rri_ttl</constant>  
and
```

```
<constant>rri_name</constant>  
are properties of the obtained rrset.
```

The resource records contained in
<constant>rri_rdatas</constant>
and

<constant>rri_sigs</constant>

are in uncompressed DNS wire format.

Properties of the rdataset are represented in the

<constant>rri_flags</constant>

bitfield. If the RRSET_VALIDATED bit is set, the data has been DNSSEC validated and the signatures verified.

</para>

<para>

All of the information returned by

<function>lwres_getrrsetbyname()</function>

is dynamically allocated: the

<constant>rrsetinfo</constant>

and

<constant>rdatainfo</constant>

structures,

and the canonical host name strings pointed to by the

<constant>rrsetinfo</constant>structure.

Memory allocated for the dynamically allocated structures created by a successful call to

<function>lwres_getrrsetbyname()</function>

is released by

<function>lwres_freerrset()</function>.

<parameter>rrset</parameter>

is a pointer to a

<type>struct rrset</type>

created by a call to

<function>lwres_getrrsetbyname()</function>.

</para>

<para>

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres_getrrsetbyname()</function>

returns zero on success, and one of the following error codes if an error occurred:

<variablelist>

<varlistentry><term><constant>ERRSET_NONAME</constant></term>

<listitem><para>

the name does not exist

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_NODATA</constant></term>

<listitem><para>
the name exists, but does not have data of the desired type
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_NOMEMORY</constant></term>
<listitem><para>
memory could not be allocated
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_INVALID</constant></term>
<listitem><para>
a parameter is invalid
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_FAIL</constant></term>
<listitem><para>
other failure
</para></listitem></varlistentry>

<varlistentry><term><constant></constant></term>
<listitem><para>
</para></listitem></varlistentry>

</variablelist>

</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>

</refsect1>
</refentry>

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* /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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```

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*/

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

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

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

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

    tac_details
        "Eventlib historical summary for detected hog.";
}

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

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

    arg {
        "int" set_count "element set count";
        "char *" position_string "event call type";
        "char *" position_string "event condition";
        "int" set_time "element set time";
        "int" unset_time "element unset time";
    }
}

```

```

"int" hog_check "element hog check result";
"int" caller "caller builtin return address";
"char *" any_string "element callback render buffer";
}
explanation
    "Eventlib historical element for detected hog.";

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

tac_details
    "Eventlib historical element for detected hog.";
}

```

Found in path(s):

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1.7 libxml2 2.9.7

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1.9 open-ldap 2.4.46

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1.10 python-setuptools 49.6.0 r0

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.\"Os OPERATING_SYSTEM [version/release]
.\" The following requests should be uncommented and
.\" used where appropriate. This next request is
.\" for sections 2 and 3 function return values only.
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
```

.\ " .Sh STANDARDS

.\ " .Sh HISTORY

.\ " .Sh BUGS

Found in path(s):

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

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/dst/md5_locl.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/dst/md5.h

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/*

* SHA-1 in C
* By Steve Reid <steve@edmweb.com>
* 100% Public Domain

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/sha1.h

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```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/events.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/log.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/aaaa_28.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/x25_19.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rdataslab.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/ratelimiter.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/tsig.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/lfsr.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/nsap_22.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/isdn_20.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/nxt_30.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/compress.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/dnssec.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/ipv6.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/journal.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/gpos_27.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/netaddr.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/unspec_103.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/hs_4/a_1.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/master.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/callbacks.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rbt.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/ratelimiter.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/tsig.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/acl.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/wks_11.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/zt.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/masterdump.h
```


* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/acl.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/ncache.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rootns.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/zt.c

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.\" \$Id: lwres_resutil.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_resutil.3

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isccc/include/isccc/cc.h

- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/include/iscxx/types.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/include/iscxx/symtab.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/base64.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/symtab.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/include/iscxx/ccmsg.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/include/iscxx/events.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/ccmsg.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/include/iscxx/lib.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/sexpr.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/alist.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/include/iscxx/symtype.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/include/iscxx/alist.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/include/iscxx/sexpr.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/lib.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/include/iscxx/util.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscxx/include/iscxx/base64.h

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_getrrsetbyname.3

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.\"
.\" $Id: lwres_gai_strerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
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 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/irp_pw.c

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 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getserver.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getprotoent.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/openbsd/include/sys/bitypes.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/dns_sv.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/lcl_p.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_net_ntop.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/pathnames.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_neta.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/hpux9/include/sys/bitypes.h

- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nul_ng.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/unixware20/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/bsdos/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getnetgrent.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/irs_p.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/hesiod_p.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/hesiod.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nis_ng.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/cygwin/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nis_pr.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gen_nw.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/aix4/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/mpe/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/next/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/bitncmp.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gen_pw.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/nameser/ns_parse.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/qnx/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/irs.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_net_pton.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/sunos/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nis_p.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gen_pr.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_pton.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/aix32/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/nameser/ns_netint.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/irix/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/unixware212/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/dns_pw.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/util.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/freebsd/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/hpux/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/irs_data.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nis_ho.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/nameser/ns_name.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gen_ng.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/irs_data.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gen_p.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/ultrix/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/lynxos/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nis_sv.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getnetent.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nis_pw.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/sco42/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/netbsd/include/sys/bitypes.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gen_sv.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/hesiod.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/bsdos2/include/sys/bitypes.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nis_nw.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/dns_pr.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/nameser/ns_ttl.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getpwent.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/decunix/include/sys/bitypes.h
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/assertions.h

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

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

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

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

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

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

*

* 'options' is passed to dns_message_parse(). See dns_message_parse()

* for more details.

*

* Requires:

*

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

* completion event.

*

* The result code of the completion event was ISC_R_SUCCESS.

*

* Returns:

*

* ISC_R_SUCCESS

*

* Any result that dns_message_parse() can return.

*/

Found in path(s):

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

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/mx_15.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/mf_4.h
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/win32/version.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/time.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscconf/win32/version.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind9/win32/version.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/ns_2.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/txt_16.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rdatatype.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/mb_7.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/thread.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/version.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/event.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/boolean.h
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/minfo_14.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/win32/version.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/hinfo_13.h

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- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_ntoa.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_netof.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_makeaddr.c

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

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

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

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

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

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</refentryinfo>

<refmeta>

<refentrytitle>lwres_gethostent</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres_gethostbyname</refname>

<refname>lwres_gethostbyname2</refname>

<refname>lwres_gethostbyaddr</refname>

<refname>lwres_gethostent</refname>

<refname>lwres_sethostent</refname>

<refname>lwres_endhostent</refname>

<refname>lwres_gethostbyname_r</refname>

<refname>lwres_gethostbyaddr_r</refname>

<refname>lwres_gethostent_r</refname>

<refname>lwres_sethostent_r</refname>

<refname>lwres_endhostent_r</refname>

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

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

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

<funcprototype>

<funcdef>

struct hostent *

<function>lwres_gethostbyname</function></funcdef>

<paramdef>const char *name</paramdef>

</funcprototype>

```

<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname2</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr_r</function></funcdef>
<paramdef>const char *addr</paramdef>

```

```

<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_ghostent_r</function></funcdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent_r</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent_r</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>

```

<refsect1>

<title>DESCRIPTION</title>

<para>

These functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver.

They are similar to the standard

<citerefentry>

<refentrytitle>gethostent</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

functions provided by most operating systems.

They use a

<type>struct hostent</type>

which is usually defined in

<filename><namedb.h></filename>.

<programlisting>

```

struct hostent {
    char  *h_name;      /* official name of host */
    char  **h_aliases;  /* alias list */
    int   h_addrtype;   /* host address type */
    int   h_length;     /* length of address */
    char  **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */

```

</programlisting>

</para>

<para>

The members of this structure are:

<variablelist>

<varlistentry><term><constant>h_name</constant></term>

<listitem>

<para>

The official (canonical) name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h_addrtype</constant></term>

<listitem>

<para>

The type of address being returned —

<type>PF_INET</type>

or

<type>PF_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h_addr_list</constant></term>

<listitem>

<para>

A <type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

For backward compatibility with very old software,

<constant>h_addr</constant>

is the first address in

<constant>h_addr_list.</constant>

</para>

<para>

<function>lwres_gethostent()</function>,&br/><function>lwres_sethostent()</function>,&br/><function>lwres_endhostent()</function>,&br/><function>lwres_gethostent_r()</function>,&br/><function>lwres_sethostent_r()</function>

and

<function>lwres_endhostent_r()</function>

provide iteration over the known host entries on systems that

provide such functionality through facilities like

<filename>/etc/hosts</filename>

or NIS. The lightweight resolver does not currently implement

these functions; it only provides them as stub functions that always

return failure.

</para>

<para>

<function>lwres_gethostbyname()</function> and

<function>lwres_gethostbyname2()</function> look up the hostname

<parameter>name</parameter>.

<function>lwres_gethostbyname()</function> always looks for an IPv4

address while <function>lwres_gethostbyname2()</function> looks for an

address of protocol family <parameter>af</parameter>: either

<type>PF_INET</type> or <type>PF_INET6</type> — IPv4 or IPV6

addresses respectively. Successful calls of the functions return a

<type>struct hostent</type> for the name that was looked up.

<type>NULL</type> is returned if the lookups by

<function>lwres_gethostbyname()</function> or

<function>lwres_gethostbyname2()</function> fail.

</para>

<para>

Reverse lookups of addresses are performed by

<function>lwres_gethostbyaddr()</function>.

<parameter>addr</parameter> is an address of length

<parameter>len</parameter> bytes and protocol family

<parameter>type</parameter> — <type>PF_INET</type> or

<type>PF_INET6</type>.

<function>lwres_gethostbyname_r()</function> is a thread-safe function

for forward lookups. If an error occurs, an error code is returned in

<parameter>*error</parameter>.

<parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <function>lwres_ghetostbyname_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_ghetostbyname_r()</function> return <parameter>resbuf</parameter>, which is a pointer to the <type>struct hostent</type> it created.

<para>

<function>lwres_ghetostbyaddr_r()</function> is a thread-safe function that performs a reverse lookup of address <parameter>addr</parameter> which is <parameter>len</parameter> bytes long and is of protocol family <parameter>type</parameter> — <type>PF_INET</type> or <type>PF_INET6</type>. If an error occurs, the error code is returned in <parameter>*error</parameter>. The other function parameters are identical to those in <function>lwres_ghetostbyname_r()</function>.

<parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <function>lwres_ghetostbyaddr_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_ghetostbyaddr_r()</function> return <parameter>resbuf</parameter>, which is a pointer to the <function>struct hostent()</function> it created.

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The functions

<function>lwres_ghetostbyname()</function>,
 <function>lwres_ghetostbyname2()</function>,
 <function>lwres_ghetostbyaddr()</function>,
 and

<function>lwres_ghetostent()</function>

return NULL to indicate an error. In this case the global variable

<type>lwres_h_errno</type>

will contain one of the following error codes defined in

<filename><lwres/netdb.h></filename>:

<variablelist>

<varlistentry><term><constant>HOST_NOT_FOUND</constant></term>

<listitem>

<para>

The host or address was not found.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>TRY_AGAIN</constant></term>

<listitem>

<para>

A recoverable error occurred, e.g., a timeout.

Retrying the lookup may succeed.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO_RECOVERY</constant></term>

<listitem>

<para>

A non-recoverable error occurred.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO_DATA</constant></term>

<listitem>

<para>

The name exists, but has no address information associated with it (or vice versa in the case of a reverse lookup). The code NO_ADDRESS is accepted as a synonym for NO_DATA for backwards compatibility.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<citerefentry>

<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

translates these error codes to suitable error messages.

</para>

<para>

<function>lwres_gethostent()</function>

and

<function>lwres_gethostent_r()</function>

always return

<type>NULL</type>.

</para>

<para>

Successful calls to <function>lwres_gethostbyname_r()</function> and

<function>lwres_gethostbyaddr_r()</function> return

<parameter>resbuf</parameter>, a pointer to the <type>struct

hostent</type> that was initialised by these functions. They return

<type>NULL</type> if the lookups fail or if <parameter>buf</parameter>

was too small to hold the list of addresses and names referenced by

the <constant>h_name</constant>, <constant>h_aliases</constant>, and

<constant>h_addr_list</constant> elements of the <type>struct

hostent</type>. If <parameter>buf</parameter> was too small, both

<function>lwres_gethostbyname_r()</function> and

<function>lwres_gethostbyaddr_r()</function> set the global variable

<type>errno</type> to <errorcode>ERANGE</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>gethostent</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&p>

<citerefentry>

<refentrytitle>lwres_getipnode</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&p>

<citerefentry>

<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

</para>

</refsect1>

<refsect1>

<title>BUGS</title>

<para>

<function>lwres_gethostbyname()</function>,&p>

<function>lwres_gethostbyname2()</function>,&p>

<function>lwres_gethostbyaddr()</function>

and

<function>lwres_endhostent()</function>

are not thread safe; they return pointers to static data and

provide error codes through a global variable.

Thread-safe versions for name and address lookup are provided by

<function>lwres_gethostbyname_r()</function>,

and

<function>lwres_gethostbyaddr_r()</function>

respectively.

</para>

<para>

The resolver daemon does not currently support any non-DNS

name services such as

<filename>/etc/hosts</filename>

or

<type>NIS</type>,

consequently the above functions don't, either.

</para>

</refsect1>

</refentry>

Found in path(s):

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_gethostent.docbook

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

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-->

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

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

```

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

<refnamediv>
<refname>lwres_conf_init</refname>
<refname>lwres_conf_clear</refname>
<refname>lwres_conf_parse</refname>
<refname>lwres_conf_print</refname>
<refname>lwres_conf_get</refname>
<refpurpose>lightweight resolver configuration</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
void
<function>lwres_conf_init</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_conf_clear</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *filename</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_print</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>FILE *fp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_conf_t *
<function>lwres_conf_get</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>

```

</funcprototype>

</funcsynopsis>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres_conf_init()</function>

creates an empty

<type>lwres_conf_t</type>

structure for lightweight resolver context

<parameter>ctx</parameter>.

</para>

<para>

<function>lwres_conf_clear()</function>

frees up all the internal memory used by
that

<type>lwres_conf_t</type>

structure in resolver context

<parameter>ctx</parameter>.

</para>

<para>

<function>lwres_conf_parse()</function>

opens the file

<parameter>filename</parameter>

and parses it to initialise the resolver context

<parameter>ctx</parameter>'s

<type>lwres_conf_t</type>

structure.

</para>

<para>

<function>lwres_conf_print()</function>

prints the

<type>lwres_conf_t</type>

structure for resolver context

<parameter>ctx</parameter>

to the

<type>FILE</type>

<parameter>fp</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres_conf_parse()</function>

returns

<errorcode>LWRES_R_SUCCESS</errorcode>

if it successfully read and parsed

<parameter>filename</parameter>.

It returns

<errorcode>LWRES_R_FAILURE</errorcode>

if

<parameter>filename</parameter>

could not be opened or contained incorrect

resolver statements.

</para>

<para>

<function>lwres_conf_print()</function>

returns

<errorcode>LWRES_R_SUCCESS</errorcode>

unless an error occurred when converting the network addresses to a numeric host address string.

If this happens, the function returns

<errorcode>LWRES_R_FAILURE</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

<citerefentry>

<refentrytitle>resolver</refentrytitle><manvolnum>5</manvolnum>

</citerefentry>.

</refsect1>

<refsect1>

<title>FILES</title>

<para>

<filename>/etc/resolv.conf</filename>

</para>

</refsect1>

</refentry>

Found in path(s):

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_config.docbook

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- *
- * @(#)cdefs.h 8.7 (Berkeley) 1/21/94
- */

Found in path(s):

- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/aux3/include/sys/cdefs.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/qnx/include/sys/cdefs.h

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

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/* \$Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp \$ */

#ifndef ISC_PLATFORM_H

#define ISC_PLATFORM_H 1

/*

***** Platform-dependent defines.

*****/

/*

*** Network.

*****/

/*

* Define if this system needs the <netinet/in6.h> header file included
* for full IPv6 support (pretty much only UnixWare).

*/

@ISC_PLATFORM_NEEDNETINETIN6H@

/*

* Define if this system needs the <netinet6/in6.h> header file included


```

* to support in6_pkinfo (pretty much only BSD/OS).
*/
@ISC_PLATFORM_NEEDNETINET6IN6H@

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

/*
* If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6
* will be defined.
*/
@ISC_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, ISC_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDIN6ADDRLOOPBACK
* will be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
* If this system has in6_pkinfo, ISC_PLATFORM_HAVEIN6PKTINFO will be
* defined.
*/
@ISC_PLATFORM_HAVEIN6PKTINFO@

/*
* If this system has in_addr6, rather than in6_addr, ISC_PLATFORM_HAVEINADDR6
* will be defined.
*/
@ISC_PLATFORM_HAVEINADDR6@

/*
* If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.
*/
@ISC_PLATFORM_HAVESCOPEID@

/*
* If this system needs inet_ntop(), ISC_PLATFORM_NEEDNTOP will be defined.
*/

```

@ISC_PLATFORM_NEEDNTOP@

/*

* If this system needs inet_pton(), ISC_PLATFORM_NEEDPTON will be defined.

*/

@ISC_PLATFORM_NEEDPTON@

/*

* If this system needs inet_aton(), ISC_PLATFORM_NEEDATON will be defined.

*/

@ISC_PLATFORM_NEEDATON@

/*

* If this system needs in_port_t, ISC_PLATFORM_NEEDPORTT will be defined.

*/

@ISC_PLATFORM_NEEDPORTT@

/*

* If the system needs strsep(), ISC_PLATFORM_NEEDSTRSEP will be defined.

*/

@ISC_PLATFORM_NEEDSTRSEP@

/*

* If the system needs strlcpy(), ISC_PLATFORM_NEEDSTRLCPY will be defined.

*/

@ISC_PLATFORM_NEEDSTRLCPY@

/*

* If the system needs strlcat(), ISC_PLATFORM_NEEDSTRLCAT will be defined.

*/

@ISC_PLATFORM_NEEDSTRLCAT@

/*

* Define either ISC_PLATFORM_BSD44MSGHDR or ISC_PLATFORM_BSD43MSGHDR.

*/

@ISC_PLATFORM_MSGHDRFLAVOR@

/*

* Define if PTHREAD_ONCE_INIT should be surrounded by braces to

* prevent compiler warnings (such as with gcc on Solaris 2.8).

*/

@ISC_PLATFORM_BRACEPTHREADONCEINIT@

/*

* Define on some UnixWare systems to fix erroneous definitions of various

* IN6_IS_ADDR_* macros.

*/

@ISC_PLATFORM_FIXIN6ISADDR@

```

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

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

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

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

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

/*
* Defined if unistd.h does not cause fd_set to be delared.
*/
@ISC_PLATFORM_NEEDSYSSELECTH@

/*
* Type used for resource limits.
*/
@ISC_PLATFORM_RLIMITTYPE@

/*
* Define if your compiler supports "long long int".
*/
@ISC_PLATFORM_HAVELONGLONG@

/*
* Define if the system has struct lifconf which is a extended struct ifconf
* for IPv6.
*/
@ISC_PLATFORM_HAVELIFCONF@

/*

```

```

* Define if the system has struct if_laddrconf which is a extended struct
* ifconf for IPv6.
*/
@ISC_PLATFORM_HAVEIF_LADDRCONF@

/*
* Define if the system has struct if_laddrreq.
*/
@ISC_PLATFORM_HAVEIF_LADDRREQ@

/*
* Used to control how extern data is linked; needed for Win32 platforms.
*/
@ISC_PLATFORM_USEDECLSPEC@

/*
* Define if the system supports if_nametoindex.
*/
@ISC_PLATFORM_HAVEIFNAMETOINDEX@

/*
* Define if this system needs strtoul.
*/
@ISC_PLATFORM_NEEDSTRTOUL@

/*
* Define if this system needs memmove.
*/
@ISC_PLATFORM_NEEDMEMMOVE@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#define LIBBIND9_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#ifdef LIBISC_EXPORTS
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCC_EXPORTS

```

```

#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif /* ISC_PLATFORM_USEDECLSPEC */

```

```

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

```

```

#endif /* ISC_PLATFORM_H */

```

Found in path(s):

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

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.\"
.\" The following six UNCOMMENTED lines are required.

```

```

.\"Os OPERATING_SYSTEM [version/release]
.\"Dt DOCUMENT_TITLE [section number] [volume]
.\" The following requests should be uncommented and
.\" used where appropriate. This next request is
.\" for sections 2 and 3 function return values only.
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" .Sh DIAGNOSTICS
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS

```

Found in path(s):

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/logging.mdoc
```

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```
<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
```

```
<!--
```

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```
-->
```

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

```
<refentry>
```

```
<refentryinfo>
```

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

```
</refentryinfo>
```

```

<refmeta>
<refentrytitle>lwres_gabn</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_gabnrequest_render</refname>
<refname>lwres_gabnresponse_render</refname>
<refname>lwres_gabnrequest_parse</refname>
<refname>lwres_gabnresponse_parse</refname>
<refname>lwres_gabnresponse_free</refname>
<refname>lwres_gabnrequest_free</refname>
<refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnresponse_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_parse</function></funcdef>

```

```

<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_gabnresponse_free</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_gabnrequest_free</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>
<refsect1>
<title>DESCRIPTION</title>
<para>
These are low-level routines for creating and parsing
lightweight resolver name-to-address lookup request and
response messages.
</para><para>
There are four main functions for the getaddrbyname opcode.
One render function converts a getaddrbyname request structure &mdash;
<type>lwres_gabnrequest_t</type> &mdash;
to the lightweight resolver's canonical format.
It is complemented by a parse function that converts a packet in this
canonical format to a getaddrbyname request structure.
Another render function converts the getaddrbyname response structure &mdash;
<type>lwres_gabnresponse_t</type> &mdash;
to the canonical format.
This is complemented by a parse function which converts a packet in
canonical format to a getaddrbyname response structure.
</para>
<para>
These structures are defined in
<filename>&lt;lwres/lwres.h&gt;</filename>.
They are shown below.
<programlisting>
#define LWRES_OPCODE_GETADDRSBYNAME    0x00010001U

typedef struct lwres_addr lwres_addr_t;

```



```
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;
```

```
typedef struct {  
    lwres_uint32_t  flags;  
    lwres_uint32_t  addrtypes;  
    lwres_uint16_t  namelen;  
    char            *name;  
} lwres_gabnrequest_t;
```

```
typedef struct {  
    lwres_uint32_t  flags;  
    lwres_uint16_t  naliases;  
    lwres_uint16_t  naddrs;  
    char            *realname;  
    char            **aliases;  
    lwres_uint16_t  realnamelen;  
    lwres_uint16_t  *aliaslen;  
    lwres_addrlist_t addrs;  
    void            *base;  
    size_t          baselen;  
} lwres_gabnresponse_t;
```

</programlisting>

</para>

<para>

<function>lwres_gabnrequest_render()</function>

uses resolver context

<parameter>ctx</parameter>

to convert getaddrbyname request structure

<parameter>req</parameter>

to canonical format.

The packet header structure

<parameter>pkt</parameter>

is initialised and transferred to

buffer

<parameter>b</parameter>.

The contents of

<parameter>*req</parameter>

are then appended to the buffer in canonical format.

<function>lwres_gabnresponse_render()</function>

performs the same task, except it converts a getaddrbyname response structure

<type>lwres_gabnresponse_t</type>

to the lightweight resolver's canonical format.

</para>

<para>

<function>lwres_gabnrequest_parse()</function>

uses context

<parameter>ctx</parameter>

to convert the contents of packet

<parameter>pkt</parameter>

to a

<type>lwres_gabnrequest_t</type>

structure.

Buffer

<parameter>b</parameter>

provides space to be used for storing this structure.

When the function succeeds, the resulting

<type>lwres_gabnrequest_t</type>

is made available through

<parameter>*structp</parameter>.

<function>lwres_gabnresponse_parse()</function>

offers the same semantics as

<function>lwres_gabnrequest_parse()</function>

except it yields a

<type>lwres_gabnresponse_t</type>

structure.

</para>

<para>

<function>lwres_gabnresponse_free()</function>

and

<function>lwres_gabnrequest_free()</function>

release the memory in resolver context

<parameter>ctx</parameter>

that was allocated to the

<type>lwres_gabnresponse_t</type>

or

<type>lwres_gabnrequest_t</type>

structures referenced via

<parameter>structp</parameter>.

Any memory associated with ancillary buffers and strings for those structures is also discarded.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The getaddrbyname opcode functions

<function>lwres_gabnrequest_render()</function>,

<function>lwres_gabnresponse_render()</function>

<function>lwres_gabnrequest_parse()</function>

and

<function>lwres_gabnresponse_parse()</function>

all return

<errorcode>LWRES_R_SUCCESS</errorcode>

on success.

They return

<errorcode>LWRES_R_NOMEMORY</errorcode>

if memory allocation fails.

<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>

is returned if the available space in the buffer

<parameter>b</parameter>

is too small to accommodate the packet header or the

<type>lwres_gabnrequest_t</type>

and

<type>lwres_gabnresponse_t</type>

structures.

<function>lwres_gabnrequest_parse()</function>

and

<function>lwres_gabnresponse_parse()</function>

will return

<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>

if the buffer is not empty after decoding the received packet.

These functions will return

<errorcode>LWRES_R_FAILURE</errorcode>

if

<structfield>pktflags</structfield>

in the packet header structure

<type>lwres_lwpacket_t</type>

indicate that the packet is not a response to an earlier query.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres_packet</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

</para>

</refsect1>

</refentry>

Found in path(s):

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_gabn.docbook

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 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/parseint.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/syslog.c
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.\"Dt DOCUMENT_TITLE [section number] [volume]
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh FILES
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" .Sh DIAGNOSTICS
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS
```

Found in path(s):

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

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.\"

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

.\"

Found in path(s):

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_getnameinfo.3

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Found in path(s):

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

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

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

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

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/dns_p.h

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

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_ntop.c

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

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

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

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

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

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

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/nsap_addr.c

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

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

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*/
/*
    * We're going to become the least open
    * version.
    */

```

Found in path(s):

```

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

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Found in path(s):

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* /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/byaddr.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/diff.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/entropy.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/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
* /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/msgsh.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/getrrset.c

```

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/validator.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscconf/parser.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 \$
.\\

Found in path(s):

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_gethostent.3
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isccc/result.c
* /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
*
* Copyright (c) 2007 by Cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

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

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_buffer.3

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* /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/dns/dbtable.c

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

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/ipv6.c

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/gen-unix.h

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/once.h

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

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/unspec_103.h

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

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/naptr_35.h

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/any_255/tsig_250.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/px_26.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/ipv6.c

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/wks_11.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rcode.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/dir.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/rdatastructpre.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/serial.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/dst_result.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/aaaa_28.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/secalg.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/taskpool.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rootns.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/bufferlist.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/lib.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/syslog.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/netdb.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/taskpool.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/keyflags.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/loc_29.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/interfaceiter.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/stdtime.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/fixedname.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/isdn_20.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/dir.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/rdatastructsuf.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/lwpacket.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/compress.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/once.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/time.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/interfaceiter.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/journal.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/bufferlist.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/dbtable.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/serial.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/magic.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rbtdb64.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rbtdb64.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/int.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/sig_24.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/nsap_22.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/lang.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/srv_33.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/pthreads/include/isc/once.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/include/dst/result.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/app.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/cert.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/rt_21.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/dst_lib.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/callbacks.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/dname_39.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/base64.h

- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/secproto.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdatasetiter.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/dname_39.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/bitstring.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/tkey.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/int.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/rp_17.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/stdtime.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/rp_17.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/lib.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/dir.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/x25_19.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/kx_36.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/lfsr.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/random.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rdatalist.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/a6_38.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/mutexblock.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rbtdb.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/bitstring.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rdatasetiter.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/gpos_27.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/syslog.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/commandline.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/stdtime.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/dbiterator.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/hs_4/a_1.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/msgcat.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/dir.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/nls/msgcat.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/netdb.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/lib.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/afsd_18.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/key_25.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/stdtime.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/tcpmsg.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/tests/include/tests/t_api.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/resultclass.h

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- */

Found in path(s):

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

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Found in path(s):

* /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
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/keyvalues.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/nsec.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/px_26.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/xfrin.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/print_p.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/afsdh_18.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/print.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/tkey.c

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Found in path(s):

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_gabn.html
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres.docbook

- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_gai_strerror.docbook
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_gai_strerror.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_getrrsetbyname.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_getaddrinfo.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_inetntop.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_inetntop.docbook
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_gnba.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_gnba.docbook
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_gethostent.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_hstrerror.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_getnameinfo.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_noop.docbook
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_getnameinfo.docbook
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_hstrerror.docbook
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_buffer.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_getipnode.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_noop.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_packet.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_context.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_resutil.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_buffer.docbook
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_config.html
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_packet.docbook

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AC_REVISION(\$Revision: 1.1 \$)

AC_INIT(resolv/herror.c)

AC_PREREQ(2.13)

AC_CONFIG_HEADER(config.h)

AC_CANONICAL_HOST

AC_PROG_MAKE_SET

AC_PROG_RANLIB

AC_PROG_INSTALL

AC_SUBST(STD_CINCLUDES)

AC_SUBST(STD_CDEFINES)

AC_SUBST(STD_CWARNINGS)

AC_SUBST(CCOPT)

AC_PATH_PROG(AR, ar)

ARFLAGS="cruv"

AC_SUBST(AR)

AC_SUBST(ARFLAGS)

The POSIX ln(1) program. Non-POSIX systems may substitute

"copy" or something.

LN=ln

AC_SUBST(LN)

case "\$AR" in

"")

AC_MSG_ERROR([

ar program not found. Please fix your PATH to include the directory in
which ar resides, or set AR in the environment with the full path to ar.

])

;;

esac

#

Etags.

#

AC_PATH_PROGS(ETAGS, etags emacs-etags)

#

Some systems, e.g. RH7, have the Exuberant Ctags etags instead of

GNU emacs etags, and it requires the -L flag.

#

if test "X\$ETAGS" != "X"; then

AC_MSG_CHECKING(for Exuberant Ctags etags)

if \$ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then

AC_MSG_RESULT(yes)

ETAGS="\$ETAGS -L"

else

AC_MSG_RESULT(no)

fi

```

fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL, perl5 perl)
AC_SUBST(PERL)

#
# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
'${prefix}/include')
includedir='${prefix}/bind/include'
;;
esac
case "$libdir" in
'${prefix}/lib')
libdir='${prefix}/bind/lib'
;;
esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
case "$INSTALL" in
/*)
;;
*)
#
# Not all systems have dirname.
#
changequote({, })
ac_dir="`echo $INSTALL | sed 's%/[^\/*]%%'"
changequote([, ])

ac_prog="`echo $INSTALL | sed 's%.*%%'"
test "$ac_dir" = "$ac_prog" && ac_dir=.
test -d "$ac_dir" && ac_dir="`(cd \"$ac_dir\" && pwd)`"
INSTALL="$ac_dir/$ac_prog"
;;
esac

```

```

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found. The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets $CC to be something, let that override
# our change.
#
if test "X$CC" = "X" ; then
case "$host" in
*-dec-osf*)
    CC="cc"
    ;;
*-solaris*)
        # Use Sun's cc if it is available, but watch
        # out for /usr/ucb/cc; it will never be the right
        # compiler to use.
        #
        # If setting CC here fails, the AC_PROG_CC done
        # below might still find gcc.
IFS="{IFS= }"; ac_save_ifs="$IFS"; IFS=":"
for ac_dir in $PATH; do
    test -z "$ac_dir" && ac_dir=.
    case "$ac_dir" in
/usr/ucb)
        # exclude
        ;;
*)
        if test -f "$ac_dir/cc"; then
            CC="$ac_dir/cc"
            break
        fi
        ;;
    esac
done
IFS="$ac_save_ifs"
;;
*-hp-hpux*)
    CC="cc"
    ;;
mips-sgi-irix*)
    CC="cc"
    ;;
esac
fi

```

AC_PROG_CC

AC_HEADER_STDC

AC_CHECK_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/sockio.h sys/select.h sys/timers.h)

AC_C_CONST

AC_C_INLINE

AC_TYPE_SIZE_T

AC_HEADER_TIME

#

check if we need to #include sys/select.h explicitly

#

case \$ac_cv_header_unistd_h in

yes)

AC_MSG_CHECKING(if unistd.h defines fd_set)

AC_TRY_COMPILE([

#include <unistd.h>],

[fd_set read_set; return (0);],

[AC_MSG_RESULT(yes)

ISC_PLATFORM_NEEDSYNSELECTH="#undef ISC_PLATFORM_NEEDSYNSELECTH"

],

[AC_MSG_RESULT(no)

case ac_cv_header_sys_select_h in

yes)

ISC_PLATFORM_NEEDSYNSELECTH="#define ISC_PLATFORM_NEEDSYNSELECTH 1"

::

no)

AC_MSG_ERROR([need either working unistd.h or sys/select.h])

::

esac

])

::

no)

case ac_cv_header_sys_select_h in

yes)

ISC_PLATFORM_NEEDSYNSELECTH="#define ISC_PLATFORM_NEEDSYNSELECTH 1"

::

no)

AC_MSG_ERROR([need either unistd.h or sys/select.h])

::

esac

::

esac

AC_SUBST(ISC_PLATFORM_NEEDSYNSELECTH)

```

#
# Find the machine's endian flavor.
#
AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,[ --with-irs-gr Build ....],
want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
    WANT_IRS_GR_OBJS="\${WANT_IRS_GR_OBJS}"
    ;;
*) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";;
esac
AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,[ --with-irs-pw Build ....],
want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
    WANT_IRS_PW_OBJS="\${WANT_IRS_PW_OBJS}";;
*) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;
esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,[ --with-irs-nis Build ....],
want_irs_nis="$withval", want_irs_nis="no")
case "$want_irs_nis" in
yes)
    WANT_IRS_NIS="#define WANT_IRS_NIS 1"
    WANT_IRS_NIS_OBJS="\${WANT_IRS_NIS_OBJS}"
    case "$want_irs_gr" in
    yes)
        WANT_IRS_NISGR_OBJS="\${WANT_IRS_NISGR_OBJS}";;
    *)
        WANT_IRS_NISGR_OBJS="";;
    esac
    case "$want_irs_pw" in
    yes)
        WANT_IRS_NISPW_OBJS="\${WANT_IRS_NISPW_OBJS}";;
    *)
        WANT_IRS_NISPW_OBJS="";;
    esac
    ;;
*)
    WANT_IRS_NIS="#undef WANT_IRS_NIS"
    WANT_IRS_NIS_OBJS=""

```

```

WANT_IRS_NISGR_OBJS=""
WANT_IRS_NISPW_OBJS="";;
esac
AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR_OBJS)
AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
#ifdef HAVE_DB_H
int have_db_h = 1;
#else
int have_db_h = 0;
#endif
main() { return(!have_db_h); }
],
WANT_IRS_DBPW_OBJS="\${WANT_IRS_DBPW_OBJS}"
,
WANT_IRS_DBPW_OBJS=""
,
WANT_IRS_DBPW_OBJS=""
)
AC_SUBST(WANT_IRS_DBPW_OBJS)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
[ --with-randomdev=PATH Specify path for random device],
use_randomdev="$withval", use_randomdev="unspec")

case "$use_randomdev" in
unspec)
case "$host" in
*-openbsd*)
devrandom=/dev/srandom
;;
*)
devrandom=/dev/random
;;
esac
AC_MSG_RESULT($devrandom)
AC_CHECK_FILE($devrandom,
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV,
"$devrandom"),)
;;
yes)
AC_MSG_ERROR([--with-randomdev must specify a path])

```



```

;;
*)
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
AC_MSG_RESULT(using "$use_randomdev")
;;
esac

#
# Begin pthreads checking.
#
# First, decide whether to use multithreading or not.
#
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
[ --disable-threads disable multithreading])
case "$enable_threads" in
yes|")
AC_MSG_RESULT(yes)
use_threads=true
;;
no)
AC_MSG_RESULT(no)
use_threads=false
;;
*)
AC_MSG_ERROR([--enable-threads takes yes or no])
;;
esac

if $use_threads
then
#
# Search for / configure pthreads in a system-dependent fashion.
#
case "$host" in
*-netbsd*)
# NetBSD has multiple pthreads implementations. The
# recommended one to use is "unproven-pthreads". The
# older "mit-pthreads" may also work on some NetBSD
# versions. The PTL2 thread library does not
# currently work with bind9, but can be chosen with
# the --with-ptl2 option for those who wish to
# experiment with it.
CC="gcc"
AC_MSG_CHECKING(which NetBSD thread library to use)

AC_ARG_WITH(ptl2,
[ --with-ptl2 on NetBSD, use the ptl2 thread library (experimental)],

```

```

    use_ptl2="$withval", use_ptl2="no")

: ${LOCALBASE:=/usr/pkg}

if test "X$use_ptl2" = "Xyes"
then
    AC_MSG_RESULT(PTL2)
    AC_MSG_WARN(
[linking with PTL2 is highly experimental and not expected to work])
    CC=ptlgcc
else
    if test ! -d $LOCALBASE/threads
    then
        AC_MSG_RESULT(none)
        use_threads=false
    fi

    if $use_threads
    then
        AC_MSG_RESULT(mit-threads/unproven-threads)
        pkg="$LOCALBASE/threads"
        lib1="-L$pkg/lib -Wl,-R$pkg/lib"
        lib2="-lthread -lm -lgcc -lthread"
        LIBS="$lib1 $lib2 $LIBS"
        CPPFLAGS="$CPPFLAGS -I$pkg/include"
        STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
    fi
fi

;;
*)
    AC_CHECK_LIB(pthread, pthread_create,,
    AC_CHECK_LIB(pthread, __pthread_create,,
    AC_CHECK_LIB(pthread, __pthread_create_system,,
    AC_CHECK_LIB(c_r, pthread_create,,
    AC_CHECK_LIB(c, pthread_create,,
    use_threads=false))))
;;
esac
fi

if $use_threads
then
    #
    # We'd like to use sigwait() too
    #
    AC_CHECK_LIB(c, sigwait,
        AC_DEFINE(HAVE_SIGWAIT),
        AC_CHECK_LIB(pthread, sigwait,

```

```

    AC_DEFINE(HAVE_SIGWAIT),
    AC_CHECK_LIB(pthread, _Psigwait,
        AC_DEFINE(HAVE_SIGWAIT),))
)

AC_CHECK_FUNC(pthread_attr_getstacksize,
    AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)

#
# Additional OS-specific issues related to pthreads and sigwait.
#
case "$host" in
#
# One more place to look for sigwait.
#
*-freebsd*)
    AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
    ;;
#
# BSDI 3.0 through 4.0.1 needs pthread_init() to be
# called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
*-bsdi3.*|*-bsdi4.0*)
    AC_DEFINE(NEED_PTHREAD_INIT)
    ;;
#
# LinuxThreads requires some changes to the way we
# deal with signals.
#
*-linux*)
    AC_DEFINE(HAVE_LINUXTHREADS)
    ;;
#
# Ensure the right sigwait() semantics on Solaris and make
# sure we call pthread_setconcurrency.
#
*-solaris*)
    AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
    AC_CHECK_FUNC(pthread_setconcurrency,
        AC_DEFINE(CALL_PTHREAD_SETCONCURRENCY))
    AC_DEFINE(POSIX_GETPWUID_R)
    AC_DEFINE(POSIX_GETPWNAM_R)
    AC_DEFINE(POSIX_GETGRGID_R)
    AC_DEFINE(POSIX_GETGRNAM_R)
    ;;
*hpux11*)
    AC_DEFINE(_PTHREADS_DRAFT4)

```

```

;;
#
# UnixWare does things its own way.
#
*-UnixWare*)
    AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)
;;
esac

#
# Look for sysconf to allow detection of the number of processors.
#
AC_CHECK_FUNC(sysconf, AC_DEFINE(HAVE_SYSCONF),)

if test "X$GCC" = "Xyes"; then
    case "$host" in
        *-freebsd*)
            CC="$CC -pthread"
            CCOPT="$CCOPT -pthread"
            STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
            ;;
        *-openbsd*)
            CC="$CC -pthread"
            CCOPT="$CCOPT -pthread"
            ;;
        *-solaris*)
            LIBS="$LIBS -lthread"
            ;;
        *-ibm-aix*)
            STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
            ;;
    esac
else
    case $host in
        *-dec-osf*)
            CC="$CC -pthread"
            CCOPT="$CCOPT -pthread"
            ;;
        *-solaris*)
            CC="$CC -mt"
            CCOPT="$CCOPT -mt"
            ;;
        *-ibm-aix*)
            STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
            ;;
        *-UnixWare*)
            CC="$CC -Kthread"
            CCOPT="$CCOPT -Kthread"

```

```

;;
esac
fi
ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT_IRS_THREADSGR_OBJS="\${WANT_IRS_THREADSGR_OBJS}"
WANT_IRS_THREADSPW_OBJS="\${WANT_IRS_THREADSPW_OBJS}"
WANT_IRS_THREADS_OBJS="\${WANT_IRS_THREADS_OBJS}"
thread_dir=pthreads
else
ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT_IRS_THREADSGR_OBJS=""
WANT_IRS_THREADSPW_OBJS=""
WANT_IRS_THREADS_OBJS=""
thread_dir=nothreads
fi

AC_CHECK_FUNC(strlcat, AC_DEFINE(HAVE_STRLCAT))

AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(DO_PTHREADS)
AC_SUBST(WANT_IRS_THREADSGR_OBJS)
AC_SUBST(WANT_IRS_THREADSPW_OBJS)
AC_SUBST(WANT_IRS_THREADS_OBJS)

AC_CHECK_FUNC(if_nametoindex,
[USE_IFNAMESLINKID="#define USE_IFNAMESLINKID 1"],
[USE_IFNAMESLINKID="#undef USE_IFNAMESLINKID"])
AC_SUBST(USE_IFNAMESLINKID)

ISC_THREAD_DIR=$thread_dir
AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon,
[DAEMON_OBJS="" NEED_DAEMON="#undef NEED_DAEMON"]
,
[DAEMON_OBJS="\${DAEMON_OBJS}" NEED_DAEMON="#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJS)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep,
[STRSEP_OBJS="" NEED_STRSEP="#undef NEED_STRSEP"]
,
[STRSEP_OBJS="\${STRSEP_OBJS}" NEED_STRSEP="#define NEED_STRSEP 1"]
)
AC_SUBST(STRSEP_OBJS)

```

AC_SUBST(NEED_STRSEP)

AC_CHECK_FUNC(strerror, [NEED_STRERROR="#undef NEED_STRERROR"],
[NEED_STRERROR="#define NEED_STRERROR 1"])
AC_SUBST(NEED_STRERROR)

flockfile is usually provided by pthreads, but we may want to use it
even if compiled with --disable-threads.

AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)

Indicate what the final decision was regarding threads.

AC_MSG_CHECKING(whether to build with threads)
if \$use_threads; then
 AC_MSG_RESULT(yes)
else
 AC_MSG_RESULT(no)
fi

End of pthreads stuff.
#

Additional compiler settings.

MKDEPCC="\$CC"
MKDEPCFLAGS="-M"
IRIX_DNSSEC_WARNINGS_HACK=""

if test "X\$GCC" = "Xyes"; then
 STD_CWARNINGS="\$STD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
else
 case \$host in
 -dec-osf)
 CC="\$CC -std"
 CCOPT="\$CCOPT -std"
 MKDEPCC="\$CC"
 ;;
 -hp-hpux)
 CC="\$CC -Ae -z"
 # The version of the C compiler that constantly warns about
 # 'const' as well as alignment issues is unfortunately not
 # able to be discerned via the version of the operating
 # system, nor does cc have a version flag.

```

case "`$CC +W 123 2>&1`" in
*Unknown?option*)
STD_CWARNINGS="+w1"
;;
*)
# Turn off the pointlessly noisy warnings.
STD_CWARNINGS="+w1 +W 474,530"
;;
esac
CCOPT="$CCOPT -Ae -z"
LIBS="-Wl,+vnocompatwarnings $LIBS"
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>&1 | awk """"BEGIN {colon=0; rec="";} { for (i = 0 ; i < NF; i++)
{ if (colon && a[$i]) continue; if ($i == "\\") continue; if (!colon) { rec = $i continue; } if ($i == ":") { rec = rec " : "
colon = 1 continue; } if (length(rec $i) > 76) { print rec " \\"; rec = "\t" $i; a[$i] = 1; } else { rec = rec " " $i a[$i] = 1;
} } } END {print rec}"""" >>$TMP'
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>>$TMP'
;;
*-sgi-irix*)
STD_CWARNINGS="-fullwarn -woff 1209"
#
# Silence more than 250 instances of
# "prototyped function redeclared without prototype"
# and 11 instances of
# "variable ... was set but never used"
# from lib/dns/sec/openssl.
#
IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"
;;
*-solaris*)
MKDEPCFLAGS="-xM"
;;
*-UnixWare*)
CC="$CC -w"
;;
esac
fi

#
# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
#
case $host in
*linux*)
STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"
;;
esac

AC_SUBST(MKDEPCC)

```

```

AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

#
# NLS
#
AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS),)

#
# -lxnet buys us one big porting headache... standards, gotta love 'em.
#
# AC_CHECK_LIB(xnet, socket, ,
#  AC_CHECK_LIB(socket, socket)
#  AC_CHECK_LIB(nsl, inet_ntoa)
# )
#
# Use this for now, instead:
#
case "$host" in
mips-sgi-irix*)
;;
*)
AC_CHECK_LIB(d4r, gethostbyname_r)
AC_CHECK_LIB(socket, socket)
AC_CHECK_LIB(nsl, inet_ntoa)
;;
esac

#
# Purify support
#
AC_MSG_CHECKING(whether to use purify)
AC_ARG_WITH(purify,
[ --with-purify[=PATH] use Rational purify],
use_purify="$withval", use_purify="no")

case "$use_purify" in
no)
;;
yes)
AC_PATH_PROG(purify_path, purify, purify)
;;
*)
purify_path="$use_purify"
;;
esac

```



```

case "$use_purify" in
no)
AC_MSG_RESULT(no)
PURIFY=""
;;
*)
if test -f $purify_path || test $purify_path = purify; then
AC_MSG_RESULT($purify_path)
PURIFYFLAGS=""echo $PURIFYOPTIONS`"
PURIFY="$purify_path $PURIFYFLAGS"
else
AC_MSG_ERROR([$purify_path not found.

```

Please choose the proper path with the following command:

```

configure --with-purify=PATH
])
fi
;;
esac

```

```

AC_SUBST(PURIFY)

```

```

#
# GNU libtool support
#
AC_ARG_WITH(libtool,
[ --with-libtool use GNU libtool (following indented options supported)],
use_libtool="$withval", use_libtool="no")

```

```

case $use_libtool in
yes)
AM_PROG_LIBTOOL
O=lo
A=la
LIBTOOL_MKDEP_SED='s;\.o;\.lo;'
LIBTOOL_MODE_COMPILE='--mode=compile'
LIBTOOL_MODE_INSTALL='--mode=install'
LIBTOOL_MODE_LINK='--mode=link'
;;
*)
O=o
A=a
LIBTOOL=
AC_SUBST(LIBTOOL)
LIBTOOL_MKDEP_SED=
LIBTOOL_MODE_COMPILE=
LIBTOOL_MODE_INSTALL=

```

```

LIBTOOL_MODE_LINK=
;;
esac

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

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

#
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#

#
# IPv6
#
AC_ARG_ENABLE(ipv6,
[ --enable-ipv6 use IPv6 [default=autodetect]])

case "$enable_ipv6" in
yes|"autodetect")
AC_DEFINE(WANT_IPV6)
;;
no)
;;
esac

#
# We do the IPv6 compilation checking after libtool so that we can put
# the right suffix on the files.
#
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>],
[struct sockaddr_in6 sin6; return (0);],
[AC_MSG_RESULT(yes)

```

```

found_ipv6=yes],
[AC_MSG_RESULT(no)
found_ipv6=no])

#
# See whether IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)
AC_ARG_WITH(kame,
[ --with-kame[=PATH] use Kame IPv6 [default path /usr/local/v6]],
use_kame="$withval", use_kame="no")

case "$use_kame" in
no)
;;
yes)
kame_path=/usr/local/v6
;;
*)
kame_path="$use_kame"
;;
esac

case "$use_kame" in
no)
AC_MSG_RESULT(no)
;;
*)
if test -f $kame_path/lib/libinet6.a; then
AC_MSG_RESULT($kame_path/lib/libinet6.a)
LIBS="-L$kame_path/lib -linet6 $LIBS"
else
AC_MSG_ERROR([$kame_path/lib/libinet6.a not found.

Please choose the proper path with the following command:

    configure --with-kame=PATH
])
fi
;;
esac

#
# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.
# Including it on Kame-using platforms is very bad, though, because
# Kame uses #error against direct inclusion. So include it on only
# the platform that is otherwise broken without it -- BSD/OS 4.0 through 4.1.

```

```

# This is done before the in6_pktinfo check because that's what
# netinet6/in6.h is needed for.
#
changequote({, })
case "$host" in
*-bsdi4.[01]*)
ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"
isc_netinet6in6_hack="#include <netinet6/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
isc_netinet6in6_hack=""
;;
esac
changequote([, ])

#
# This is similar to the netinet6/in6.h issue.
#
case "$host" in
*-UnixWare*)
ISC_PLATFORM_NEEDNETINETIN6H="#define ISC_PLATFORM_NEEDNETINETIN6H 1"
ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
isc_netinetin6_hack="#include <netinet/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINETIN6H="#undef ISC_PLATFORM_NEEDNETINETIN6H"
ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
isc_netinetin6_hack=""
;;
esac

#
# Now delve deeper into the suitability of the IPv6 support.
#
case "$found_ipv6" in
yes)
HAS_INET6_STRUCTS="#define HAS_INET6_STRUCTS 1"

AC_MSG_CHECKING(for in6_addr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_addr in6; return (0);],

```

```

[AC_MSG_RESULT(yes)
HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
isc_in_addr6_hack=""],
[AC_MSG_RESULT(no)
HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
isc_in_addr6_hack="#define in6_addr in_addr6""])

AC_MSG_CHECKING(for in6addr_any)
AC_TRY_LINK([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
$isc_in_addr6_hack
],
[struct in6_addr in6; in6 = in6addr_any; return (0);],
[AC_MSG_RESULT(yes)
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"],
[AC_MSG_RESULT(no)
NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1""])

AC_MSG_CHECKING(for sin6_scope_id in struct sockaddr_in6)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_in6 xyzy; xyzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
result="#define HAVE_SIN6_SCOPE_ID 1"],
[AC_MSG_RESULT(no)
result="#undef HAVE_SIN6_SCOPE_ID"])
HAVE_SIN6_SCOPE_ID="$result"

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_pktinfo xyzy; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"],

```

```

[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO" ])

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinet6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_storage xyzzy; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SOCKADDR_STORAGE="#define HAVE_SOCKADDR_STORAGE 1"],
[AC_MSG_RESULT(no)
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"])
;;
no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"
;;
esac

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINETIN6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_IN_ADDR6)
AC_SUBST(NEED_IN6ADDR_ANY)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)
AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs to come after checking for a Kame add-on,

```

```

# which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_ntop(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_ntop.c"
ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"])
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_pton(0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON 1"])
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[struct in_addr in; inet_aton(0, &in); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1"])

AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)

#
# Look for a 4.4BSD-style sa_len member in struct sockaddr.

```

```

#
case "$host" in
*-dec-osf*)
    # Turn on 4.4BSD style sa_len support.
    AC_DEFINE(_SOCKADDR_LEN)
    ;;
esac

AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct sockaddr sa; sa.sa_len = 0; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)

# HAVE_MINIMUM_IFREQ

case "$host" in
*-bsdi[2345]*) have_minimum_ifreq=yes;;
*-darwin*) have_minimum_ifreq=yes;;
*-freebsd*) have_minimum_ifreq=yes;;
*-lynxos*) have_minimum_ifreq=yes;;
*-netbsd*) have_minimum_ifreq=yes;;
*-next*) have_minimum_ifreq=yes;;
*-openbsd*) have_minimum_ifreq=yes;;
*-rhapsody*) have_minimum_ifreq=yes;;
esac

case "$have_minimum_ifreq" in
yes)
    HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;
no)
    HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
*)
    HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
esac
AC_SUBST(HAVE_MINIMUM_IFREQ)

# PORT_DIR
PORT_DIR=port/unknown
SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"
case "$host" in

```



```

*aix3.2*) PORT_DIR="port/aix32";;
*aix4*) PORT_DIR="port/aix4";;
*aux3*) PORT_DIR="port/aux3";;
*-bsdi2*) PORT_DIR="port/bsdos2";;
*-bsdi*) PORT_DIR="port/bsdos";;
*-cygwin*) PORT_DIR="port/cygwin";;
*-darwin*) PORT_DIR="port/darwin";;
*-osf*) PORT_DIR="port/decunix";;
*-freebsd*) PORT_DIR="port/freebsd";;
*-hpux9*) PORT_DIR="port/hpux9";;
*-hpux10*) PORT_DIR="port/hpux10";;
*-hpux11*) PORT_DIR="port/hpux";;
*-irix*) PORT_DIR="port/irix";;
*-linux*) PORT_DIR="port/linux";;
*-lynxos*) PORT_DIR="port/lynxos";;
*-mpe*) PORT_DIR="port/mpe";;
*-netbsd*) PORT_DIR="port/netbsd";;
*-next*) PORT_DIR="port/next";;
*-openbsd*) PORT_DIR="port/openbsd";;
*-qnx*) PORT_DIR="port/qnx";;
*-rhapsody*) PORT_DIR="port/rhapsody";;
*-solaris2.[[01234]]*)
    BSD_COMP="#define BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
    PORT_DIR="port/solaris";;
*-solaris2.5*)
    BSD_COMP="#define BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    PORT_DIR="port/solaris";;
*-solaris2*) BSD_COMP="#define BSD_COMP 1"
    PORT_DIR="port/solaris";;
*-ultrix*) PORT_DIR="port/ultrix";;
*-sco-sysv*uw2.0*) PORT_DIR="port/unixware20";;
*-sco-sysv*uw2.1.2*) PORT_DIR="port/unixware212";;
*-sco-sysv*uw7*) PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

#
# Look for a 4.4BSD or 4.3BSD struct msghdr
#

```

```

AC_MSG_CHECKING(for struct msghdr flavor)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct msghdr msg; msg.msg_flags = 0; return (0);],
[AC_MSG_RESULT(4.4BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"],
[AC_MSG_RESULT(4.3BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"])
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

```

```

#
# Look for in_port_t.
#
AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <netinet/in.h>],
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
[AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDPORTT="#define ISC_PLATFORM_NEEDPORTT 1"])
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

```

```

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE([
#include <netdb.h>],
[struct addrinfo a; return (0);],
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO)],
[AC_MSG_RESULT(no)])

```

```

AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = sethostent(0); return(0);],
[AC_MSG_RESULT(yes)],
[AC_MSG_RESULT(no)])

```

```

AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endhostent(); return(0);],
[AC_MSG_RESULT(yes)

```

```

ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"])
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)

AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = setnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"])
AC_SUBST(ISC_LWRES_SETNETENTINT)

AC_MSG_CHECKING(for int endnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"])
AC_SUBST(ISC_LWRES_ENDNETENTINT)

AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE([
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);],
[return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"])
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE([
#include <netdb.h>],
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO"],
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"])
AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,
[ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"],

```

```

[ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"])
AC_CHECK_FUNC(getnameinfo,
    [ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"],
    [ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"])
AC_CHECK_FUNC(getaddrinfo,
    [ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"
AC_DEFINE(HAVE_GETADDRINFO)],
    [ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
    [NEED_PSELECT="#undef NEED_PSELECT"],
    [NEED_PSELECT="#define NEED_PSELECT"])
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
    [NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
    [NEED_GETTIMEOFDAY="#define NEED_GETTIMEOFDAY 1"])
AC_SUBST(NEED_GETTIMEOFDAY)
AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
    [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [
#include <sys/param.h>
#include <sys/sysctl.h>
#include <sys/socket.h>
#ifdef NET_RT_IFLIST
found_rt_iflist
#endif
],
    [AC_MSG_RESULT(yes)
    AC_DEFINE(HAVE_IFLIST_SYSCTL)],
    [AC_MSG_RESULT(no)])

#
# Check for some other useful functions that are not ever-present.
#
AC_CHECK_FUNC(strsep,
    [ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],
    [ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,

```

```

[ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
[ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS print.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS print.c"
ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1")
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)

AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
[USE_SYSEERROR_LIST="#undef USE_SYSEERROR_LIST"],
[USE_SYSEERROR_LIST="#define USE_SYSEERROR_LIST 1"])
AC_SUBST(USE_SYSEERROR_LIST)

#
# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(l)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "l"'],
[AC_MSG_RESULT(ll)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "ll"'],
[AC_MSG_RESULT(default ll)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "ll"'])
AC_SUBST(ISC_PLATFORM_QUADFORMAT)

#
# Security Stuff
#
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))

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

```

```

AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned int *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned int"
AC_MSG_RESULT(unsigned int)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned long *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned long"
AC_MSG_RESULT(unsigned long)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, long *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long)]
,
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T int"
AC_MSG_RESULT(int)
))))
AC_SUBST(ISC_SOCKLEN_T)

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

```

```
AC_CHECK_FUNC(setgroupent,,AC_DEFINE(NEED_SETGROUPEMENT))
```

```
AC_CHECK_FUNC(getnetbyaddr_r,
```

```
AC_TRY_COMPILE(
```

```
[
```

```
#undef _REENTRANT
```

```
#define _REENTRANT
```

```
#define _OSF_SOURCE
```

```
#undef __USE_MISC
```

```
#define __USE_MISC
```

```
#include <netdb.h>
```

```
struct netent *
```

```
getnetbyaddr_r(long net, int type, struct netent *result, char *buffer,  
int buflen) { }
```

```
],
```

```
[return (0)],
```

```
[
```

```
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
```

```
NET_R_BAD="#define NET_R_BAD NULL"
```

```
NET_R_COPY="#define NET_R_COPY buf, buflen"
```

```
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
```

```
NET_R_OK="#define NET_R_OK nptr"
```

```
NET_R_SETANSWER="#undef NET_R_SETANSWER"
```

```
NET_R_RETURN="#define NET_R_RETURN struct netent *"
```

```
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
```

```
NETENT_DATA="#undef NETENT_DATA"
```

```
],
```

```
AC_TRY_COMPILE(
```

```
[
```

```
#undef _REENTRANT
```

```
#define _REENTRANT
```

```
#define _OSF_SOURCE
```

```
#undef __USE_MISC
```

```
#define __USE_MISC
```

```
#include <netdb.h>
```

```
int getnetbyaddr_r (unsigned long int, int, struct netent *,  
char *, size_t, struct netent **, int *);
```

```
],
```

```
[return (0)],
```

```
[
```

```
NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errnop"
```

```
NET_R_BAD="#define NET_R_BAD ERANGE"
```

```
NET_R_COPY="#define NET_R_COPY buf, buflen"
```

```
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS char *buf, size_t buflen"
```

```
NET_R_OK="#define NET_R_OK 0"
```

```
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
```

```
NET_R_RETURN="#define NET_R_RETURN int"
```

```

GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"
],
AC_TRY_COMPILE(
#undef __USE_MISC
#define __USE_MISC
[#include <netdb.h>
int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
],
)
)
)
)
)
,

```



```

NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
)
case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void setnetent_r (int);
], [return (0);], [
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
],
AC_TRY_COMPILE(
[
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int setnetent_r(int, struct netent_data *);
], [return (0);], [
NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
],
)

```

```

)
,
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
)
AC_SUBST(NET_R_ENT_ARGS)
AC_SUBST(NET_R_SET_RESULT)
AC_SUBST(NET_R_SET_RETURN)

AC_CHECK_FUNC(endnetent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endnetent_r (void);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) return (x)"
NET_R_END_RETURN="#define NET_R_END_RETURN int"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
)

```

```

)
)
,
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
)
AC_SUBST(NET_R_END_RESULT)
AC_SUBST(NET_R_END_RETURN)

AC_CHECK_FUNC(getgrnam_r,,AC_DEFINE(NEED_GETGRNAM_R))
AC_CHECK_FUNC(getgrgid_r,,AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrent_r,
AC_TRY_COMPILE(
[
#include <grp.h>
struct group *getgrent_r(struct group *grp, char *buffer,
    int buflen) { }
] ,[return (0);],[
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
],
)
,
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
AC_DEFINE(NEED_GETGRENT_R)
)
AC_SUBST(GROUP_R_ARGS)
AC_SUBST(GROUP_R_BAD)
AC_SUBST(GROUP_R_OK)
AC_SUBST(GROUP_R_RETURN)

AC_CHECK_FUNC(endgrent_r,
,
GROUP_R_END_RESULT="#define GROUP_R_END_RESULT(x) /*empty*/"
GROUP_R_END_RETURN="#define GROUP_R_END_RETURN void"
GROUP_R_ENT_ARGS="#define GROUP_R_ENT_ARGS void"
AC_DEFINE(NEED_ENDGRENT_R)
)
AC_SUBST(GROUP_R_END_RESULT)
AC_SUBST(GROUP_R_END_RETURN)
AC_SUBST(GROUP_R_ENT_ARGS)

```

```

AC_CHECK_FUNC(setgrent_r,
,
GROUP_R_SET_RESULT="#undef GROUP_R_SET_RESULT /*empty*/"
GROUP_R_SET_RETURN="#define GROUP_R_SET_RETURN void"
AC_DEFINE(NEED_SETGRENT_R)
)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)


AC_CHECK_FUNC(gethostbyname_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct hostent *gethostbyname_r
(const char *name, struct hostent *hp, char *buf, int len, int *h_errnop) { }
],
[return (0);],
[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int gethostbyname_r(const char *name,
                    struct hostent *result,
                    struct hostent_data *hdptr);
],,
HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
HOST_R_BAD="#define HOST_R_BAD (-1)"
HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"

```

```

HOSTENT_DATA="#define HOSTENT_DATA 1"
],
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int gethostbyname_r (const char *,
                           struct hostent *,
                           char *, size_t,
                           struct hostent **,
                           int *);

], [
HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"
],
)))
,
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
)
AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT

```

```

#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int endhostent_r(struct hostent_data *buffer);
], ,
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(struct hostent_data *ht_data);
],[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(void);
],[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
],
)
)
)
,
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
)
AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT

```

```

#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void sethostent_r(int flag, struct hostent_data *ht_data);[],
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT /*empty*/"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int sethostent_r(int flag, struct hostent_data *ht_data);[],
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      sethostent_r (int);[],
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
)
)
)
,
HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"
)
AC_SUBST(HOST_R_SET_RESULT)
AC_SUBST(HOST_R_SET_RETURN)

```

```

AC_MSG_CHECKING(struct passwd element pw_class)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
],[struct passwd *pw; pw->pw_class = "";],
AC_MSG_RESULT(yes)
AC_DEFINE(HAS_PW_CLASS)
,
AC_MSG_RESULT(no)
)

```

```

AC_TRY_COMPILE([

```

```

#include <sys/types.h>
#include <pwd.h>
void
setpwent(void) { }
],
[return (0);],
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)

AC_TRY_COMPILE([
#include <sys/types.h>
#include <grp.h>
void
setgrent(void) { }
],
[return (0);],
SETGRENT_VOID="#define SETGRENT_VOID 1"
,
SETGRENT_VOID="#undef SETGRENT_VOID"
)
AC_SUBST(SETGRENT_VOID)

AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, int l) { }
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC

```



```

#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) { }
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetgrent_r( char **, char **, char **, void **);
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS void **buf"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
NGR_R_PRIVATE="#define NGR_R_PRIVATE 1"
]
,
)
)
)
,
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
)
AC_SUBST(NGR_R_ARGS)
AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)

```

```

AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(endnetgrent_r,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) return (x)"
NGR_R_END_RETURN="#define NGR_R_END_RETURN int"
NGR_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"
,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"
NGR_R_END_RETURN="#define NGR_R_END_RETURN void"
NGR_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGRENT_R)
)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)

AC_CHECK_FUNC(setnetgrent_r,
[
case "$host" in
*bsdi*)
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
;;
*)
NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
;;
esac
]
,
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
)
AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(innetgr_r,,AC_DEFINE(NEED_INNETGR_R))

AC_CHECK_FUNC(getprotoent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct protoent *getprotoent_r(struct protoent *result,
char *buffer, int buflen) { }

```

```

]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);

]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
PROTO_R_OK="#define PROTO_R_OK 0"
PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="#define PROTO_R_RETURN int"
]
,
)
,
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
)
AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)

```

```

AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)

AC_CHECK_FUNC(endprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endprotoent_r(void);
]
,
[
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS"
]
,
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/"
)
AC_SUBST(PROTO_R_END_RESULT)
AC_SUBST(PROTO_R_END_RETURN)
AC_SUBST(PROTO_R_ENT_ARGS)

AC_CHECK_FUNC(setprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void          setprotoent_r __P((int));
],[],
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
,
)
,

```

```

PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
)
AC_SUBST(PROTO_R_SET_RESULT)
AC_SUBST(PROTO_R_SET_RETURN)

AC_CHECK_FUNC(getpwent_r,
AC_TRY_COMPILE(
[
#include <sys/types.h>
#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) { }
]
,
[]
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
,
)
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
AC_DEFINE(NEED_GETPWENT_R)
)
AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)

AC_CHECK_FUNC(endpwent_r,
AC_TRY_COMPILE(
[
#include <pwd.h>
void endpwent_r(FILE **pwfp);
], ,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"

```

```

PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
,
)
,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#undef PASS_R_ENT_ARGS"
AC_DEFINE(NEED_ENDPWENT_R)
)
AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r,,AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))

AC_CHECK_FUNC(setpwent_r,
AC_TRY_COMPILE([
#include <pwd.h>
void setpwent_r(FILE **pwfp);
], ,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
AC_TRY_COMPILE([
#include <pwd.h>
int setpwent_r(FILE **pwfp);
], ,
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
)
)
,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /*empty*/"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"
AC_DEFINE(NEED_SETPWENT_R)
)
AC_SUBST(PASS_R_SET_RESULT)
AC_SUBST(PASS_R_SET_RETURN)

AC_CHECK_FUNC(getpwnam_r,,AC_DEFINE(NEED_GETPWNAM_R))
AC_CHECK_FUNC(getpwuid_r,,AC_DEFINE(NEED_GETPWUID_R))

AC_CHECK_FUNC(getservent_r,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC

```

```

#include <netdb.h>
struct servent *
getservent_r(struct servent *result, char *buffer, int buflen) { }
],[return (0);],
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK spttr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getservent_r (struct servent *, char *, size_t, struct servent **);
],[return (0);],
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
SERV_R_BAD="#define SERV_R_BAD ERANGE"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS char *buf, size_t buflen"
SERV_R_OK="#define SERV_R_OK (0)"
SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
SERV_R_RETURN="#define SERV_R_RETURN int"
]
,
)
,
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK spttr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)

```

AC_SUBST(SERV_R_RETURN)

```
AC_CHECK_FUNC(endservent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endservent_r(void);
]
,
,
[
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
]
,
)
,
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
)
AC_SUBST(SERV_R_END_RESULT)
AC_SUBST(SERV_R_END_RETURN)
AC_SUBST(SERV_R_ENT_ARGS)
```

```
AC_CHECK_FUNC(setservent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      setservent_r(int);
]
,
,
[
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
]
,
)
,
```



```

SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
)
AC_SUBST(SERV_R_SET_RESULT)
AC_SUBST(SERV_R_SET_RETURN)

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int inetgr(const char *netgroup, const char *host, const char *user, const char *domain);
]
,,
[
INETGR_ARGS="#undef INNETGR_ARGS"
]
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int inetgr(char *netgroup, char *host, char *user, char *domain);
]
,,
[
INETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"
]
,
))

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(const char *);
]

```

```

”
[
SETNETGRENT_ARGS="#undef SETNETGRENT_ARGS"
]
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(char *);
]
”
[
SETNETGRENT_ARGS="#define SETNETGRENT_ARGS char *netgroup"
]
,
))
AC_SUBST(SETNETGRENT_ARGS)
AC_SUBST(INNETGR_ARGS)

#
# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?
#
AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
*-bsdi3.1*)
hack_shutup_sputaux=yes
;;
*-bsdi4.0*)
hack_shutup_sigwait=yes
hack_shutup_sputaux=yes
hack_shutup_in6addr_init_macros=yes
;;
*-bsdi4.1*)
hack_shutup_stdargcast=yes
;;
*-solaris2.8)
hack_shutup_pthreadonceinit=yes
hack_shutup_in6addr_init_macros=yes
;;

```

esac

case "\$hack_shutup_pthreadonceinit" in

yes)

#

Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.

#

ISC_PLATFORM_BRACEPTHREADONCEINIT="#define ISC_PLATFORM_BRACEPTHREADONCEINIT 1"

::

esac

case "\$hack_shutup_sigwait" in

yes)

#

Shut up a -Wmissing-prototypes warning for sigwait().

#

AC_DEFINE(SHUTUP_SIGWAIT)

::

esac

case "\$hack_shutup_sputaux" in

yes)

#

Shut up a -Wmissing-prototypes warning from <stdio.h>.

#

AC_DEFINE(SHUTUP_SPUTAUX)

::

esac

case "\$hack_shutup_stdargcast" in

yes)

#

Shut up a -Wcast-qual warning from va_start().

#

AC_DEFINE(SHUTUP_STDARG_CAST)

::

esac

case "\$hack_shutup_in6addr_init_macros" in

yes)

AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)

::

esac

#

Substitutions

#

AC_SUBST(BIND9_TOP_BUILDDIR)

BIND9_TOP_BUILDDIR=`pwd`

AC_SUBST_FILE(BIND9_INCLUDES)

BIND9_INCLUDES=\$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)

BIND9_MAKE_RULES=\$BIND9_TOP_BUILDDIR/make/rules

. \$srcdir/../../version

BIND9_VERSION="VERSION=\${MAJORVER}.\${MINORVER}.\${PATCHVER}\${RELEASETYPE}\${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:

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

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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

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

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

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

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/ds_43.c

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/dst_openssl.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/ds_43.h

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/win32os.c

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/apl_42.h

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/apl_42.c

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/win32os.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/win32/lwconfig.c

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-->

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

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_getaddrinfo</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres_getaddrinfo</refname>

<refname>lwres_freeaddrinfo</refname>

<refpurpose>socket address structure to host and service name</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

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

<funcprototype>

<funcdef>

int

<function>lwres_getaddrinfo</function></funcdef>

<paramdef>const char *hostname</paramdef>

<paramdef>const char *servname</paramdef>

<paramdef>const struct addrinfo *hints</paramdef>

<paramdef>struct addrinfo **res</paramdef>

</funcprototype>

<funcprototype>

```

<funcdef>
void
<function>lwres_freeaddrinfo</function></funcdef>
<paramdef>struct addrinfo *ai</paramdef>
</funcprototype>
</funcsynopsis>

```

<para>
 If the operating system does not provide a
 <type>struct addrinfo</type>,
 the following structure is used:

```

<programlisting>
struct addrinfo {
    int      ai_flags;      /* AI_PASSIVE, AI_CANONNAME */
    int      ai_family;    /* PF_XXX */
    int      ai_socktype;   /* SOCK_XXX */
    int      ai_protocol;   /* 0 or IPPROTO_XXX for IPv4 and IPv6 */
    size_t    ai_addrlen;   /* length of ai_addr */
    char      *ai_canonname; /* canonical name for hostname */
    struct sockaddr *ai_addr; /* binary address */
    struct addrinfo *ai_next; /* next structure in linked list */
};
</programlisting>
</para>

```

</refsynopsisdiv>

<refsect1>
 <title>DESCRIPTION</title>
 <para>
 <function>lwres_getaddrinfo</function>
 is used to get a list of IP addresses and port numbers for host
 <parameter>hostname</parameter>
 and service
 <parameter>servname</parameter>.

The function is the lightweight resolver's implementation of
 <function>getaddrinfo</function>
 as defined in RFC2133.
 <parameter>hostname</parameter>
 and
 <parameter>servname</parameter>
 are pointers to null-terminated
 strings or
 <type>NULL</type>.

<parameter>hostname</parameter>

is either a host name or a numeric host address string: a dotted decimal IPv4 address or an IPv6 address.

<parameter>servname</parameter>

is either a decimal port number or a service name as listed in

<filename>/etc/services</filename>.

</para>

<para>

<parameter>hints</parameter>

is an optional pointer to a

<type>struct addrinfo</type>.

This structure can be used to provide hints concerning the type of socket that the caller supports or wishes to use.

The caller can supply the following structure elements in

<parameter>*hints</parameter>:

<variablelist>

<varlistentry><term><constant>ai_family</constant></term>

<listitem>

<para>The protocol family that should be used.

When

<constant>ai_family</constant>

is set to

<type>PF_UNSPEC</type>,

it means the caller will accept any protocol family supported by the operating system.

</para></listitem></varlistentry>

<varlistentry><term><constant>ai_socktype</constant></term>

<listitem>

<para>

denotes the type of socket —

<type>SOCK_STREAM</type>,

<type>SOCK_DGRAM</type>

or

<type>SOCK_RAW</type>

— that is wanted.

When

<constant>ai_socktype</constant>

is zero the caller will accept any socket type.

</para>

</listitem>

</varlistentry>

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

<listitem>

<para>

indicates which transport protocol is wanted: IPPROTO_UDP or IPPROTO_TCP.

If

<constant>ai_protocol</constant>

is zero the caller will accept any protocol.

</para>

</listitem>

</varlistentry>

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

<listitem>

<para>

Flag bits.

If the

<type>AI_CANONNAME</type>

bit is set, a successful call to

<function>lwres_getaddrinfo(</function>

will return a null-terminated string containing the canonical name

of the specified hostname in

<constant>ai_canonname</constant>

of the first

<type>addrinfo</type>

structure returned.

Setting the

<type>AI_PASSIVE</type>

bit indicates that the returned socket address structure is intended

for used in a call to

<citerefentry>

<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>

</citerefentry>.

In this case, if the hostname argument is a

<type>NULL</type>

pointer, then the IP address portion of the socket

address structure will be set to

<type>INADDR_ANY</type>

for an IPv4 address or

<type>IN6ADDR_ANY_INIT</type>

for an IPv6 address.

</para>

<para>

When

<constant>ai_flags</constant>

does not set the

<type>AI_PASSIVE</type>

bit, the returned socket address structure will be ready

for use in a call to

<citerefentry>

<refentrytitle>connect</refentrytitle><manvolnum>2

</manvolnum>

</citerefentry>

for a connection-oriented protocol or

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

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

or

<citrefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2
</manvolnum>
</citrefentry>

if a connectionless protocol was chosen.

The IP address portion of the socket address structure will be
set to the loopback address if

<parameter>hostname</parameter>

is a

<type>NULL</type>

pointer and

<type>AI_PASSIVE</type>

is not set in

<constant>ai_flags</constant>.

</para>

<para>

If

<constant>ai_flags</constant>

is set to

<type>AI_NUMERICHOST</type>

it indicates that

<parameter>hostname</parameter>

should be treated as a numeric string defining an IPv4 or IPv6 address
and no name resolution should be attempted.

</para>

</listitem>

</varlistentry>

</variablelist>

</para>

<para>

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

</para>

<para>

A <parameter>hints</parameter> of <type>NULL</type> is treated as if
the caller provided a <type>struct addrinfo</type> initialized to zero
with <constant>ai_family</constant> set to

<constant>PF_UNSPEC</constant>.

</para>

<para>

After a successful call to

<function>lwres_getaddrinfo()</function>,

<parameter>*res</parameter>

is a pointer to a linked list of one or more

<type>addrinfo</type>

structures.

Each

<type>struct addrinfo</type>

in this list can be processed by following

the

<constant>ai_next</constant>

pointer, until a

<type>NULL</type>

pointer is encountered.

The three members

<constant>ai_family</constant>,

<constant>ai_socktype</constant>,

and

<constant>ai_protocol</constant>

in each

returned

<type>addrinfo</type>

structure contain the corresponding arguments for a call to

<citerefentry>

<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>

</citerefentry>.

For each

<type>addrinfo</type>

structure in the list, the

<constant>ai_addr</constant>

member points to a filled-in socket address structure of length

<constant>ai_addrlen</constant>.

</para>

<para>

All of the information returned by

<function>lwres_getaddrinfo()</function>

is dynamically allocated: the addrinfo structures, and the socket

address structures and canonical host name strings pointed to by the

<constant>addrinfo</constant> structures.

Memory allocated for the dynamically allocated structures created by

a successful call to

<function>lwres_getaddrinfo()</function>

is released by

<function>lwres_freeaddrinfo()</function>.
<parameter>ai</parameter>
is a pointer to a
<type>struct addrinfo</type>
created by a call to
<function>lwres_getaddrinfo()</function>.
</para>

</refsect1>

<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_getaddrinfo()</function>
returns zero on success or one of the error codes listed in
<citerefentry>
<refentrytitle>gai_strerror</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
if an error occurs.
If both
<parameter>hostname</parameter>
and
<parameter>servname</parameter>
are
<type>NULL</type>
<function>lwres_getaddrinfo()</function>
returns
<errorcode>EAI_NONAME</errorcode>.

</para>

</refsect1>

<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,&br/>

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

<citerefentry>
<refentrytitle>lwres_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,&br/>

<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>

```

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/parseint.h
* /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/streerror.c
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# $Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp $

# Search for machine-generated header files in the build tree,
# and for normal headers in the source tree (${top_srcdir}).
# We only need to look in OS-specific subdirectories for the
# latter case, because there are no machine-generated OS-specific
# headers.

ISC_INCLUDES = @BIND9_ISC_BUILDINCLUDE@ \
-I${top_srcdir}/lib/isc \
-I${top_srcdir}/lib/isc/include \
-I${top_srcdir}/lib/isc/unix/include \
-I${top_srcdir}/lib/isc/@ISC_THREAD_DIR@/include

ISCCFG_INCLUDES = @BIND9_ISCCFG_BUILDINCLUDE@ \
-I${top_srcdir}/lib/isccfg/include

DNS_INCLUDES = @BIND9_DNS_BUILDINCLUDE@ \
-I${top_srcdir}/lib/dns/include \
-I${top_srcdir}/lib/dns/sec/dst/include

OMAPI_INCLUDES = @BIND9_OMAPI_BUILDINCLUDE@ \
-I${top_srcdir}/lib/omapi/include

LWRES_INCLUDES = @BIND9_LWRES_BUILDINCLUDE@ \
-I${top_srcdir}/lib/lwres/include

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

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```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/nsec_47.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/rrsig_46.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/rrsig_46.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/sshfp_44.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/stat.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/ifiter_getifaddrs.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/nsec_47.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/sshfp_44.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/dnskey_48.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/stdlib.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/hash.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/portlist.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/dnskey_48.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/portlist.h
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; \$Id: bindevt.mc,v 1.1 2004/11/03 01:39:06 abstine Exp \$

MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)

OutputBase = 16

MessageId=0x1

Severity=Error

Facility=Application

SymbolicName=BIND_ERR_MSG

Language=English

% 1

.

MessageId=0x2

Severity=Warning

Facility=Application

SymbolicName=BIND_WARN_MSG

Language=English

% 1

.

MessageId=0x3

Severity=Informational

Facility=Application

SymbolicName=BIND_INFO_MSG

Language=English

% 1

.

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/win32/bindevt/bindevt.mc

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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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 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/hpux9/include/sys/cdefs.h
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 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/next/include/sys/cdefs.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/aix4/include/sys/cdefs.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/unixware20/include/sys/cdefs.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/hpux/include/sys/cdefs.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/solaris/include/sys/cdefs.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/sunos/include/sys/cdefs.h

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

```

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

```

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<refentry>
<refentryinfo>

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<date>Jun 30, 2000</date>
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<refmeta>
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<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
<refnamediv>
<refname>lwres_context_create</refname>
<refname>lwres_context_destroy</refname>
<refname>lwres_context_nextserial</refname>
<refname>lwres_context_initserial</refname>
<refname>lwres_context_freemem</refname>
<refname>lwres_context_allocmem</refname>
<refname>lwres_context_sendrecv</refname>
<refpurpose>lightweight resolver context management</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_context_create</function></funcdef>
<paramdef>lwres_context_t **contextp</paramdef>

```

```

<paramdef>void *arg</paramdef>
<paramdef>lwres_malloc_t malloc_function</paramdef>
<paramdef>lwres_free_t free_function</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
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<function>lwres_context_destroy</function></funcdef>
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</funcprototype>
<funcprototype>
<funcdef>
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<function>lwres_context_initserial</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t serial</paramdef>
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lwres_uint32_t
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<paramdef>void *mem</paramdef>
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</funcprototype>
<funcprototype>
<funcdef>
void *
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<paramdef>void *sendbase</paramdef>
<paramdef>int sendlen</paramdef>
<paramdef>void *recvbase</paramdef>
<paramdef>int recvlen</paramdef>
<paramdef>int *recvd_len</paramdef>

```



```

</funcprototype>
</funcsynopsis>
</refsynopsisdiv>
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<title>DESCRIPTION</title>
<para>
<function>lwres_context_create()</function>
creates a
<type>lwres_context_t</type>
structure for use in lightweight resolver operations.
It holds a socket and other data needed for communicating
with a resolver daemon.
The new
<type>lwres_context_t</type>
is returned through
<parameter>contextp</parameter>,

a pointer to a
<type>lwres_context_t</type>
pointer. This
<type>lwres_context_t</type>
pointer must initially be NULL, and is modified
to point to the newly created
<type>lwres_context_t</type>.

</para>
<para>
When the lightweight resolver needs to perform dynamic memory
allocation, it will call
<parameter>malloc_function</parameter>
to allocate memory and
<parameter>free_function</parameter>

to free it. If
<parameter>malloc_function</parameter>
and
<parameter>free_function</parameter>

are NULL, memory is allocated using
.Xr malloc 3
and
<citerefentry>
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.

It is not permitted to have a NULL
<parameter>malloc_function</parameter>
and a non-NULL

```

<parameter>free_function</parameter>

or vice versa.

<parameter>arg</parameter>

is passed as the first parameter to the memory allocation functions.

If

<parameter>malloc_function</parameter>

and

<parameter>free_function</parameter>

are NULL,

<parameter>arg</parameter>

is unused and should be passed as NULL.

</para>

<para>

Once memory for the structure has been allocated, it is initialized using

<citerefentry>

<refentrytitle>lwres_conf_init</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>

and returned via

<parameter>*contextp</parameter>.

</para>

<para>

<function>lwres_context_destroy()</function>

destroys a

<type>lwres_context_t</type>,

closing its socket.

<parameter>contextp</parameter>

is a pointer to a pointer to the context that is to be destroyed.

The pointer will be set to NULL when the context has been destroyed.

</para>

<para>

The context holds a serial number that is used to identify resolver request packets and associate responses with the corresponding requests.

This serial number is controlled using

<function>lwres_context_initserial()</function>

and

<function>lwres_context_nextserial()</function>.

<function>lwres_context_initserial()</function>

sets the serial number for context

<parameter>*ctx</parameter>

to

<parameter>serial</parameter>.

<function>lwres_context_nextserial()</function>

increments the serial number and returns the previous value.

</para>

<para>

Memory for a lightweight resolver context is allocated and freed using

<function>lwres_context_allocmem()</function>

and

<function>lwres_context_freemem()</function>.

These use whatever allocations were defined when the context was created with

<function>lwres_context_create()</function>.

<function>lwres_context_allocmem()</function>

allocates

<parameter>len</parameter>

bytes of memory and if successful returns a pointer to the allocated storage.

<function>lwres_context_freemem()</function>

frees

<parameter>len</parameter>

bytes of space starting at location

<parameter>mem</parameter>.

</para>

<para>

<function>lwres_context_sendrecv()</function>

performs I/O for the context

<parameter>ctx</parameter>.

Data are read and written from the context's socket.

It writes data from

<parameter>sendbase</parameter>

— typically a lightweight resolver query packet —

and waits for a reply which is copied to the receive buffer at

<parameter>recvbase</parameter>.

The number of bytes that were written to this receive buffer is

returned in

<parameter>*recvd_len</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres_context_create()</function>

returns

<errorcode>LWRES_R_NOMEMORY</errorcode>

if memory for the

<type>struct lwres_context</type>
could not be allocated,
<errorcode>LWRES_R_SUCCESS</errorcode>
otherwise.

</para>

<para>
Successful calls to the memory allocator
<function>lwres_context_allocmem()</function>
return a pointer to the start of the allocated space.
It returns NULL if memory could not be allocated.

</para>

<para>
<errorcode>LWRES_R_SUCCESS</errorcode>
is returned when
<function>lwres_context_sendrecv()</function>
completes successfully.
<errorcode>LWRES_R_IOERROR</errorcode>
is returned if an I/O error occurs and
<errorcode>LWRES_R_TIMEOUT</errorcode>
is returned if
<function>lwres_context_sendrecv()</function>
times out waiting for a response.

</para>

</refsect1>

<refsect1>
<title>SEE ALSO</title>

<para>
<citerefentry>
<refentrytitle>lwres_conf_init</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,&br/>

<citerefentry>
<refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,&br/>

<citerefentry>
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>
</manvolnum>
</citerefentry>.

</para>

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 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/dst/dst_internal.h
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/dst_internal.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/dst_parse.h

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/lwinetpton.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/symtab.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/inet_ntop.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/symtab.h

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

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_noop.3

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/ssu.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/threads/thread.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/ssu.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/peer.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sdb.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/string.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/stat.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/context.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/peer.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/lookup.c

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* This code implements the MD5 message-digest algorithm.

* The algorithm is due to Ron Rivest. This code was

* written by Colin Plumb in 1993, no copyright is claimed.

* This code is in the public domain; do with it what you wish.

*

* Equivalent code is available from RSA Data Security, Inc.

* This code has been tested against that, and is equivalent,

* except that you don't need to include two pages of legalese

* with every copy.

*

* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/md5.c

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

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/event.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/netaddr.h
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/proforma.c
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/txt_16.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/threads/include/isc/mutex.h

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/ctl_p.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_cidr_pton.c

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/ctl_srvr.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/resolv/res_mkupdate.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_cidr_ntop.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/isc/ctl.h
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<!-- \$Id: lwres_resutil.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_resutil</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres_string_parse</refname>

<refname>lwres_addr_parse</refname>

<refname>lwres_getaddrsbyname</refname>

<refname>lwres_getnamebyaddr</refname>

<refpurpose>lightweight resolver utility functions</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

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

```

<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_string_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>char **c</paramdef>
<paramdef>lwres_uint16_t *len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_addr_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_addr_t *addr</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getaddrsbyname</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *name</paramdef>
<paramdef>lwres_uint32_t addrtypes</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getnamebyaddr</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t addrtype</paramdef>
<paramdef>lwres_uint16_t addrlen</paramdef>
<paramdef>const unsigned char *addr</paramdef>
<paramdef>lwres_gnbaresponse_t **structp</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

```

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres_string_parse()</function> retrieves a DNS-encoded string starting the current pointer of lightweight resolver buffer

<parameter>b</parameter>: i.e. <constant>b->current</constant>.

When the function returns, the address of the first byte of the encoded string is returned via <parameter>*c</parameter> and the length of that string is given by <parameter>*len</parameter>. The buffer's current pointer is advanced to point at the character

following the string length, the encoded string, and the trailing
<type>NULL</type> character.

</para>

<para>

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

</para>

<para>

<function>lwres_getaddrbyname()</function>

and

<function>lwres_getnamebyaddr()</function>

use the

<type>lwres_gnbaresponse_t</type>

structure defined below:

<programlisting>

```
typedef struct {
    lwres_uint32_t    flags;
    lwres_uint16_t    naliases;
    lwres_uint16_t    naddrs;
    char              *realname;
    char              **aliases;
    lwres_uint16_t    realnamelen;
    lwres_uint16_t    *aliaslen;
    lwres_addrlist_t  addrs;
    void              *base;
    size_t            baselen;
} lwres_gabnresponse_t;
```

</programlisting>

The contents of this structure are not manipulated directly but
they are controlled through the

<citrefentry>

<refentrytitle>lwres_gabn</refentrytitle><manvolnum>3

</manvolnum>

</citrefentry>

functions.

</para>

<para>

The lightweight resolver uses

`lwres_getaddrbyname()` to perform forward lookups.

Hostname `name` is looked up using the resolver context `ctx` for memory allocation.

`addrtypes` is a bitmask indicating which type of addresses are to be looked up. Current values for this bitmask are

`LWRES_ADDRTYPE_V4` for IPv4 addresses and

`LWRES_ADDRTYPE_V6` for IPv6 addresses. Results of the lookup are returned in `*structp`.

`lwres_getnamebyaddr()` performs reverse lookups.

Resolver context `ctx` is used for memory allocation. The address type is indicated by

`addrtype`: `LWRES_ADDRTYPE_V4` or

`LWRES_ADDRTYPE_V6`. The address to be looked up is given by `addr` and its length is

`addrlen` bytes. The result of the function call is made available through `*structp`.

RETURN VALUES

Successful calls to

`lwres_string_parse()`

and

`lwres_addr_parse()`

return

`LWRES_R_SUCCESS`.

Both functions return

`LWRES_R_FAILURE`

if the buffer is corrupt or

`LWRES_R_UNEXPECTEDEND`

if the buffer has less space than expected for the components of the encoded string or address.

`lwres_getaddrbyname()`

returns

`LWRES_R_SUCCESS`

on success and it returns

`LWRES_R_NOTFOUND`

if the hostname

`name`

could not be found.

</para>

<para>

<errorcode>LWRES_R_SUCCESS</errorcode>

is returned by a successful call to

<function>lwres_getnamebyaddr()</function>.

</para>

<para>

Both

<function>lwres_getaddrsbyname()</function>

and

<function>lwres_getnamebyaddr()</function>

return

<errorcode>LWRES_R_NOMEMORY</errorcode>

when memory allocation requests fail and

<errorcode>LWRES_R_UNEXPECTEDEND</errorcode>

if the buffers used for sending queries and receiving replies are too small.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres_buffer</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_gabn</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

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*
* 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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.\"
```

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

<refentry>

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

```

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

<refnamediv>
<refname>lwres_getipnodebyname</refname>
<refname>lwres_getipnodebyaddr</refname>
<refname>lwres_freehostent</refname>
<refpurpose>lightweight resolver nodename / address translation API</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_getipnodebyname</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
<paramdef>int flags</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_getipnodebyaddr</function></funcdef>
<paramdef>const void *src</paramdef>
<paramdef>size_t len</paramdef>
<paramdef>int af</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freehostent</function></funcdef>
<paramdef>struct hostent *he</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>

<para>
These functions perform thread safe, protocol independent

```

nodename-to-address and address-to-nodename translation as defined in RFC2553.

</para>

<para>

They use a

<type>struct hostent</type>

which is defined in

<filename>namedb.h</filename>:

<programlisting>

```
struct hostent {
    char    *h_name;      /* official name of host */
    char    **h_aliases;  /* alias list */
    int     h_addrtype;   /* host address type */
    int     h_length;     /* length of address */
    char    **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
```

</programlisting>

</para>

<para>

The members of this structure are:

<variablelist>

<varlistentry><term><constant>h_name</constant></term>

<listitem>

<para>

The official (canonical) name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h_addrtype</constant></term>

<listitem>

<para>

The type of address being returned - usually

<type>PF_INET</type>

or

<type>PF_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h_addr_list</constant></term>

<listitem>

<para>

A

<type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<function>lwres_getipnodebyname()</function>

looks up addresses of protocol family

<parameter>af</parameter>

for the hostname

<parameter>name</parameter>.

The

<parameter>flags</parameter>

parameter contains ORed flag bits to

specify the types of addresses that are searched

for, and the types of addresses that are returned.

The flag bits are:

<variablelist>

<varlistentry><term><constant>AI_V4MAPPED</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF_INET6, and causes IPv4 addresses to be returned as IPv4-mapped

IPv6 addresses.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI_ALL</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF_INET6, and causes all known addresses (IPv6 and IPv4) to be returned.

If AI_V4MAPPED is also set, the IPv4 addresses are return as mapped

IPv6 addresses.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI_ADDRCONFIG</constant></term>

<listitem>

<para>

Only return an IPv6 or IPv4 address if 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>

<varlistentry><term><constant>AI_DEFAULT</constant></term>

<listitem>

<para>

This default sets the

<constant>AI_V4MAPPED</constant>

and

<constant>AI_ADDRCONFIG</constant>

flag bits.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<function>lwres_getipnodebyaddr()</function>

performs a reverse lookup of address

<parameter>src</parameter>

which is

<parameter>len</parameter>

bytes long.

<parameter>af</parameter>

denotes the protocol family, typically

<type>PF_INET</type>

or

<type>PF_INET6</type>.

</para>

<para>

<function>lwres_freehostent()</function>

releases all the memory associated with the

<type>struct hostent</type>

pointer

<parameter>he</parameter>.

Any memory allocated for the

<constant>h_name</constant>,

<constant>h_addr_list</constant>

and

<constant>h_aliases</constant>

is freed, as is the memory for the

<type>hostent</type>

structure itself.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

If an error occurs,

<function>lwres_getipnodebyname()</function>

and

<function>lwres_getipnodebyaddr()</function>

set

<parameter>*error_num</parameter>

to an appropriate error code and the function returns a

<type>NULL</type>

pointer.

The error codes and their meanings are defined in

<filename><lwres/netdb.h></filename>:

<variablelist>

<varlistentry><term><constant>HOST_NOT_FOUND</constant></term>

<listitem>

<para>

No such host is known.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO_ADDRESS</constant></term>

<listitem>

<para>

The server recognised the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>TRY_AGAIN</constant></term>

<listitem>

<para>

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

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO_RECOVERY</constant></term>

<listitem>

<para>

An unexpected failure occurred, and retrying the request

is pointless.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<citerefentry>

<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

translates these error codes to suitable error messages.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>RFC2553</refentrytitle>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_gethostent</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_getnameinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

</para>

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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/lwres/man/lwres_packet.3
```

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```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/make/rules.in
```

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```

Found in path(s):

```

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/resolver.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/cert_37.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/message.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/zone.h

```

- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/ncache.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/adb.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/cache.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/dispatch.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/view.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/net.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/net.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/dnssec.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/nxt_30.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/master.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/sig_24.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/interfaceiter.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/sockaddr.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/log.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/types.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/tkey_249.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rbt.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/loc_29.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/message.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/app.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/net.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/tests/t_api.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/db.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/getipnode.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/dispatch.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/xfrin.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/net.h
- * /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/ifiter_sysctl.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/any_255/tsig_250.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/masterdump.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/ifiter_ioctl.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rdataset.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/view.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/adb.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdataset.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/a6_38.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/random.c

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- */

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

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```
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*/

/* \$Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp \$ */

#ifndef LWRES_PLATFORM_H

#define LWRES_PLATFORM_H 1

/*

***** Platform-dependent defines.

*****/

/*

*** Network.

*****/

/*

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

*/

@LWRES_PLATFORM_NEEDNETINETIN6H@

/*

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

*/

@LWRES_PLATFORM_NEEDNETINET6IN6H@

/*

* If sockaddrs on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN

* will be defined.

```

*/
@LWRES_PLATFORM_HAVESALEN@

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

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

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

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

/*
* Defined if unistd.h does not cause fd_set to be delared.
*/
@LWRES_PLATFORM_NEEDSYSSELECTH@

/*
* Used to control how extern data is linked; needed for Win32 platforms.
*/
@LWRES_PLATFORM_USEDECLSPEC@

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

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

#endif LWRES_PLATFORM_USEDECLSPEC

```

```
#define LIBLWRES_EXTERNAL_DATA
#else
#ifdef LIBLWRES_EXPORTS
#define LIBLWRES_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBLWRES_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif
```

```
#endif /* LWRES_PLATFORM_H */
```

Found in path(s):

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/platform.h.in

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```

```
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```
* _
```

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/bsd/strsep.c

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- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/gssapi_link.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/unix/include/lwres/net.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscconf/include/iscconf/cfg.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/pthreads/mutex.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/errno2result.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/include/dst/dst.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/errno2result.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/entropy.c

```

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/os.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/file.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/ipv6.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/fsaccess.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/lwres_gnba.c
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```

```

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

```

```

/*
* The file basename is the facility name, the name is made
* uppercase. This file defines facility EVENTLIB
*/

```

```

module {
    description "EVENTLIB system messages";
}

```

```

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

```

```

format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";

```

```

    arg {
        "int" dispatch_time "event dispatch time";
        "int" elapsed_time "event elapsed time";
        "int" hog_detected "event hog detected";
        "int" set_count "event set count since dispatch"
    }

```

```

    explanation
        "Eventlib historical summary for detected hog.";

```

```

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

```

```

    tac_details
        "Eventlib historical summary for detected hog.";
}

```

```

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

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

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

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

    tac_details
        "Eventlib historical element for detected hog.";
}

```

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/eventlib.em

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```

/*-----
* eventlib definitions specific to binos
*
* January 2007, Vikram Visweswaraiah
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*-----
*/

```

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```

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

```

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_context.3

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/openssldsa_link.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/openssldh_link.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/dst_parse.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/hmac_link.c

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/soa.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/forward.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/os.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/timer_p.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/hmacmd5.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/resource.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdatalist_p.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/timer.h
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 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/gai_strerror.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/file.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/int.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/fsaccess.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/forward.h
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 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/errno2result.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/netdb.h.in
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/lwres_noop.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/os.h
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 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/sdb.h
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 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/task_p.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/offset.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/ondestroy.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/stats.h
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/keyboard.c
 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/lwresutil.c
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 * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/ondestroy.h
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/stdio.h
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/fsaccess.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/result.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/offset.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/bit.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/gethost.c

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/win32/DLLMain.c

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscconf/win32/DLLMain.c

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/ntpaths.c

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/ntgroups.h

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind9/include/bind9/check.h

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/DLLMain.c

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/bind_registry.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/version.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind9/version.c

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind9/include/bind9/getaddresses.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/version.c

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind9/include/bind9/version.h

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscconf/include/iscconf/version.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscconf/include/iscconf/log.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/ntgroups.c

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/bindevt.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/DLLMain.c

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/strerror.h

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/solaris/include/sys/bittypes.h

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

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

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/win32/DLLMain.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/iscconf/log.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/key.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/syslog.c
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/resolv/res_findzonecut.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/irp.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/resolv/res_debug.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/sco42/include/sys/un.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/isc/irpmarshall.h
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- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/rwlock.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/rwlock.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/time.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/result.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/mx_15.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/task.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/result.h
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/time.c
- * /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/base64.c

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Found in path(s):

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

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

.\"

Found in path(s):

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_config.3

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.\" \$Id: eventlib.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp \$

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<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">

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-->

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

<refentry>

<refentryinfo>

<date>Oct 18, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres_getrrsetbyname</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres_getrrsetbyname</refname>

<refname>lwres_freerrset</refname>

<refpurpose>retrieve DNS records</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

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

<funcprototype>

<funcdef>

int

<function>lwres_getrrsetbyname</function></funcdef>

<paramdef>const char *hostname</paramdef>

<paramdef>unsigned int rdclass</paramdef>

<paramdef>unsigned int rdtype</paramdef>

<paramdef>unsigned int flags</paramdef>

<paramdef>struct rrsetinfo **res</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres_freerrset</function></funcdef>

<paramdef>struct rrsetinfo *rrset</paramdef>

</funcprototype>

</funcsynopsis>

<para>

The following structures are used:

<programlisting>

```
struct rdatainfo {
    unsigned int    rdi_length; /* length of data */
    unsigned char   *rdi_data; /* record data */
};
```

```

struct rrsetinfo {
    unsigned int    rri_flags;    /* RRSET_VALIDATED... */
    unsigned int    rri_rclass;   /* class number */
    unsigned int    rri_rdtype;   /* RR type number */
    unsigned int    rri_ttl;      /* time to live */
    unsigned int    rri_nrdatas;   /* size of rdatas array */
    unsigned int    rri_nsigs;    /* size of sigs array */
    char            *rri_name;     /* canonical name */
    struct rdatainfo *rri_rdatas;  /* individual records */
    struct rdatainfo *rri_sigs;   /* individual signatures */
};

```

</programlisting>

</para>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres_getrrsetbyname()</function>

gets a set of resource records associated with a

<parameter>hostname</parameter>,

<parameter>class</parameter>,

and

<parameter>type</parameter>.

<parameter>hostname</parameter>

is

a pointer to a null-terminated string. The

<parameter>flags</parameter>

field is currently unused and must be zero.

</para>

<para>

After a successful call to

<function>lwres_getrrsetbyname()</function>,

<parameter>*res</parameter>

is a pointer to an

<type>rrsetinfo</type>

structure, containing a list of one or more

<type>rdatainfo</type>

structures containing resource records and potentially another list of

<type>rdatainfo</type>

structures containing SIG resource records

associated with those records.

The members

<constant>rri_rclass</constant>

and
`<constant>rri_rdtype</constant>`
 are copied from the parameters.
`<constant>rri_ttl</constant>`
 and
`<constant>rri_name</constant>`
 are properties of the obtained rrset.
 The resource records contained in
`<constant>rri_rdatas</constant>`
 and
`<constant>rri_sigs</constant>`
 are in uncompressed DNS wire format.
 Properties of the rdataset are represented in the
`<constant>rri_flags</constant>`
 bitfield. If the RRSET_VALIDATED bit is set, the data has been DNSSEC
 validated and the signatures verified.

`</para>`

`<para>`
 All of the information returned by
`<function>lwres_getrrsetbyname()</function>`
 is dynamically allocated: the
`<constant>rrsetinfo</constant>`
 and
`<constant>rdatainfo</constant>`
 structures,
 and the canonical host name strings pointed to by the
`<constant>rrsetinfo</constant>` structure.

Memory allocated for the dynamically allocated structures created by
 a successful call to
`<function>lwres_getrrsetbyname()</function>`
 is released by
`<function>lwres_freerrset()</function>`.

`<parameter>rrset</parameter>`
 is a pointer to a
`<type>struct rrset</type>`
 created by a call to
`<function>lwres_getrrsetbyname()</function>`.

`</para>`

`<para>`

`</para>`

`</refsect1>`

`<refsect1>`

`<title>RETURN VALUES</title>`

`<para>`

`<function>lwres_getrrsetbyname()</function>`

returns zero on success, and one of the following error

codes if an error occurred:

<variablelist>

<varlistentry><term><constant>ERRSET_NONAME</constant></term>

<listitem><para>

the name does not exist

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_NODATA</constant></term>

<listitem><para>

the name exists, but does not have data of the desired type

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_NOMEMORY</constant></term>

<listitem><para>

memory could not be allocated

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_INVALID</constant></term>

<listitem><para>

a parameter is invalid

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_FAIL</constant></term>

<listitem><para>

other failure

</para></listitem></varlistentry>

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

<listitem><para>

</para></listitem></varlistentry>

</variablelist>

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

Found in path(s):

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_gettrsetbyname.docbook

1.12 pnp 3.0.0.dev2 r0

1.12.1 Available under license :

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Metadata-Version: 1.2

Name: pnp

Version: 3.0.0.dev2

Summary: Plug-n-Play Agent for Cisco Network-PnP

Home-page: <https://developer.cisco.com/site/open-plug-n-play/>

Author: Network Plug-n-Play

Author-email: 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

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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/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/xml/xmlgenerator.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/api/lease_parser.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/topology.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/clock_sync.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/utils/file_utils.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/reload.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/utils/pnp_constants.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/script.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/api/pnp_service.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/utils/pnp_logging.py
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/mechanisms/cco_discovery.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/cli_config.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/connection_manager.py
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/script_exec.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/agent.py
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/profile/profile_manager.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/certificate.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/user_auth.py
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/infra/lease_parser.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/wlc.py
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/exec_log.py
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0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/cdp.py
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/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
```

1.13 procps 3.3.15

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1.14 elfutils 0.180 r0

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Ty Coon, President of Vice

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```
#ifndef __LICENSE_H
```

```
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{
return (strcmp(license, "GPL") == 0
|| strcmp(license, "GPL v2") == 0
|| strcmp(license, "GPL and additional rights") == 0
|| strcmp(license, "Dual BSD/GPL") == 0
|| strcmp(license, "Dual MIT/GPL") == 0
|| strcmp(license, "Dual MPL/GPL") == 0);
}
```

```
#endif
```

```
/* nicstar.c v0.22 Jawaid Bazayar (bazyar@hypermall.com)
```

```
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
```

```
*
```

```
* Hacked October, 1997 by Jawaid Bazayar, 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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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>

for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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1.17 lxml 4.6.2

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1.18 libdb-utils 5.3.28

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* Eindhoven University of Technology, The Netherlands, in 1990, 1991,
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    License, v. 2.0. If a copy of the MPL was not distributed with this
    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:

```

- mode: sgml

- End:

-->

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1.28 libcom-err 1.45.6

1.28.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

all:: image

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

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

image: \$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

clean::

\$(RM) -rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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

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Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell      2005
+ Copyright (C) Andrew Tridgell      1999-2005
+ Copyright (C) Jeremy Allison      2000-2006
+ Copyright (C) Paul 'Rusty' Russell  2000
```

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Theodore Ts'o
23-June-2007

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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.

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

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

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"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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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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That's all there is to it!
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:

<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 ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are

otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the Common Error
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```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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```
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```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.29 libpcap 1.9.1

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1.30 importlib-metadata 2.0.0 r0

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1.31 ply 3.11 r0

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* /opt/cola/permits/1294739106_1648246439.37/0/dabeaz-ply-3-11-0-g0f398b7-tar-gz/dabeaz-ply-0f398b7/ply/yacc.py

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PLY (Python Lex-Yacc) Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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Introduction

=====

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1)

algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use

=====

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements

=====

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources

=====

More information about PLY can be obtained on the PLY webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

An old and relatively inactive discussion group for PLY is found at:

<http://groups.google.com/group/ply-hack>

Acknowledgments

=====

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example

=====

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# -----  
# calc.py  
#
```

```

# A simple calculator with variables.
# -----

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
)

# Tokens

t_PLUS = r\+'
t_MINUS = r\-'
t_TIMES = r\*'
t_DIVIDE = r\/'
t_EQUALS = r\='
t_LPAREN = r\( '
t_RPAREN = r\) '
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

# dictionary of names (for storing variables)

```



```

names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''
    if p[2] == '+': p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:

```

```
s = raw_input('calc > ') # use input() on Python 3
except EOFError:
    break
yacc.parse(s)
```

Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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```
* /opt/cola/permits/1294739106_1648246439.37/0/dabeaz-ply-3-11-0-g0f398b7-tar-gz/dabeaz-ply-0f398b7/README.md
```

1.32 crontabs 1.11

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1.33 libvirt 6.3.0 r0

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```
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```

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1.35 pynacl 1.4.0

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1.36 cryptsetup-libs 2.3.3

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1.37 networkx 2.5 r0

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1.38 kmod 27 r0

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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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Version 3, 29 June 2007

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```

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1.42 curl 7.72.0 r0

1.42.1 Available under license :

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License Mixing

=====

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

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

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the

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libcurl

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

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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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Heimdal

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OpenLDAP

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

libssh2

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

1.43 bridgeutils 1.6 r0

1.44 strace 5.7

1.44.1 Available under license :

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Version 2.1, February 1999

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1.49 rpm 4.14.3

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1.50 setuptools-scm 4.1.2 r0

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1.51 kmod 25

1.51.1 Available under license :

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally

distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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Ty Coon, President of Vice

That's all there is to it!

1.53 paramiko 2.7.2 r0

1.53.1 Available under license :

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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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- 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.

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library

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

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

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

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

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

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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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1.54 libunwind 1.1

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Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:

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

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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

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

[Cracklib-devel] cracklib license

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

Attachments: Message as HTML

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Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

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-- Nathan

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Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

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> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

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From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

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

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

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

Cheers,

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From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

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> the change now ?

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Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

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> yes. go for it. thanks++

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

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

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>

<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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

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

Happy now? :-)

-a

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

Discussion thread from mailing list archive, with approval from everyone actively
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Attachments: Message as HTML

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Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umd.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623
for <nneul@umd.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umd.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

Content-Type: text/plain; charset=US-ASCII; delp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
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From: Alec Muffett <alecm@crypticide.com>
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X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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

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

Happy now? :-)

-a

1.57 systemd-libs 239

1.57.1 Available under license :

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Version 2, June 1991

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```
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```

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```
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```

```
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1.58 libcurl 7.61.1

1.58.1 Available under license :

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=====

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

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

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

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1.59 ncurses 6.1

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

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-- vile:txtmode fc=72
-- \$Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp \$
Upstream source <https://invisible-island.net/ncurses/ncurses.html>
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8

1.60 glib 2.64.5 r0

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1.61 pysocks 1.7.1 r0

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1.62 passwd 0.80

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1.69 click 7.1.2 r0

1.69.1 Available under license :

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.. _contrib:

```
=====
click-contrib
=====
```

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common

organization, they are still projects separate from Click.

.. _click-contrib: <https://github.com/click-contrib/>

Found in path(s):

* /opt/cola/permits/1308206668_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/docs/contrib.rst

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Found in path(s):

* /opt/cola/permits/1308206668_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/tests/test_formatting.py

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* /opt/cola/permits/1308206668_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/parser.py

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

Found in path(s):

* /opt/cola/permits/1308206668_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/_compat.py

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Found in path(s):

```
* /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

1.70 vim 8.2 r0

1.71 selinux-python 3.0 r0

1.71.1 Available under license :

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1.73 python3-setuptools-wheel 39.2.0

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

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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:

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

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

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

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

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

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1.81 dnf-data 4.4.2

1.81.1 Available under license :

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Version 2, June 1991

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

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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 the scope of this License.

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a) 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; or,

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

c) Accompany it with the information you received as to the offer

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

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

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

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

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

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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1.82 attr 2.4.48 r0

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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

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

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"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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- a) The modified work must itself be a software 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.)

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or

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

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

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

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

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

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

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

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

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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:

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

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

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

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

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

which the executable runs, unless that component itself accompanies the executable.

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```
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Version 3.1, 31 March 2009

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

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

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

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

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This

license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no

charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

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

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

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

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

the executable.

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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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

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@cindex LGPL, Lesser General Public License
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@appendixsubsec Preamble

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

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

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

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

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

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original

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

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

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

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

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

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

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

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

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

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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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.

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The modified work must itself be a software library.

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

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

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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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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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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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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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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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@item

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

@item

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@item

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@item

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

@end enumerate

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@page

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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That's all there is to it!

=====
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=====

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1.91 libnss-nis 3.1+git0+062f31999b r0

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Version 2.1, February 1999

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1.92 u-boot 2015.07

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1.94 pexpect 4.8.0 r0

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1.95 sfdisk 2.25.2 r0

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```

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

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023 bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux
<removed>2		4096	20479	16384	8M	a5	FreeBSD

Create default BSD

2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: bsd

partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
-------	-------	-----	---------	------	------	-------	-------	-----

```
c  4096 20479 16384  8M unused    0  0  0
d    0 16064 16065 7.9M unused    0  0  0
```

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: bsd

partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
a	4096	6144	2049	1M	4.2BSD	0	0	0
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0 unused	5 4.1BSD	9 4.4LFS	d boot
1 swap	6 Eighth Edition	a unknown	e ADOS
2 Version 6	7 4.2BSD	b HPFS	f HFS
3 Version 7	8 MS-DOS	c ISO-9660	10 AdvFS
4 System V			

Command (m for help):

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1.98 openssh 7.4p1

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* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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Version 2.1, February 1999

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DRuntime: Runtime Library for the D Programming Language

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1.100 device-mapper-libs 1.02.175

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1.104 wcwidth 0.2.5 r0

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

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1.105 cffi 1.14.4

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1.106 p11-kit 0.23.21

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1.107 marvell_cpss 4.0.8

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1.108 urllib3 1.25.8 r0

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Contributions to the urllib3 project

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Contributors

In chronological order:

* victor.vde <<http://code.google.com/u/victor.vde/>>

* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>

* Client-verified SSL certificates for HTTPSConnectionPool

* Response gzip and deflate encoding support

* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>

* Non-multipart encoding for POST requests

* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>

* Bugfixes, suggestions, Requests integration

* georgemarshall <<https://github.com/georgemarshall>>

- * Bugfixes, Improvements and Test coverage
- * Thomas Kluyver <thomas@kluyver.me.uk>
- * Python 3 support
- * brandon-rhodes <<http://rhodesmill.org/brandon>>
- * Design review, bugfixes, test coverage.
- * studer <theo.studer@gmail.com>
- * IPv6 url support and test coverage
- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
- * Support for explicitly closing pooled connections
- * hartator <hartator@gmail.com>
- * Corrected multipart behavior for params
- * Thomas Weischuh <thomas@t-8ch.de>
- * Support for TLS SNI
- * API unification of ssl_version/cert_reqs
- * SSL fingerprint and alternative hostname verification
- * Bugfixes in testsuite
- * Sune Kirkeby <mig@ibofobi.dk>
- * Optional SNI-support for Python 2 via PyOpenSSL.
- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.
- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions
- * Boris Figovsky <boris.figovsky@ravellosystems.com>
- * Allowed to skip SSL hostname verification
- * Cory Benfield <<https://lukasa.co.uk/about/>>
- * Stream method for Response objects.
- * Return native strings in header values.
- * Generate 'Host' header when using proxies.
- * Jason Robinson <jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL
- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition
- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>

- * Added HTTPS (CONNECT) proxy support
- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields
- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters
- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts
- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire
- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality
- * Danilo @dbrgn <https://dbrgn.ch/>
- * Disabled TLS compression by default on Python 3.2+
- * Disabled TLS compression in pyopenssl contrib module
- * Configurable cipher suites in pyopenssl contrib module
- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- * Account retries on proxy errors
- * Nicolas Delaby <nicolas.delaby@ezeep.com>
- * Use the platform-specific CA certificate locations
- * Josh Schneier <https://github.com/jschneier>
- * HTTPHeaderDict and associated tests and docs
- * Bugfixes, docs, test coverage
- * Tahia Khan <http://tahia.tk/>
- * Added Timeout examples in docs
- * Arthur Grunseid <https://grunseid.com>
- * source_address support and tests (with https://github.com/bui)
- * Ian Cordasco <graffatcolmingov@gmail.com>
- * PEP8 Compliance and Linting
- * Add ability to pass socket options to an HTTP Connection
- * Erik Tollerud <erik.tollerud@gmail.com>
- * Support for standard library io module.
- * Krishna Prasad <kprasad.iitd@gmail.com>
- * Google App Engine documentation

- * Aaron Meurer <asmeurer@gmail.com>
- * Added `Url.url`, which unparses a `Url`

- * Evgeny Kapun <abacabadabacaba@gmail.com>
- * Bugfixes

- * Benjamin Meyer <bm_witness@yahoo.com>
- * Security Warning Documentation update for proper capture

- * Shivan Sornarajah <github@sornars.com>
- * Support for using `ConnectionPool` and `PoolManager` as context managers.

- * Alex Gaynor <alex.gaynor@gmail.com>
- * Updates to the default SSL configuration

- * Tomas Tomecek <ttomecek@redhat.com>
- * Implemented generator for getting chunks from chunked responses.

- * tlynn <https://github.com/tlynn>
- * Respect the warning preferences at import.

- * David D. Riddle <ddriddle@illinois.edu>
- * IPv6 bugfixes in testsuite

- * Thea Flowers <magicalgirl@google.com>
- * App Engine environment tests.
- * Documentation re-write.

- * John Krauss <https://github.com/talos>
- * Clues to debugging problems with ``cryptography`` dependency in docs

- * Disassem <https://github.com/Disassem>
- * Fix pool-default headers not applying for url-encoded requests like GET.

- * James Atherfold <jlatherfold@hotmail.com>
- * Bugfixes relating to cleanup of connections during errors.

- * Christian Pedersen <https://github.com/chripede>
- * IPv6 HTTPS proxy bugfix

- * Jordan Moldow <https://github.com/jmoldow>
- * Fix low-level exceptions leaking from ```HTTPResponse.stream()```.
- * Bugfix for ```ConnectionPool.urlopen(release_conn=False)```.
- * Creation of ```HTTPConnectionPool.ResponseCls```.

- * Predrag Gruevski <https://github.com/obi1kenobi>
- * Made cert digest comparison use a constant-time algorithm.

- * Adam Talsma <<https://github.com/a-tal>>
- * Bugfix to ca_cert file paths.

- * Evan Meagher <<https://evanmeagher.net>>
- * Bugfix related to `memoryview` usage in PyOpenSSL adapter

- * John Vandenberg <jayvdb@gmail.com>
- * Python 2.6 fixes; pyflakes and pep8 compliance

- * Andy Caldwell <andy.m.caldwell@gmail.com>
- * Bugfix related to reusing connections in indeterminate states.

- * Ville Skytt <ville.skytta@iki.fi>
- * Logging efficiency improvements, spelling fixes, Travis config.

- * Shige Takeda <smtakeda@gmail.com>
- * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

- * Jess Shapiro <jesse@jesseshapiro.net>
- * Various character-encoding fixes/tweaks
- * Disabling IPv6 DNS when IPv6 connections not supported

- * David Foster <<http://dafoster.net/>>
- * Ensure order of request and response headers are preserved.

- * Jeremy Cline <jeremy@jcline.org>
- * Added connection pool keys by scheme

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

- * Nate Prewitt <nate.prewitt@gmail.com>
- * Ensure timeouts are not booleans and greater than zero.
- * Fixed infinite loop in ``stream`` when amt=None.
- * Added length_remaining to determine remaining data to be read.
- * Added enforce_content_length to raise exception when incorrect content-length received.

- * Seth Michael Larson <sethmichaellarson@protonmail.com>
- * Created selectors backport that supports PEP 475.

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

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

- * Tom White <s6yg1ez3@mail2tor.com>

- * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
- * Tim Burke <tim.burke@gmail.com>
 - * Stop buffering entire deflate-encoded responses.
- * Tuukka Mustonen <tuukka.mustonen@gmail.com>
 - * Add counter for status_forcelist retries.
- * Erik Rose <erik@mozilla.com>
 - * Bugfix to pyopenssl vendoring
- * Wolfgang Richter <wolfgang.richter@gmail.com>
 - * Bugfix related to loading full certificate chains with PyOpenSSL backend.
- * Mike Miller <github@mikeage.net>
 - * Logging improvements to include the HTTP(S) port when opening a new connection
- * Ioannis Tziakos <mail@itziakos.gr>
 - * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
 - * Update appveyor tox setup to use the 64bit python.
- * Akamai (through Jess Shapiro) <jshapiro@akamai.com>
 - * Ongoing maintenance; 2017-2018
- * Dominique Leuenberger <dimstar@opensuse.org>
 - * Minor fixes in the test suite
- * Will Bond <will@wbond.net>
 - * Add Python 2.6 support to ``contrib.securetransport``
- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
 - * using auth info for socks proxy
- * Chris Wilcox <git@crwilcox.com>
 - * Improve contribution guide
 - * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- * Bruce Merry <https://www.brucemerry.org.za>
 - * Fix leaking exceptions when system calls are interrupted with zero timeout
- * Hugo van Kemenade <https://github.com/hugovk>
 - * Drop support for EOL Python 2.6
- * Tim Bell <https://github.com/timb07>
 - * Bugfix for responses with Content-Type: message/* logging warnings
- * Justin Bramley <https://github.com/jbramleycl>
 - * Add ability to handle multiple Content-Encodings

- * Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>
- * Remove Authorization header regardless of case when redirecting to cross-site
- * James Meickle <<https://permadeath.com/>>
- * Improve handling of Retry-After header
- * Chris Jerdonek <chris.jerdonek@gmail.com>
- * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.
- * [Your name or handle] <[email or website]>
- * [Brief summary of your changes]

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1.109 libffi 3.3 r0

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```
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```

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

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1.111 e2fsprogs

1.42.99+1.43+git0+0f26747167 r0

1.111.1 Available under license :

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/ext2fs/

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

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

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/ext2fs/

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#

This is a Makefile stub which handles the creation of BSD shared
libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

```

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

```

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Theodore Ts'o
23-June-2007

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1.113 findutils 4.7.0 r0

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1.120 jinja2 2.11.2 r0

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Found in path(s):

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

```
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):

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Metadata-Version: 2.1

Name: Jinja2

Version: 2.11.2

Summary: A very fast and expressive template engine.

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

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets

Maintainer-email: contact@palletsprojects.com

License: BSD-3-Clause

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

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

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

Description: Jinja

=====

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

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

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

restricting functionality too much.

Installing

Install and update using `pip`:

.. code-block:: text

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

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

In A Nutshell

.. code-block:: jinja

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

Links

- Website: <https://palletsprojects.com/p/jinja/>
- Documentation: <https://jinja.palletsprojects.com/>
- Releases: <https://pypi.org/project/Jinja2/>
- Code: <https://github.com/pallets/jinja>
- Issue tracker: <https://github.com/pallets/jinja/issues>
- Test status: https://dev.azure.com/pallets/jinja/_build
- 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.*
Description-Content-Type: text/x-rst
Provides-Extra: i18n

Found in path(s):

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

1.121 itsdangerous 1.1.0 r0

1.121.1 Available under license :

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```
import io
```

```
import re
```

```
from setuptools import find_packages
```

```
from setuptools import setup
```

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

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

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

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

```
setup(
```

```
    name="itsdangerous",
```

```
    version=version,
```

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

```
    project_urls={
```

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

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

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

```

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

```

Found in path(s):

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

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

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Found in path(s):

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.. rst-class:: hide-header

itsdangerous
=====

.. image:: _static/itsdangerous-logo.png
:align: center
:target: <https://palletsprojects.com/p/itsdangerous/>

Sometimes you just want to send some data to untrusted environments. But how to do this safely? The trick involves signing. Given a key only you know, you can cryptographically sign your data and hand it over to someone

else. When you get the data back you can easily ensure that nobody tampered with it.

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

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

Installing

Install and update using `pip`:

.. code-block:: text

```
pip install -U itsdangerous
```

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

Example Use Cases

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

Table of Contents

.. toctree::

- signer
- serializer
- exceptions

timed
url_safe
jws
encoding
license
changes

Found in path(s):

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

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

* License: `BSD <<https://github.com/pallets/itsdangerous/blob/master/LICENSE.rst>>`_

Found in path(s):

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

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

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

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

Description: itsdangerous

=====

... so better sign this

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

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

Installing

Install and update using `pip`_:

.. code-block:: text

```
pip install -U itsdangerous
```

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

A Simple Example

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

.. code-block:: python

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

print(token)
# eyJpZCI6NSwibmFtZSI6ImI0c2RhbmRlc291cyJ9.6YP6T0BaO67XP--9UzTrmurXSmg

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

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The Pallets organization develops and supports itsdangerous and other popular packages. 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/itsdangerous/>
- * Documentation: <https://itsdangerous.palletsprojects.com/>
- * License: `BSD <<https://github.com/pallets/itsdangerous/blob/master/LICENSE.rst>>`_
- * Releases: <https://pypi.org/project/itsdangerous/>
- * Code: <https://github.com/pallets/itsdangerous>
- * Issue tracker: <https://github.com/pallets/itsdangerous/issues>

- * Test status: <https://travis-ci.org/pallets/itsdangerous>
- * Test coverage: <https://codecov.io/gh/pallets/itsdangerous>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

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

Found in path(s):

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

1.122 async-timeout 3.0.1 r0

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1.123 numactl 2.0.14+git0+dd6de072c9 r0

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1.124 iputils s20200821 r0

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1.125 curl 7.61.1

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1.126 hostname 3.20

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1.127 kmod-libs 25

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1.129 zlib 1.2.11 r0

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1.131 binutils 2.35.1 r0

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

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

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

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

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

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

(This file is under construction.) *- text -*

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
file, as requested by the FSF.

+++++

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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Version 3, 29 June 2007

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

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

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain

designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs

(which use some of those functions and data) to form executables.

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

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

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

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all

subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

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

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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

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

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

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

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that

any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

You may charge a fee for the physical act of transferring a copy,

and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

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

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

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

6. As an exception to the Sections above, you may also 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.

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1.132 pyyaml 5.3.1 r0

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1.135 libmount 2.32.1

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1.136 gnutls 3.6.14 r0

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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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- cipher/sha256-avx-amd64.S
- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S

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1.139 lua-libs 5.3.4

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1.140 oauthlib 3.1.0 r0

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1.141 pytz 2020.1 r0

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1.142 lvm2 2.03.06 r0

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If distribution of object code is made by offering access to copy

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1.145 grep 3.4 r0

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1.146 pyserial 3.4 r0

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1.147 libyaml 0.1.7

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1.148 libroxml 2.3.0 r0

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1.151 lz4 1.8.3

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

Source: <https://github.com/lz4/lz4>

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man/bitstring.3bsd

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man/fmtcheck.3bsd
man/humanize_number.3bsd
man/stringlist.3bsd
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src/fmtcheck.c
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Files:

include/bsd/sys/endian.h
man/byteorder.3bsd

man/closefrom.3bsd
man/expand_number.3bsd
man/flopen.3bsd
man/getpeereid.3bsd
man/pidfile.3bsd
src/expand_number.c
src/hash/sha512.h
src/hash/sha512c.c
src/pidfile.c
src/reallocf.c
src/timeconv.c

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Files:

src/flopen.c

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man/fparseln.3bsd

src/fparseln.c

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man/readpassphrase.3bsd

man/strlcpy.3bsd

man/strtonum.3bsd

src/arc4random.c

src/arc4random_linux.h

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
src/getentropy_linux.c
src/getentropy_osx.c
src/getentropy_solaris.c
src/getentropy_win.c
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src/inet_net_pton.c

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include/bsd/md5.h

src/hash/md5.c

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Files:

src/explicit_bzero.c
src/chacha_private.h

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Files:

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src/hash/md5hl.c
src/hash/helper.c

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1.154 libusb 1.0.23

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1.155 protobuf 3.13.0.1 r0

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* Fix compiler to not make output executable.

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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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* Tru64 support.

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* Solaris 10 + Sun Studio fixes.

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- * Slicing support for repeated scalar fields for the Python API.

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- * MS Visual Studio error format option.
- * Detect unordered_map in stl_hash.m4.

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- * gzip/zlib I/O support.

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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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- * Fixed initialization ordering problem in logging code.

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- * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- * HPUX support.

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- * 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.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- * Added CodedInputStream.getTotalBytesRead().

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- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

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

1.156 platform-python-setuptools 39.2.0

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;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%Q?f_{+T@Uo)2fgYZ
```

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)Cdk!B_M/tw|11np#_(~*'uM%S61opMG`YfRXvY[R+t[ BS=)d
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1.159 ima-evm-utils 1.1

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1.160 setools 4.3.0 r0

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1.161 pyrsistent 0.17.3 r0

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1.162 ipcalc 0.2.3 r0

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1.163 libverto 0.3.0

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1.164 yajl 2.1.0 r0

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1.165 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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1.166 paramiko 2.7.2

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1.167 ncurses-libs 6.1

1.167.1 Available under license :

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

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This package is used for testing builds of ncurses.

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1.168 libgcc 10.2.0 r0

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

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That's all there is to it!
DRuntime: Runtime Library for the D Programming Language

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```
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 * pw_const.tph
 *
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 */

@DIRECTIVES{
    auto_import_stg = false;
    skip_auto_tdl_include = true;
}@

@IMPORT_STG{
    import "constant_gen.stg";
}@

@TDL{
    import "pw_const.tdl"
}@

@CODE{

#ifdef __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.
*
* July 2005, Craig MacFarlane
*
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*
*/

```

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```

/*
* pw.h
*
* Password routines, adopted from IOX
*
* May 2000 Mark Eklund
* July 2005, Craig MacFarlane
*
* Copyright (c) 2000-2005, 2007, 2010, 2014, 2018 by cisco Systems, Inc.
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/*
* edt: * pw_type_t
*   Possible formats of saving the password in SysDB.
*
* item: PW_TYPE_CLEAR
*   The password in the clear, visible for anybody.
*
* item: PW_TYPE_1WAY
*   The password encrypted to an MD5 digest. This is not reversible.
*
* item: PW_TYPE_1WAY_2
*   The password encrypted to an sha256 digest. This is not reversible.
*
* item: PW_TYPE_2WAY
*   The Cisco type 7 password encryption. This is reversible
*   by both Cisco products and several public domain programs.
*/

```

Found in path(s):

```

* /opt/cola/permits/1267355727_1647467115.33/0/pw-tar/pw/include/pw.h

```

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

```

/*
 * pw.c
 *
 * AAA password routines, adopted from IOX
 *
 * January 2005, Naiming Shen
 * July 2005, Craig MacFarlane
 *
 * Copyright (c) 2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
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 *
 *-----
 * pw.c -- password encryption/decryption routines
 *
 * May 08 2000, Mark Eklund
 *
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 *-----
 */

```

Found in path(s):

```
* /opt/cola/permits/1267355727_1647467115.33/0/pw-tar/pw/src/pw.c
```

1.172 libreport-filesystem 2.9.5

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1.175 pcre 8.42

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Written by: Philip Hazel
Email local part: ph10
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PCRE JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
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STACK-LESS JUST-IN-TIME COMPILER

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THE C++ WRAPPER FUNCTIONS

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1.176 traceroute 2.1.0

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1.178 elfutils-default-yama-scope 0.182

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1.179 Izo 2.10 r0

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/* compr1c.h --

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Markus F.X.J. Oberhumer
<markus@oberhumer.com>
<http://www.oberhumer.com/opensource/lzo/>
*/

```
#define LZO_NEED_DICT_H 1
#include "config1c.h"
```

```
#if !defined(COMPRESS_ID)
#define COMPRESS_ID    LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif
```

```
#include "lzo1b_c.ch"
```

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



```

#define LZO_COMPRESS \
    LZO_PP_ECONCAT3(lzo1c_,COMPRESS_ID,_compress)

#define LZO_COMPRESS_FUNC \
    LZO_PP_ECONCAT3(_lzo1c_,COMPRESS_ID,_compress_func)

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

const lzo_compress_t LZO_COMPRESS_FUNC = do_compress;

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in, lzo_uint in_len,
                lzo_bytep out, lzo_uintp out_len,
                lzo_voidp wrkmem )
{
    return _lzo1c_do_compress(in,in_len,out,out_len,wrkmem,do_compress);
}

/* vim:set ts=4 sw=4 et: */

```

1.180 iniconfig 1.1.1 r0

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1.181 coreutils-common 8.30

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1.182 libpam 1.3.1 r0

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1.183 libseccomp 2.4.3

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1.184 zlib 1.2.11

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1.185 readline 8.0 r0

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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):
 componentType = NamedTypes(
 NamedType('id', Integer()),
 OptionalNamedType(
 'room', Integer().subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
)
),
 DefaultedNamedType(
 'house', Integer(0).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
```

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
```

```

```
00000: 30 07 02 01 7B 80 02 01 41
```

```
...
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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ASN.1 library for Python

=====

```
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Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.



The `pyasn1` <<https://pypi.org/project/pyasn1/>> library implements ASN.1 support in pure-Python.

## What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and 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 architecture differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

## ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies

use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

#### ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

#### Documentation

-----

```
.. toctree::
 :maxdepth: 2
```

/pyasn1/contents

#### Use case

-----

```
.. toctree::
 :maxdepth: 2
```

/example-use-case

#### Download & Install

-----

```
.. toctree::
 :maxdepth: 2
```

/download

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
.. toctree::
 :maxdepth: 1
```

/changelog

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## Getting help

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Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_ and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_ at GitHub. Alternatively, you could ask for help at `Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_ or search `pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_ mailing list archive.

## Books on ASN.1

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The pyasn1 implementation is largely based on reading up the following awesome books:

- \* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`\_ by Olivier Dubuisson
- \* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`\_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

- \* `ITU standards` <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`\_

On the other end of the readability spectrum, here is a quick and sweet write up:

\* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`  
by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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# 1.187 pyopenssl 19.1.0 r0

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## 1.188 python-requests 2.24.0 r0

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## 1.189 python-pip 9.0.3

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# 1.191 shadow-utils 4.6

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This is free software, and you are welcome to redistribute it

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# 1.193 dnf 4.4.2

## 1.193.1 Available under license :

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

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

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_cfg\_parser.c

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

```
/*
*-----
* erp_ctrl_sm.c
* G.8032 ERP Controller state machine
```

\*  
\* July 2010, Viet Nguyen  
\*  
\* Copyright (c) 2010-2020 by Cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

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

/\*  
\*-----  
\* erp\_ctrl.c - ERP Controller common code  
\*  
\* July 2010, Viet Nguyen  
\*  
\* Copyright (c) 2010-2014, 2016-2019, 2021 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

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

/\*  
\*-----  
\* erp\_ctrl\_ha.c - ERP Controller HA common code  
\*  
\* Sep 2010, Ramachandran Ramanujalu  
\*  
\* Copyright (c) 2010-2011, 2018-2019 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

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

#  
# erp\_ring.zn - Oxide rules file  
#  
# June 2018, Gangadhara Valluri  
#  
# Copyright (c) 2018 by cisco Systems, Inc.



# All rights reserved.

#

name: erp\_ring;  
type: erp\_ring\_t;  
type: erp\_instance\_t;  
type: erp\_port\_id\_t;  
type: erp\_profile\_t;  
type: erp\_instance\_stats\_t;  
type: erp\_port\_info\_t;  
type: erp\_l2req\_state\_t;  
type: erp\_raps\_encap\_t;  
type: xos\_bitlist\_handle;  
type: xos\_list\_t;  
type: xos\_list\_element\_t;

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_ring.zn

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

/\*

\*-----

\* erp\_io\_pak.c - ERP IO packet handling source file

\*

\* August 2010, Ramachandran Ramanujalu

\*

\* Copyright (c) 2010-2014 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_io\_pak.c

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

/\*

\*-----

\* erp\_io.c - ERP IO common code

\*

\* July 2010, Viet Nguyen

\*

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\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_io.c

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

```
/*
*-----
* erp_ctrl.sm - Ethernet Ring Protection Controller state machine
*
* June 2010, Viet Nguyen
*
* Copyright (c) 2010-2011, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

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

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

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

```
XOS_SM_STATE_BEGIN(A_Idle)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, A_Idle) /* wait ack */
```

```

XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, A_Idle) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf, A_Idle) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, A_Idle) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, A_Idle) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, A_Idle) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_A_Idle_ack, A_Idle)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

```

XOS\_SM\_STATE\_BEGIN(B\_Protection)

```

XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
 B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_local_clear_sf,
 B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_B_Protection_ack, B_Protection)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

```

XOS\_SM\_STATE\_BEGIN(C\_ManualSwitch)

```

XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs,
 C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
 C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, C_ManualSwitch)
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf,
 C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */

```

```

XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_C_ManualSwitch_ack,
 C_ManualSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_D_ForcedSwitch_ack,
 D_ForcedSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(E_Pending)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, E_Pending) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
 E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_wtr_expires,
 E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_wtb_expires,
 E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb,
 E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_E_Pending_ack, E_Pending)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

```

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_ctrl.sm

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

/\*

```

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

```

Found in path(s):

```

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

```

```

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

```

Found in path(s):

```

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

```

```

/*
*-----
* erp_pd_caps_stubs.c - ERP Controller stub file

```

```

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

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

```

```

/*
*-----
* erp_io.sm - Ethernet Ring Protection Controller state machine
*
* June 2010, Viet Nguyen
*
* Copyright (c) 2010-2011, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

```

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

```

```

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

```

\*/

XOS\_SM\_STATE\_BEGIN(init)

XOS\_SM\_TRANSITION(init, erp\_io\_sm\_action\_init, init) /\* wait ack \*/

XOS\_SM\_TRANSITION(ack, erp\_io\_sm\_action\_init\_ack, E\_Pending)

XOS\_SM\_STATE\_END

XOS\_SM\_STATE\_BEGIN(A\_Idle)

XOS\_SM\_TRANSITION(clear, erp\_io\_sm\_action\_null, A\_Idle) /\* wait ack \*/

XOS\_SM\_TRANSITION(fs, erp\_io\_sm\_action\_fs, A\_Idle) /\* wait ack \*/

XOS\_SM\_TRANSITION(aps\_fs, erp\_io\_sm\_action\_aps\_fs, A\_Idle) /\* wait ack \*/

XOS\_SM\_TRANSITION(local\_sf, erp\_io\_sm\_action\_local\_sf, A\_Idle) /\* wait ack \*/

XOS\_SM\_TRANSITION(local\_clear\_sf, erp\_io\_sm\_action\_null, A\_Idle) /\* wait ack \*/

XOS\_SM\_TRANSITION(aps\_sf, erp\_io\_sm\_action\_aps\_sf, A\_Idle) /\* wait ack \*/

XOS\_SM\_TRANSITION(aps\_ms, erp\_io\_sm\_action\_aps\_ms, A\_Idle) /\* wait ack \*/

XOS\_SM\_TRANSITION(ms, erp\_io\_sm\_action\_ms, A\_Idle) /\* wait ack \*/

XOS\_SM\_TRANSITION(wtr\_expires, erp\_io\_sm\_action\_null, A\_Idle) /\* wait ack \*/

XOS\_SM\_TRANSITION(wtb\_expires, erp\_io\_sm\_action\_null, A\_Idle) /\* wait ack \*/

XOS\_SM\_TRANSITION(aps\_nr\_rb, erp\_io\_sm\_action\_aps\_nr\_rb, A\_Idle) /\* wait ack \*/

XOS\_SM\_TRANSITION(aps\_nr, erp\_io\_sm\_action\_aps\_nr, A\_Idle) /\* wait ack \*/

XOS\_SM\_TRANSITION(ack, erp\_io\_sm\_action\_A\_Idle\_ack, A\_Idle)

XOS\_SM\_TRANSITION(init, erp\_io\_sm\_action\_init, init) /\* wait ack \*/

XOS\_SM\_STATE\_END

XOS\_SM\_STATE\_BEGIN(B\_Protection)

XOS\_SM\_TRANSITION(clear, erp\_io\_sm\_action\_null, B\_Protection)

XOS\_SM\_TRANSITION(fs, erp\_io\_sm\_action\_fs, B\_Protection) /\* wait ack \*/

XOS\_SM\_TRANSITION(aps\_fs, erp\_io\_sm\_action\_aps\_fs, B\_Protection) /\* wait ack \*/

XOS\_SM\_TRANSITION(local\_sf, erp\_io\_sm\_action\_local\_sf, B\_Protection) /\* wait ack \*/

XOS\_SM\_TRANSITION(local\_clear\_sf, erp\_io\_sm\_action\_local\_clear\_sf, B\_Protection) /\* wait ack \*/

XOS\_SM\_TRANSITION(aps\_sf, erp\_io\_sm\_action\_null, B\_Protection) /\* wait ack \*/

XOS\_SM\_TRANSITION(aps\_ms, erp\_io\_sm\_action\_null, B\_Protection) /\* wait ack \*/

XOS\_SM\_TRANSITION(ms, erp\_io\_sm\_action\_null, B\_Protection) /\* wait ack \*/

XOS\_SM\_TRANSITION(wtr\_expires, erp\_io\_sm\_action\_null, B\_Protection) /\* wait ack \*/

XOS\_SM\_TRANSITION(wtb\_expires, erp\_io\_sm\_action\_null, B\_Protection) /\* wait ack \*/

XOS\_SM\_TRANSITION(aps\_nr\_rb, erp\_io\_sm\_action\_null, B\_Protection) /\* wait ack \*/

XOS\_SM\_TRANSITION(aps\_nr, erp\_io\_sm\_action\_aps\_nr, B\_Protection) /\* wait ack \*/

XOS\_SM\_TRANSITION(ack, erp\_io\_sm\_action\_B\_Protection\_ack, B\_Protection)

XOS\_SM\_TRANSITION(init, erp\_io\_sm\_action\_init, init) /\* wait ack \*/

XOS\_SM\_STATE\_END

XOS\_SM\_STATE\_BEGIN(C\_ManualSwitch)

XOS\_SM\_TRANSITION(clear, erp\_io\_sm\_action\_clear, C\_ManualSwitch) /\* wait ack \*/

XOS\_SM\_TRANSITION(fs, erp\_io\_sm\_action\_fs, C\_ManualSwitch) /\* wait ack \*/

XOS\_SM\_TRANSITION(aps\_fs, erp\_io\_sm\_action\_aps\_fs, C\_ManualSwitch) /\* wait ack \*/

XOS\_SM\_TRANSITION(local\_sf, erp\_io\_sm\_action\_local\_sf, C\_ManualSwitch) /\* wait ack \*/

XOS\_SM\_TRANSITION(local\_clear\_sf, erp\_io\_sm\_action\_null, C\_ManualSwitch)

XOS\_SM\_TRANSITION(aps\_sf, erp\_io\_sm\_action\_aps\_sf, C\_ManualSwitch) /\* wait ack \*/

```

XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_C_ManualSwitch_ack, C_ManualSwitch)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_D_ForcedSwitch_ack, D_ForcedSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(E_Pending)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, E_Pending) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_wtr_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_wtb_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_E_Pending_ack, E_Pending)
XOS_SM_STATE_END

```

Found in path(s):

\* /opt/cola/permits/1267355810\_1647465320.9/0/dnf-tar/src/erp\_io.sm

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

/\*

\*-----



```
* erp_pdb.h
* G.8032 Profile Database
*
* July 2010, Mark Bilstad
*
* Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_pdb.c
```

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

```
/*
*-----
* erp_common.c - ERP common code
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2011 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_common.c
```

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

```
/*
*-----
* erp_io_sm.c
* G.8032 ERP IO state machine
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2012, 2014-2017, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_io_sm.c
```

## 1.194 libnl3 3.5.0 r0

## 1.194.1 Available under license :

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# 1.202 libssh 0.9.4

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

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## 1.203 Isof 4.91 r0

## 1.204 cpio 2.13 r0

### 1.204.1 Available under license :

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# 1.205 python-certifi 2020.6.20 r0

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: <http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#> It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.206 pynacl 1.4.0 r0

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## 1.208 ncurses 6.2 r0

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-- vile: `txtmode file-encoding=utf-8`

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Files: install-sh  
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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

On Debian systems, the complete text of the GNU General  
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-- vile: txtmode file-encoding=utf-8

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# 1.209 tar 1.30

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Version 3, 29 June 2007

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## 233+git0+fe1c5e41e6 r0

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# 1.216 nghttp2 1.41.0 r0

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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## 1.217 flask-socketio 4.3.1 r0

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# 1.218 glibc 2.28

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Constant-time SSSE3 AES core implementation.
version 0.1

By Mike Hamburg (Stanford University), 2009
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For details see https://shiftright.org/papers/vector_aes/ and
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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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# 1.224 iso8601 0.1.13 r0

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The End

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

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

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

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

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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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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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## 1.232 tar 1.32 r0

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## 1.233 python3-libcomps 0.1.11

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```
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```

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Found in path(s):

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

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

```
from setuptools import setup
```

```
with open("README.rst") as f:
```

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

```
setup(
```

```
 version="1.0.9",
```

```
 name="pretend",
```

```
 description="A library for stubbing in Python",
```

```
 long_description=readme,
```

```
 author="Alex Gaynor",
```

```
 author_email="alex.gaynor@gmail.com",
```

```
 py_modules=["pretend"],
```

```
 url="https://github.com/alex/pretend",
```

```
 license="BSD",
```

```
 classifiers=[
```

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

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

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

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

```
 "Topic :: Software Development :: Testing",
```

```
 "Programming Language :: Python :: 2.6",
```

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

```
 "Programming Language :: Python :: 3.2",
```



```
"Programming Language :: Python :: 3.3",
"Programming Language :: Python :: 3.4",
"Programming Language :: Python :: 3.5",
"Programming Language :: Python :: 3.6",
]
)
```

Found in path(s):

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

## 1.239 websocket-client 0.57.0 r0

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## 1.240 xinetd 2.3.15.4 r0

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Sensor Addition

Version: 2.1.8.9pre14a

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So, if you want, you may use any 2.N.\* (N >= 3) version string for future xinetd versions that you release. Note that I am excluding the 2.2.\* line; using that would only create confusion. Naming the next release 2.3.0

would put to rest the confusion about 2.2.1 and 2.1.8.\*.

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# 1.242 bcrypt 3.2.0 r0

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# 1.243 vcversioner 2.16.0.0 r0

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## 1.244 libssh-config 0.9.4

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## 1.245 netkit-telnet 0.17 r0

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## 1.251 idna 2.10 r0

### 1.251.1 Available under license :

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Found in path(s):

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

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

"""

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

```
def main():
```

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

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

```
 arguments = {
 'name': 'idna',
 'packages': ['idna'],
 'version': package_data['__version__'],
 'description': 'Internationalized Domain Names in Applications (IDNA)',
 'long_description': io.open("README.rst", encoding="UTF-8").read(),
 'author': 'Kim Davies',
 'author_email': 'kim@cynosure.com.au',
 'license': 'BSD-like',
```



```

'url': 'https://github.com/kjd/idna',
'classifiers': [
 'Development Status :: 5 - Production/Stable',
 'Intended Audience :: Developers',
 'Intended Audience :: System Administrators',
 'License :: OSI Approved :: BSD License',
 'Operating System :: OS Independent',
 'Programming Language :: Python',
 'Programming Language :: Python :: 2',
 'Programming Language :: Python :: 2.7',
 'Programming Language :: Python :: 3',
 'Programming Language :: Python :: 3.4',
 'Programming Language :: Python :: 3.5',
 'Programming Language :: Python :: 3.6',
 'Programming Language :: Python :: 3.7',
 'Programming Language :: Python :: 3.8',
 'Programming Language :: Python :: Implementation :: CPython',
 'Programming Language :: Python :: Implementation :: PyPy',
 'Topic :: Internet :: Name Service (DNS)',
 'Topic :: Software Development :: Libraries :: Python Modules',
 'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

```

```

setup(**arguments)

```

```

if __name__ == '__main__':
 main()

```

Found in path(s):

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

# 1.252 libsepol 3.0 r0

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## 1.253 platform-python-pip 9.0.3

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## 1.257 gdbm-libs 1.18

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```
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```

```
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```

```
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```

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## 1.258 chardet 3.0.4 r0

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## 1.259 gdbm 1.18

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# 1.260 lz4 1.9.2 r0

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

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Upstream-Contact: Doug Ledford <dledford@redhat.com>,

Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>

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

--- end ---

////

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////

```
[#mpl]
MPL Support, <boost/mpi11/mpi.hpp>
:toc:
:toc-title:
:idprefix:
```

The header `<boost/mpi11/mpi.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../.../libs/mpi[MPL] sequences.

NOTE: `mpi.hpp` is not included by `<boost/mpi11/mpi.hpp>`.

It's also possible to only enable support for `mp_list` by including `<boost/mpi11/mpi_list.hpp>`, and for `std::tuple`

by including `<boost/mp11/mpl_tuple.hpp>`. This may be required because some libraries, such as Boost.Fusion, contain their own MPL support for `std::tuple`, which conflicts with Mp11's one.

```
<!DOCTYPE html>
<html>
<head></head>
<body>
 <h3>
 Copyright Test
 </h3>
 <p class="copyright">
 1963, 1964, 1965 Jane Doe
 </p>
 <p class="copyright">
 2018 Joe Blow, John Coe
 </p>
 <p class="copyright">
 1977, 1985 Someone else
 </p>
</body>
</html>
<!-- Copyright 2018 Paul Fultz II
 Distributed under the Boost Software License, Version 1.0.
 (http://www.boost.org/LICENSE_1_0.txt)
-->
```

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```

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```

```
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```

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```

```
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```

```
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```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost/DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
 <articleinfo>
 <copyright>
 <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
 </copyright>
 <copyright>
 <year>2018</year> <holder>Joe Blow, John Coe</holder>
 </copyright>
 <copyright>
 <year>1977</year> <year>1985</year> <holder>Someone else</holder>
 </copyright>
 </articleinfo>
</article>
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```

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## 1.268 cJSON 1.7.13 r0

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# 1.269 gawk 5.1.0 r0

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Version 3, 29 June 2007

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```
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## 1.270 libsolv 0.7.16

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## 1.271 six 1.15.0

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## 1.272 more-itertools 8.5.0 r0

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## 1.273 util-linux 2.36 r0

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1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
```

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```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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x ?"U@,5 @mISmIN<GimCN7g1u|E  
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI\*mImI  
A0mImImI...  
lost+found...

;9GimCN7g

!"#\$%&'()\*+,-

./0123456789;,<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()\*+,-

./0123456789;,<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()\*+,-

./0123456789;,<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()\*+,-

./0123456789;,<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@

WEV[B "1

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## 1.274 mtd-utils 2.1.2 r0

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Version 2, June 1991

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```

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

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## 1.275 basesystem 11

### 1.275.1 Available under license :

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

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

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

Name: basesystem

Version: 11

Release: 5%{?dist}

License: Public Domain

Group: System Environment/Base

Requires(pre): setup filesystem

BuildArch: noarch

```
%description
```

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

```
%prep
```

```
%build
```

```
%install
```

```
%clean
```

%files

%defattr(-,root,root,-)

%changelog

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

- adjust description

- adjust summary

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

- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_28\\_Mass\\_Rebuild](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](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](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](https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild)

\* Thu Jul 09 2015 Ondrej Vasik <ovasik@redhat.com> 11-1

- automatically determine OS name at build time (#1195396)

\* Wed Jun 17 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-11

- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_23\\_Mass\\_Rebuild](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](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](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](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](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](https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild)

\* Thu Jun 23 2011 Ondrej Vasik <ovasik@redhat.com> 10.0-5

- fix FTBFS typo (#715640), add disttag

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

- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_15\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild)

\* Fri Jul 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-3

- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_12\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild)
- \* Mon Feb 23 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-2
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_11\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild)
- \* Mon Oct 20 2008 Phil Knirsch <pknirsch@redhat.com> 10.0-1
- Bump version and rebuild for Fedora 10 (#451289)
- \* Fri Mar 02 2007 Phil Knirsch <pknirsch@redhat.com> - 8.1-1
- Cleanup per package review (#225608)
- \* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.0-5.1.1
- rebuild
- \* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
- rebuilt
- \* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com>
- rebuilt
- \* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt
- \* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- 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

# 1.276 cryptography 3.2 r0

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# 1.281 util-linux 2.32.1

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H:Oed 18uyMQ9|FO6

87I8.mhGl^eb\_X/UQKuB

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)Cdk!B_M\|tw|11np#_(~*uM%S61opMG`YfRXvY[R+t[BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[BS=)d
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```
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```

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//http-parser

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```

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#####
```

/\*

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# 1.283 libnsI2 1.3.0 r0

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# 1.284 xz-libs 5.2.4

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# 1.285 findutils 4.6.0

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Version 3, 29 June 2007

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# 1.290 systemd 239

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

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Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
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Bos, Sander  
Bostley, P.J.  
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Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
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Cheloha, Scott  
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Gailly, Jean-loup  
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Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
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Jover, Guillem  
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Lobbes, Phillip E.  
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MacKenzie, David J.  
McLaughlin, Tom  
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Meskes, Michael  
Michael, David  
Miller, Todd C.  
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Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Pasteleurs, Frederic  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
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Reid, Steve  
Richards, Matt  
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Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
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Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
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Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
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Tarrall, Robert  
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Torek, Chris  
Tucker, Darren  
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Winiger, Gary  
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The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe

Cho, Seong-ho  
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Karvonen, Jorma  
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Sendn, Abel  
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Tomat, Fbio  
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Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

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

Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* 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.

Author: Julio Merino <jmmv84@gmail.com>

\* 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.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

<!--

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-->

<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

```

<xsl:template name="isc.copyright.format">
 <xsl:param name="text"/>
 <xsl:value-of select="$isc.copyright.leader"/>
 <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
 <xsl:text>
</xsl:text>
 <xsl:variable name="rest" select="substring-after($text, '
')"/>
 <xsl:if test="translate($rest, '	 ', ' ')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="$rest"/>
 </xsl:call-template>
 </xsl:if>
</xsl:template>

```

```

<xsl:variable name="isc.copyright.text">
 <xsl:text>
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 file, You can obtain one at http://mozilla.org/MPL/2.0/.
 </xsl:text>
</xsl:variable>

```

```

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
 <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
- mode: sgml
- End:

-->

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```
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## 1.301 strace 5.8 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  
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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

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00INDEX               - This file

tsu-notify.mbox       - Notification sent per U.S. export regulations

copy/ - Copyright info & public-domain dedications  
From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008  
X-Maildir-Dup-Checked: Yes  
Return-Path: <dlitz@dlitz.net>  
X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net  
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D  
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA  
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)  
Received: (vmmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)  
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])  
by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088  
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)  
Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk  
[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS  
15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;  
Thu, 28 Aug 2008 01:45:02 +0100  
To: crypt@bis.doc.gov,  
enc@nsa.gov,  
web\_site@bis.doc.gov,  
pycrypto@lists.dlitz.net,  
PYTHON-CRYPTO@NIC.SURFNET.NL,  
dlitz@dlitz.net  
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net  
designates 64.5.53.201 as permitted sender) identity=mailfrom;  
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;  
helo=goedel.dlitz.net; mechanism=-all; envelope-from=dlitz@dlitz.net;  
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by  
m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id  
taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100  
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])  
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1  
for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)  
Received: by rivest.dlitz.net (Postfix, from userid 1000)  
id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)  
Received: by rivest.dlitz.net (tmlda-sendmail, from uid 1000);  
Wed, 27 Aug 2008 20:42:54 -0400  
Date: Wed, 27 Aug 2008 20:42:54 -0400  
Cc: post@stamper.itconsult.co.uk  
Subject: PyCrypto TSU NOTIFICATION  
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed



Content-Disposition: inline  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
X-Delivery-Agent: TMDA/1.1.9 (Jura)  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
X-DNSBL: 0  
Status: O  
Content-Length: 2182  
Lines: 65

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

```


This is a proof of posting certificate from
stamper.itconsult.co.uk certifying that a user
claiming to be:-
dlitz@dlitz.net
requested that this message be sent to:-
crypt@bis.doc.gov
enc@nsa.gov
web_site@bis.doc.gov
pycrypto@lists.dlitz.net
PYTHON-CRYPTO@NIC.SURFNET.NL
dlitz@dlitz.net

This certificate was issued at 00:45 (GMT)
on Thursday 28 August 2008 with reference 0520978

CAUTION: while the message may well be from the sender
indicated in the "From:" header, the sender
has NOT been authenticated by this service

For information about the Stamper service see
http://www.itconsult.co.uk/stamper.htm

#####
```

SUBMISSION TYPE: TSU  
SUBMITTED BY: Dwayne C. Litzenberger  
SUBMITTED FOR: Dwayne C. Litzenberger

POINT OF CONTACT: Dwayne C. Litzenger  
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. Litzenger <dlitz@dlitz.net>

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

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

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

Version: 2.6.3i

Charset: noconv

Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr  
d+q0E7eE8VtnvviUcTAR9o27yvyzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t  
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sxbzCOpjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQlOhJQ6o  
XYhY+HbRjsD741/GSpOt9IIN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/  
W/pqSSIPkwmbhlPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==  
=3oIX

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

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

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

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

To: Paul Swartz <paulswartz@gmail.com>

Subject: PyCrypto license clarification

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

MIME-Version: 1.0

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

Content-Disposition: inline

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

Status: RO

Content-Length: 2631

Hi Paul,

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

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

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

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

--amk (www.amk.ca)

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

X-Maildir-Dup-Checked: Yes

Return-Path: <paulswartz@gmail.com>

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

Delivered-To: dwon@rivest.dlitz.net

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

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

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

Received: from localhost (localhost [127.0.0.1])

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

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

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

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

Received-SPF: pass (gmail.com ... \_spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159

Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])

by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066

for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)

Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3

for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)

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

d=gmail.com; s=gamma;

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

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

:content-transfer-encoding;

bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAypApWcc=;

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Vn55qlIqTdom4e9zlUEE6MwZo9kqi/Qw0L/SLib0DIQeNqo/eHYqPmuVswltaYwNAyMJ

Y9++76rPGzqYdALsfvsmwv7Q3/bEmjVTr0tQE=

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

d=gmail.com; s=gamma;

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

:content-type:content-transfer-encoding;

b=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyyig3EFT6Nv6

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lornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=

MIME-Version: 1.0

Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,

03 Aug 2009 09:14:03 -0700 (PDT)

In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>

References: <20090803014825.GA1326@rivest.dlitz.net>

From: Paul Swartz <paulswartz@gmail.com>

Content-Length: 1450

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

[illegible]

AIM: z3penguin

From dlitz@dlitz.net Mon Aug 3 14:35:01 2009  
Date: Mon, 3 Aug 2009 14:35:01 -0400  
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
To: Paul Swartz <paulswartz@gmail.com>  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>  
References: <20090803014825.GA1326@rivest.dlitz.net>  
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1; format=flowed  
Content-Disposition: inline  
Content-Transfer-Encoding: 8bit  
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 1250

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

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

>> Hi Paul,

>>

>> 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?

>>

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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.

>> =====

>

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

Perfect! Thanks for the quick response!

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

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

From dlitz@dlitz.net Sat 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/>.

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```
=====
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warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

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

--amk (www.amk.ca)

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

X-Maildir-Dup-Checked: Yes

Return-Path: <barry@python.org>

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

Delivered-To: dwon@rivest.dlitz.net

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

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

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

Received: from localhost (localhost [127.0.0.1])

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

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

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

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

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

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

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

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

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

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

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

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

From: Barry Warsaw <barry@python.org>



To: Dwayne C. Litzenger <dlitz@dlitz.net>  
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>  
Content-Type: text/plain; charset=US-ASCII; format=flowed; delp=yes  
Content-Transfer-Encoding: quoted-printable  
Mime-Version: 1.0 (Apple Message framework v930.3)  
Subject: Re: PyCrypto license clarification  
Date: Mon, 2 Mar 2009 11:29:34 -0500  
References: <20090301024509.GA13195@rivest.dlitz.net>  
X-Pgp-Agent: GPGMail d55 (v55, Leopard)  
X-Mailer: Apple Mail (2.930.3)  
Status: RO  
Content-Length: 869

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

Hash: SHA1

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

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

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

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

Python library.

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

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

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,  
Barry

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

Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk  
evkJnSJQAcVHIznVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9Ilet7PaD9VSYgn3ra5  
gElwI2DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjbwDRA3wItOrH7  
SK4w9VBJtfY=3D  
=3DQduY

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

Date: Sun, 23 Nov 2008 15:54:35 -0800  
From: Wim Lewis <wiml@h4h.org>  
Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Cc: Wim Lewis <wiml@hnhh.org>  
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hnhh.org>

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

Hash: SHA1

On November 23, 2008, you wrote:

>Hi Wim,

>

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

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

>

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

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

>PyCrypto, with the following notice?

>

> =====

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

> =====

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

Wim.

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

Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B  
FektbDOzkxgc5580MGGeX/MVn8aw+1BHg0YD85gsntIDzkcQtb+BR/xAvJ5zKyA  
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKoBx+/5+t1LJtBcZ  
wrPEa9Oui9s=  
=zSY9

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

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

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

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

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

Subject: PyCrypto license clarification

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



--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  
Guide to Protecting Code\_, by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable=20  
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=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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any purpose whatsoever. No rights are reserved.

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=  
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Regards,  
- Dwayne

--=20

Dwayne C. Litzenger <dlitz@dlitz.net>

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

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

--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)

iEYEAARECAAYFAkko52IACgkQHBBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ  
yloAn33a3ZjkteyJaTbzEqImOEw8JGpf  
=aBEW

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

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008  
X-Maildir-Dup-Checked: Yes  
Return-Path: <amk@amk.ca>  
X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net  
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D  
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id D632D10111  
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)  
Received: (vmmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)  
Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])  
by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105  
for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)  
Received: (gmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000  
Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])  
(envelope-sender <amk@amk.ca>)  
by mail5.sea5.speakeasy.net (gmail-ldap-1.03) with AES256-SHA encrypted SMTP  
for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000  
Date: Sun, 23 Nov 2008 07:51:34 -0500  
From: "A.M. Kuchling" <amk@amk.ca>  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Subject: Re: PyCrypto license clarification  
Message-ID: <20081123125134.GA21239@amk.local>  
Reply-To: amk@amk.ca  
References: <20081123051722.GA29253@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline  
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>  
User-Agent: Mutt/1.5.13 (2006-08-11)  
Status: RO  
Content-Length: 537  
Lines: 15

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

The intention is that it be public domain.

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

You may.

--amk

From dlitz@dlitz.net Sat Feb 28 23:24:14 2009

Date: Sat, 28 Feb 2009 23:24:14 -0500

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

To: Jeethu Rao <jeethurao@gmail.com>

Subject: PyCrypto license clarification

Message-ID: <20090301042414.GA15122@rivest.dlitz.net>

MIME-Version: 1.0

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

Content-Disposition: inline

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

Status: RO

Content-Length: 2513

Hi Jeethu,

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

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

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

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

--amk

([www.amk.ca](http://www.amk.ca))

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

Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

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

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

Regards,  
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

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

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

X-Maildir-Dup-Checked: Yes

Return-Path: <jeethurao@gmail.com>

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

Delivered-To: dwon@rivest.dlitz.net

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

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

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

Received: from localhost (localhost [127.0.0.1])

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

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

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

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

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

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

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

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

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

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

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

d=gmail.com; s=gamma;

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

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

bh=YWy9U32WCU/ksRqukHwaOZyJQBU4Yvt5mI20U6mI/g=;

b=oMjI22IlxYiJKge2zNjW3rRiUi9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY  
B5E6VQuGVEyzBbNsctyVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas  
L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=  
DomainKey-Signature: a=rsa-sha1; c=noaws;  
d=gmail.com; s=gamma;  
h=mime-version:in-reply-to:references:date:message-id:subject:from:to  
:content-type;  
b=Ym7CStuDEfJKay1AJyWZkZmJA1lnTcwCG6akBHAXLld8ht6PFcmlsffzZG8hJCIVJ8  
vljqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrS24zikHfpSSd5GFogzXaLVvGVH8p  
bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=  
MIME-Version: 1.0  
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;  
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)  
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>  
References: <20090301042414.GA15122@rivest.dlitz.net>  
Date: Mon, 9 Mar 2009 02:57:54 +0530  
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>  
Subject: Re: PyCrypto license clarification  
From: Jeethu Rao <jeethurao@gmail.com>  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054  
Status: RO  
Content-Length: 7668

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

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256  
module, IIRC).  
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao  
PS: Apologies for the delay in my response.  
I don't really check this email address all that often,  
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <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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```

> "distribute and use", but not "modify".)
>
> =====
> Distribute and use freely; there are no restrictions on further
> dissemination and usage except those imposed by the laws of your
> country of residence. This software is provided "as is" without
> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> =====
>
> Incorporating the code into commercial products is permitted; you do
> not have to make source available or contribute your changes back
> (though that would be nice).
>
> --amk (www.amk.ca)
>
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> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.
> =====
>
> Regards,
> - Dwayne
>
> --
> Dwayne C. Litzenger <dlitz@dlitz.net>
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>
--

```





## Developer's Certificate of Origin 1.1

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

- (a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or
- (b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or
- (c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.
- (d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

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

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

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

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

=== EOF ===

From dlitz@dlitz.net Mon May 4 22:49:14 2009

Date: Mon, 4 May 2009 22:49:14 -0400

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

To: Joris Bontje <joris@bontje.nl>

Subject: PyCrypto license clarification

Message-ID: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2553

Hi Joris,

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

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=====

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

--amk (www.amk.ca)

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=====

Regards,

- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

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

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

X-Maildir-Dup-Checked: Yes

Return-Path: <joris@bontje.nl>

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

Delivered-To: dwon@rivest.dlitz.net

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

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

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 2315B40583

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)

Received: (vmmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600

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

Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97

Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])

by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C

for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30 -0600 (CST)

Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000

Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])

(envelope-sender <joris@bontje.nl>)

by 10.170.1.96 (qmail-ldap-1.03) with SMTP

for <>; 5 May 2009 07:08:25 -0000

Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)

id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)

Received: from firewall66.interaccess.nl (firewall66.interaccess.nl

[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;

Tue, 05 May 2009 09:08:25 +0200

Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>

Date: Tue, 05 May 2009 09:08:25 +0200

From: joris@bontje.nl

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

Subject: Re: PyCrypto license clarification

References: <20090505024914.GA9219@rivest.dlitz.net>

In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain;  
charset=ISO-8859-1;  
format="flowed"  
Content-Disposition: inline  
Content-Transfer-Encoding: 7bit  
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)  
Status: RO  
X-Status: A  
Content-Length: 3488

Hi Dwayne,

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

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

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

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

Regards,  
Joris

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

> Hi Joris,  
>  
> I am the new maintainer of the Python Cryptography Toolkit, and I am  
> working on a new release at <http://www.pycrypto.org/>.  
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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  
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> (though that would be nice).

>

> --amk (www.amk.ca)

>

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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. Litzengerger <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. Litzengerger" <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.gs1ps7hg08wwwok@www.webmail.vuurwerk.nl>



MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
In-Reply-To: <20090505090825.gsqlips7hg08wwwok@www.webmail.vuurwerk.nl>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3863

Excellent! Thank you!

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

> Hi Dwayne,  
>  
> Thanks for taking over the PyCrypto library and putting in the required  
> effort to keep this going.  
> I was very excited to read that it is now one of the installed libraries  
> for Google AppsEngine!  
>  
> You have my full permission to dedicate all my contributions to PyCrypto to  
> the public domain with your suggested notice:

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

>  
>  
> Regards,  
> Joris  
>  
> Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

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>> dissemination and usage except those imposed by the laws of your

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

>> 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

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>> --amk (www.amk.ca)

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

>

>

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

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

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

From dlitz@dlitz.net Sat Apr 18 09:14:20 2009

Date: Sat, 18 Apr 2009 09:14:20 -0400

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

To: Mark Moraes <moraes@computer.org>

Subject: PyCrypto license clarification

Message-ID: <20090418131419.GA14494@rivest.dlitz.net>

MIME-Version: 1.0

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

Content-Disposition: inline

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

Status: RO

Content-Length: 2635

Hi Mark,

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

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

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Distribute and use freely; there are no restrictions on further
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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](http://www.amk.ca))

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Dwayne C. Litzenger <dlitz@dlitz.net>

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

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

X-Maildir-Dup-Checked: Yes

Return-Path: <markmoraes@yahoo.com>

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

Delivered-To: dwon@rivest.dlitz.net

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

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

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

Received: from localhost (localhost [127.0.0.1])

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

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

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

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

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

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

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

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

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

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

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

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

b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3s  
EY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB  
2aU=

DomainKey-Signature:a=rsa-sha1; q=dns; c=noaws;  
s=s1024; d=yahoo.com;  
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;  
b=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj7  
63caOAlo8Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j  
eo=;  
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>  
X-YMail-OSG:  
FrK8aWMVM1mFJtLpMGBUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOlGCX6oVnG3u.CgqzAffY  
4vZSnfTT8wnCkzZNZ\_g6k.XUc3ipo\_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVyp50clsUFS  
Hzf7Zbpa8P1Yoe\_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X  
onq8h\_TmzX9g84Bin9g\_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv\_bj\_Ghxx--  
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT  
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1  
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)  
From: M Moraes <markmoraes@yahoo.com>  
Reply-To: moraes@computer.org  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Status: RO  
X-Status: A  
Content-Length: 3222

Hi Dwayne.

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

Regards,  
Mark.

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

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>  
> Subject: PyCrypto license clarification  
> To: "Mark Moraes" <moraes@computer.org>  
> Date: Saturday, April 18, 2009, 9:14 AM  
> Hi Mark,  
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> -- Dwayne C. Litzenberger <dlitz@dlitz.net>

> Key-signing key - 19E1

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

>

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

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

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

To: moraes@computer.org

Subject: Re: PyCrypto license clarification

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

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

MIME-Version: 1.0

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

Content-Disposition: inline

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

X-Primary-Address: dlitz@dlitz.net

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

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

id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);

preference=unprotected

X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3677

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

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

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>Hi Dwayne.  
>  
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>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
>>  
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--  
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Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45  
Date: Mon, 16 Feb 2009 12:58:00 -0800  
From: Robey Pointer <robey@lag.net>  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)  
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

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

Hash: SHA1

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

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> any purpose whatsoever. No rights are reserved.  
>  
> =  
> =====  
>

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

robey

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

Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ  
SH8AoLJgaq1Ili7/ZYDc+/Cd8VO0xLbr  
=Mv6g

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

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

~~~~~

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

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

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

1. Obtaining explicit permission from the original contributors to  
dedicate their contributions to the public domain if they have not

already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

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

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever.  
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Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

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

00INDEX      This file

LICENSE.orig    Original (deprecated) license for the Python Cryptography Toolkit

## 1.303 libpcap 1.9.1 r0

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## 1.304 busybox 1.32.0 r0

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[jseward@bzip.org](mailto:jseward@bzip.org)

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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## 1.309 parted 3.3 r0

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Version 3, 29 June 2007

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## 1.311 glib 2.56.4

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Version 2.1, February 1999

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# 1.312 zstd 1.4.5 r0

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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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# 1.318 python36 3.6.8

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

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

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

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

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

|               |       |          |     |     |
|---------------|-------|----------|-----|-----|
| 2.1.2         | 2.1.1 | 2002     | PSF | yes |
| 2.1.3         | 2.1.2 | 2002     | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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```
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```
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## 1.321 markupsafe 1.1.1 r0

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Metadata-Version: 1.2

Name: MarkupSafe

Version: 1.1.1

Summary: Safely add untrusted strings to HTML/XML markup.

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

Author: Armin Ronacher

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

Maintainer: The Pallets Team

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

License: BSD-3-Clause

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

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

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

Description: MarkupSafe

=====

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

## Installing

-----

Install and update using `pip` \_:

.. code-block:: text

```
pip install -U MarkupSafe
```

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

## Examples

-----

.. code-block:: pycon

```
>>> from markupsafe import Markup, escape
>>> # escape replaces special characters and wraps in Markup
>>> escape('<script>alert(document.cookie);</script>')
Markup(u'<script>alert(document.cookie);</script>')
>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup('Hello')
Markup('hello')
>>> escape(Markup('Hello'))
Markup('hello')
>>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
>>> # methods and operators escape their arguments
>>> template = Markup("Hello %s")
>>> template % "'World'"
Markup('Hello "World"')
```

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-----

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## Links

-----

- \* Website: <https://palletsprojects.com/p/markupsafe/>
- \* Documentation: <https://markupsafe.palletsprojects.com/>
- \* License: `BSD-3-Clause <<https://github.com/pallets/markupsafe/blob/master/LICENSE.rst>>`\_
- \* Releases: <https://pypi.org/project/MarkupSafe/>
- \* Code: <https://github.com/pallets/markupsafe>
- \* Issue tracker: <https://github.com/pallets/markupsafe/issues>
- \* Test status:
  
- \* Linux, Mac: <https://travis-ci.org/pallets/markupsafe>
- \* Windows: <https://ci.appveyor.com/project/pallets/markupsafe>
  
- \* Test coverage: <https://codecov.io/gh/pallets/markupsafe>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content

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

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

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

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\* /opt/cola/permits/1294739436\_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/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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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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## 1.328 sed 4.5

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# 1.331 six 1.15.0 r0

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# 1.332 libnss-nisplus 1.3+git0+116219e215 r0

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

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## 1.333 pyparsing 2.4.7 r0

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## 1.337 centos-gpg-keys 8

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## 1.338 pathlib 2.3.5 r0

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```
* /opt/cola/permits/1294739539_1648246950.6/0/pathlib2-2-3-5-1-tar-gz/pathlib2-2.3.5/tests/test_pathlib2.py
* /opt/cola/permits/1294739539_1648246950.6/0/pathlib2-2-3-5-1-tar-gz/pathlib2-2.3.5/pathlib2/__init__.py
* /opt/cola/permits/1294739539_1648246950.6/0/pathlib2-2-3-5-1-tar-gz/pathlib2-2.3.5/setup.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](mailto: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 (`mcbs`)

has only poor support for non-ascii characters,

and can silently replace non-ascii characters without warning.

For example, `u".encode(sys.getfilesystemencoding())` results in `????``

which is obviously completely useless.



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

```
.. |travis| image:: https://travis-ci.org/mcmTROFFAES/pathlib2.png?branch=develop
 :target: https://travis-ci.org/mcmTROFFAES/pathlib2
 :alt: travis-ci

.. |appveyor| image:: https://ci.appveyor.com/api/projects/status/baddx3rpet2wyi2c?svg=true
 :target: https://ci.appveyor.com/project/mcmTROFFAES/pathlib2
 :alt: appveyor

.. |codecov| image:: https://codecov.io/gh/mcmTROFFAES/pathlib2/branch/develop/graph/badge.svg
 :target: https://codecov.io/gh/mcmTROFFAES/pathlib2
 :alt: codecov
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

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Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

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

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# 1.341 gawk 4.2.1

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```
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#+STARTUP: showall

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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|---------|-----------------|------|-------|-------------------------|
| 2.5     | 2.4             | 2006 | PSF   | yes                     |
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| 2.5.3   | 2.5.2           | 2008 | PSF   | yes                     |
| 2.6     | 2.5             | 2008 | PSF   | yes                     |
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| 2.6.2   | 2.6.1           | 2009 | PSF   | yes                     |
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| 2.6.4   | 2.6.3           | 2009 | PSF   | yes                     |
| 2.6.5   | 2.6.4           | 2010 | PSF   | yes                     |

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|-------|-------|------|-----|-----|
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
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| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
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| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
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Python was created in the early 1990s by Guido van Rossum at Stichting  
Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands  
as a successor of a language called ABC. Guido remains Python's  
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for



National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

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| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
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| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
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| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |

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|-------|-------|------|-----|-----|
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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On all platforms, Nmap is normally linked with:

- o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.  
<http://www.tcpdump.org/>
- o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP\_MODIFICATIONS.  
<http://code.google.com/p/libdnet/>
- o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.  
<http://www.pcre.org/>
- o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow



running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.

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

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

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

- o LIBLINEAR. Used for IPv6 OS classification.

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

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

- o APR (Apache Portable Runtime). Used by libsvn. <http://apr.apache.org/>

On Windows only, Nmap uses:

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

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

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:

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

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

The Windows and Mac OS X binary packages include bundled versions of:

- o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.

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

- o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.

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

- o libgailutil: Accessibility support for GTK+.

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

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

- o zlib and bzip2: compression libraries.

<http://www.zlib.org/> <http://www.bzip.org/>

- o Expat: XML parser library.

<http://expat.sourceforge.net/>

- o fontconfig: font configuration library.

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

- o FreeType: font rendering library.

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

- o libiconv. Under the GNU LGPL 2.  
<http://www.gnu.org/software/libiconv/>
- o libintl: gettext translation facilities. Under the GNU LGPL 2 and 2.1.  
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The Mac OS binary packages also include:

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

University of Cambridge Computing Service,  
Cambridge, England.

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# 1.351 inotify-tools 3.20.2.2 r0

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## 1.353 socketio 4.6.0 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.

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| 1.6            | 1.5.2           | 2000      | CNRI       | no                      |
| 2.0            | 1.6             | 2000      | BeOpen.com | no                      |
| 1.6.1          | 1.6             | 2001      | CNRI       | yes (2)                 |
| 2.1            | 2.0+1.6.1       | 2001      | PSF        | no                      |
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October 1996

April 1997

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# 1.356 rfc3987 1.3.8 r0

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## 1.366 elfutils-libs 0.182



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## 1.369 python-dbus 1.2.16 r0

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[The licence continues]

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- \* @version 3.0 (December 2000)

- \*

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- \*

- \* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

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# 1.376 libmnl 1.0.4 r0

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

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# 1.381 python 3.8.5 r0

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

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

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

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

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

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# 1.394 libunistring 0.9.10 r0

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# 1.408 keyutils-libs 1.5.10

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```

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## 1.409 libzstd 1.4.4

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## 1.416 libusb 1.0.23 r0

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## 1.419 krb5-libs 1.18.2

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- lib/krb5/kadm5/kadm\_host\_srv\_names.c
- lib/krb5/kdb/kdb\_convert.c
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lib/libgss/g\_process\_context.c  
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lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

- lib/gssapi/generic/gssapi\_err\_generic.et
- lib/gssapi/mechglue/g\_accept\_sec\_context.c
- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c
- lib/gssapi/mechglue/g\_imp\_name.c
- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c
- lib/gssapi/mechglue/g\_rel\_buffer.c
- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
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- lib/gssapi/mechglue/g\_unseal.c
- lib/gssapi/mechglue/g\_userok.c
- lib/gssapi/mechglue/g\_utils.c

lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

include/iprof\_hdr.h  
kadmin/server/iprof\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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Version 3, 29 June 2007

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```
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```
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```

```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.429 which 2.21 r3

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Version 3, 29 June 2007

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## 1.432 pyang 2.2.1 r0

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