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

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

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

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

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from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

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doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
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procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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

```
<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.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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### 1.8 cracklib 2.9.6

#### 1.8.1 Available under license:

```
-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------
```

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li... [mailto:cracklib-devel-bounces@li...]
> On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.
 Unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which IMO is just wrong. It isn't the place of a library to dictate to application writers what license they should be using. Thus LGPL-2.1 enters to fill this void.

Mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysender
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec
> directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what
> it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... I didn't notice the license
> change until it was mentioned in the latest notes.
> >=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isn't the
> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > 
> > I am sympathetic. Guys, what do you reckon?
> > 
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
My apologies for not chiming in in anything resembling a reasonable timeframe.

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

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

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>>
>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>
> yes. go for it. thanks++

-a

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

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
> >
> yes. go for it. thanks++

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

-------------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

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

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

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.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 ESMTPT id l91Gxtp020623 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 ESMTPT id 2C7734D311 for <nneul@neulinger.org>; Mon, 01 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=fixed
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

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Version 2.1, February 1999

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

That's all there is to it!

1.9 curl 7.63.0

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==============
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1.10 cyrus-sasl 2.1.26

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 * Rob Earhart
 * Rob Siemborski
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1.17 dnsmasq 2.79

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# NOTE: Building the i18n targets requires GNU-make

# Variables you may well want to override.
PREFIX = /usr/local
BINDIR = $(PREFIX)/sbin
MANDIR = $(PREFIX)/share/man
LOCALEDIR = $(PREFIX)/share/locale
BUILDDIR = $(SRC)
DESTDIR =
CFLAGS = -Wall -W -O2
LDFLAGS =
COPTS =
RPM_OPT_FLAGS =
LIBS =

#################################################################
# Variables you might want to override.

PKG_CONFIG = pkg-config
INSTALL = install
MSGMERGE = msgmerge
MSGFMT = msgfmt
XGETTEXT = xgettext

SRC = src
PO = po
MAN = man

#################################################################
# pmake way. (NB no spaces to keep gmake 3.82 happy)

top!=pwd
# GNU make way.

top?=$(CURDIR)

dbus_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DBUS $(PKG_CONFIG) --cflags dbus-1`
dbus_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DBUS $(PKG_CONFIG) --libs dbus-1`
idn_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_IDN $(PKG_CONFIG) --cflags libidn`
idn_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_IDN $(PKG_CONFIG) --libs libidn`
idn2_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LIBIDN2 $(PKG_CONFIG) --cflags libidn2`
idn2_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LIBIDN2 $(PKG_CONFIG) --libs libidn2`
ct_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_CONNTRACK $(PKG_CONFIG) --cflags libnetfilter_conntrack`
ct_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_CONNTRACK $(PKG_CONFIG) --libs libnetfilter_conntrack`
lua_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LUASCRIPT $(PKG_CONFIG) --cflags lua5.2`
lua_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LUASCRIPT $(PKG_CONFIG) --libs lua5.2`
nettle_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC $(PKG_CONFIG) --cflags nettle hogweed`
nettle_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC $(PKG_CONFIG) --libs nettle hogweed`
gmp_libs = 'echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC NO_GMP --copy -lgmp'
sunos_libs = 'if uname | grep SunOS >/dev/null 2>&1; then echo -ls -lnsl -lposix4; fi'
version = DVERSION="" $(top)/bld/get-version $(top)"

sum?=$(shell $(CC) -DDNSMASQ_COMPILE_OPTS $(COPTS) -E $(top)/$(SRC)/dnsmasq.h | ( md5sum 2>/dev/null || md5 ) | cut -f 1 -d ' ')
sum!=$(CC) -DDNSMASQ_COMPILE_OPTS $(COPTS) -E $(top)/$(SRC)/dnsmasq.h | ( md5sum 2>/dev/null || md5 ) | cut -f 1 -d '

copts_conf = .copts_$($sum)

objs = cache.o rfc1035.o util.o option.o forward.o network.o 
  dnsmasq.o dhcp.o lease.o rfc2131.o netlink.o dbus.o bpf.o 
  helper.o tftp.o log.o conntrack.o dhcp6.o rfc3315.o 
  dhcp-common.o outpacket.o radv.o slaac.o auth.o ipset.o 
  domain.o dnssec.o blockdata.o tables.o loop.o inotify.o 
  poll.o rrfilter.o eds0.o arp.o crypto.o

hdrs = dnsmasq.h config.h dhcp-protocol.h dhcp6-protocol.h 
  dns-protocol.h radv-protocol.h ip6addr.h

all : $(BUILDDIR)
@cd $(BUILDDIR) & & $(MAKE) 
  top="/" $(top)" 
  build_cflags="$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)" 
  build_libs="/$(dbus_libs) $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)" 
  -f $(top)/Makefile dnsmasq

mostly_clean :
rm -f $(BUILDDIR)/*.mo $(BUILDDIR)/*.pot
rm -f $(BUILDDIR)/.copts_* $(BUILDDIR)/*.o $(BUILDDIR)/dnsmasq.a $(BUILDDIR)/dnsmasq

clean : mostly_clean
rm -f $(BUILDDIR)/dnsmasq_baseline
rm -f core */core
rm -f *~ contrib/*/*~ */*~

install : all install-common

install-common :
$(INSTALL) -d $(DESTDIR)/$(BINDIR) -d $(DESTDIR)/$(MANDIR)/man8
$(INSTALL) -m 644 $(MAN)/dnsmasq.8 $(DESTDIR)/$(MANDIR)/man8
$(INSTALL) -m 755 $(BUILDDIR)/dnsmasq $(DESTDIR)/$(BINDIR)

all-i18n : $(BUILDDIR)
@cd $(BUILDDIR) & & $(MAKE) 
  top="/" $(top)" 
  i18n=DLOCALEDIR=\"$(LOCALEDIR)\" 
  build_cflags="/$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)" 

build_libs="$(dbus_libs) $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)" \
-f $(top)/Makefile dnsmasq
for f in `cd $PO; echo *.po`; do \n cd $top && cd $(BUILDDIR) && $(MAKE) top="$(top)" -f $(top)/Makefile $$f%.po.mo; \n done

install-i18n : all-i18n install-common
cd $(BUILDDIR); $(top)/bld/install-mo $(DESTDIR)$(LOCALEDIR) $(INSTALL)
cd $(MAN); ../bld/install-man $(DESTDIR)$(MANDIR) $(INSTALL)

merge :
@cd $(BUILDDIR) && $(MAKE) top="$(top)" -f $(top)/Makefile dnsmasq.pot
for f in `cd $PO; echo *.po`; do \n echo -n msgmerge $(PO)/$$f && $(MSGMERGE) --no-wrap -U $(PO)/$$f $(BUILDDIR)/dnsmasq.pot; \n done

# Canonicalise .po file.
%.po :
@cd $(BUILDDIR) && $(MAKE) -f $(top)/Makefile dnsmasq.pot
mv $(PO)/$*.po $(PO)/$*.po.orig && $(MSGMERGE) --no-wrap $(PO)/$*.po.orig $(BUILDDIR)/dnsmasq.pot >$(PO)/$*.po;

$(BUILDDIR):
mkdir -p $(BUILDDIR)

# rules below are helpers for size tracking
baseline : mostly_clean all
@cd $(BUILDDIR) && \n mv dnsmasq dnsmasq_baseline

bloatcheck : $(BUILDDIR)/dnsmasq_baseline mostly_clean all
@cd $(BUILDDIR) && \n $(top)/bld/bloat-o-meter dnsmasq_baseline dnsmasq; \n size dnsmasq_baseine dnsmasq

# rules below are targets in recursive makes with cwd=$(BUILDDIR)

$(copts_conf): $(hdrs)
@rm -f *.o .copts_*
@touch $@

$(objs:.o=.c) $(hdrs):
ln -s $(top)/$(SRC)/$@ .

$(objs): $(copts_conf) $(hdrs)

.c.o:
$(CC) $(CFLAGS) $(COPTS) $(i18n) $(build_cflags) $(RPM_OPT_FLAGS) -c $<

dnsmasq : $(objs)
$(CC) $(LDFLAGS) -o $@ $(objs) $(build_libs) $(LIBS)

dnsmasq.pot : $(objs:.o=.c) $(hdrs)
$(XGETTEXT) -d dnsmasq --foreign-user --omit-header --keyword=_ -o $@ -i $(objs:.o=.c)

%.mo : $(top)/$(PO)/%.po dnsmasq.pot
$(MSGMERGE) -o - $(top)/$(PO)/$*.po dnsmasq.pot | $(MSGFMT) -o $*.mo -

.PHONY : all clean mostly_clean install install-common all-i18n install-i18n merge baseline bloatcheck
/* dnsmasq is Copyright (c) 2000-2018 Simon Kelley

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*/

#include "dnsmasq.h"

/* Time between forced re-loads from kernel. */
#define INTERVAL 90

#define ARP_MARK 0
#define ARP_FOUND 1 /* Confirmed */
#define ARP_NEW 2 /* Newly created */
#define ARP_EMPTY 3 /* No MAC addr */

struct arp_record {
  unsigned short hwlen, status;
  int family;
  unsigned char hwaddr[DHCP_CHADDR_MAX];
  struct all_addr addr;
  struct arp_record *next;
};

static struct arp_record *arps = NULL, *old = NULL, *freelist = NULL;
static time_t last = 0;
static int filter_mac(int family, char *addrp, char *mac, size_t maclen, void *parmv)
{
    struct arp_record *arp;

    (void)parmv;

    if (maclen > DHCP_CHADDR_MAX)
        return 1;

    #ifndef HAVE_IPV6
    if (family != AF_INET)
        return 1;
    #endif

    /* Look for existing entry */
    for (arp = arps; arp; arp = arp->next)
    {
        if (family != arp->family || arp->status == ARP_NEW)
            continue;

        if (family == AF_INET)
        {
            if (arp->addr.addr.addr4.s_addr != ((struct in_addr *)addrp)->s_addr)
                continue;
        }
        #ifdef HAVE_IPV6
        else
        {
            if (!IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, (struct in6_addr *)addrp))
                continue;
        }
        #endif
        if (arp->status == ARP_EMPTY)
        {
            /* existing address, was negative. */
            arp->status = ARP_NEW;
            arp->hwlen = maclen;
            memcpy(arp->hwaddr, mac, maclen);
        }
        else if (arp->hwlen == maclen && memcmp(arp->hwaddr, mac, maclen) == 0)
            /* Existing entry matches - confirm. */
            arp->status = ARP_FOUND;
        else
            continue;
    }
    break;
if (!arp)
{
    /* New entry */
    if (freelist)
    {
        arp = freelist;
        freelist = freelist->next;
    }
    else if (! arp = whine_malloc(sizeof(struct arp_record))))
            return 1;

        arp->next = arps;
        arps = arp;
        arp->status = ARP_NEW;
        arp->hwlen = maclen;
        arp->family = family;
        memcpy(arp->hwaddr, mac, maclen);
        if (family == AF_INET)
            arp->addr.addr.addr4.s_addr = ((struct in_addr *)addrp)->s_addr;
#ifdef HAVE_IPV6
        else
            memcpy(&arp->addr.addr.addr6, addrp, IN6ADDRSZ);
#endif
    }

    return 1;
}

/* If in lazy mode, we cache absence of ARP entries. */
int find_mac(union mysockaddr *addr, unsigned char *mac, int lazy, time_t now)
{
    struct arp_record *arp, *tmp, **up;
    int updated = 0;

    again:

    /* If the database is less then INTERVAL old, look in there */
    if (difftime(now, last) < INTERVAL)
    {
        /* addr == NULL -> just make cache up-to-date */
        if (!addr)
            return 0;

        for (arp = arps; arp; arp = arp->next)
        {
            if (addr->sa.sa_family != arp->family)
    
    /* Cache updated */
    updated = 1;

    if (updated)
    {
        again:

    return updated;

    }

}
continue;

if (arp->family == AF_INET &&
    arp->addr.addr.addr4.s_addr != addr->in.sin.addr.s_addr)
    continue;

#ifdef HAVE_IPV6
if (arp->family == AF_INET6 &&
    !IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, &addr->in6.sin.addr.s_addr))
    continue;
#endif

/* Only accept positive entries unless in lazy mode. */
if (arp->status != ARP_EMPTY || lazy || updated)
{
    if (mac &&& arp->hwlen != 0)
        memcpy(mac, arp->hwaddr, arp->hwlen);
    return arp->hwlen;
}

/* Not found, try the kernel */
if (!updated)
{
    updated = 1;
    last = now;

    /* Mark all non-negative entries */
    for (arp = arps; arp; arp = arp->next)
        if (arp->status != ARP_EMPTY)
            arp->status = ARP_MARK;

    iface Enumerate(AF_UNSPEC, NULL, filter_mac);

    /* Remove all unconfirmed entries to old list. */
    for (arp = arps, up = &arps; arp; arp = tmp)
    { tmp = arp->next;

        if (arp->status == ARP_MARK)
        {
            *up = arp->next;
            arp->next = old;
            old = arp;
        }
        else
            up = &arp->next;
/* record failure, so we don't consult the kernel each time
   we're asked for this address */
if (freelist)
{
    arp = freelist;
    freelist = freelist->next;
}
else
    arp = whine_malloc(sizeof(struct arp_record));

if (arp)
{
    arp->next = arps;
    arps = arp;
    arp->status = ARP_EMPTY;
    arp->family = addr->sa.sa_family;
    arp->hwlen = 0;

    if (addr->sa.sa_family == AF_INET)
        arp->addr.addr.addr4.s_addr = addr->in.sin_addr.s_addr;
    #ifdef HAVE_IPV6
    else
        memcpy(&arp->addr.addr.addr6, &addr->in6.sin6_addr, IN6ADDRSZ);
    #endif
}

return 0;

int do_arp_script_run(void)
{
    struct arp_record *arp;

    /* Notify any which went, then move to free list */
    if (old)
    {
        #ifdef HAVE_SCRIPT
        if (option_bool(OPT_SCRIPT_ARP))
            queue_arp(ACTION_ARP_DEL, old->hwaddr, old->hwlen, old->family, &old->addr);
        #endif
        arp = old;
        old = arp->next;
        arp->next = freelist;
    }
}
freelist = arp;
return 1;
}

for (arp = arps; arp; arp = arp->next)
if (arp->status == ARP_NEW)
{
#ifdef HAVE_SCRIPT
if (option_bool(OPT_SCRIPT_ARP))
queue_arp(ACTION_ARP, arp->hwaddr, arp->hwlen, arp->family, &arp->addr);
#endif
arp->status = ARP_FOUND;
return 1;
}

return 0;
}

Q: Why does dnsmasq open UDP ports > 1024 as well as port 53.
Is this a security problem/trojan/backdoor?

A: The high ports that dnsmasq opens are for replies from the upstream
nameserver(s). Queries from dnsmasq to upstream nameservers are sent
from these ports and replies received to them. The reason for doing this is
that most firewall setups block incoming packets _to_ port 53, in order
to stop DNS queries from the outside world. If dnsmasq sent its queries
from port 53 the replies would be _to_ port 53 and get blocked.

This is not a security hole since dnsmasq will only accept replies to that
port: queries are dropped. The replies must be to outstanding queries
which dnsmasq has forwarded, otherwise they are dropped too.

Addendum: dnsmasq now has the option "query-port" (-Q), which allows
you to specify the UDP port to be used for this purpose. If not
specified, the operating system will select an available port number
just as it did before.

Second addendum: following the discovery of a security flaw in the
DNS protocol, dnsmasq from version 2.43 has changed behavior. It
now uses a new, randomly selected, port for each query. The old
default behaviour (use one port allocated by the OS) is available by
setting --query-port=0, and setting the query port to a positive
value still works. You should think hard and know what you are
doing before using either of these options.

Q: Why doesn’t dnsmasq support DNS queries over TCP? Don’t the RFC’s specify
that?
A: Update: from version 2.10, it does. There are a few limitations: data obtained via TCP is not cached, and source-address or query-port specifications are ignored for TCP.

Q: When I send SIGUSR1 to dump the contents of the cache, some entries have no IP address and are for names like mymachine.mydomain.com.mydomain.com. What are these?

A: They are negative entries: that’s what the N flag means. Dnsmasq asked an upstream nameserver to resolve that address and it replied "doesn’t exist, and won’t exist for <n> hours" so dnsmasq saved that information so that if _it_ gets asked the same question it can answer directly without having to go back to the upstream server again. The strange repeated domains result from the way resolvers search short names. See "man resolv.conf" for details.

Q: Will dnsmasq compile/run on non-Linux systems?

A: Yes, there is explicit support for *BSD and MacOS X and Solaris. There are start-up scripts for MacOS X Tiger and Panther in /contrib. Dnsmasq will link with uclibc to provide small binaries suitable for use in embedded systems such as routers. (There’s special code to support machines with flash filesystems and no battery-backed RTC.) If you encounter make errors with *BSD, try installing gmake from ports and building dnsmasq with "make MAKE=gmake"

For other systems, try altering the settings in config.h.

Q: My company’s nameserver knows about some names which aren’t in the public DNS. Even though I put it first in /etc/resolv.conf, it doesn’t work: dnsmasq seems not to use the nameservers in the order given. What am I doing wrong?

A: By default, dnsmasq treats all the nameservers it knows about as equal: it picks the one to use using an algorithm designed to avoid nameservers which aren’t responding. To make dnsmasq use the servers in order, give it the -o flag. If you want some queries sent to a special server, think about using the -S flag to give the IP address of that server, and telling dnsmasq exactly which domains to use the server for.

Q: OK, I’ve got queries to a private nameserver working, now how about reverse queries for a range of IP addresses?

A: Use the standard DNS convention of <reversed address>.in-addr.arpa. For instance to send reverse queries on the range 192.168.0.0 to...
192.168.0.255 to a nameserver at 10.0.0.1 do
server=/0.168.192.in-addr.arpa/10.0.0.1
Note that the "bogus-priv" option take priority over this option,
so the above will not work when the bogus-priv option is set.

Q: Dnsmasq fails to start with an error like this: "dnsmasq: bind
failed: Cannot assign requested address". What's the problem?

A: This has been seen when a system is bringing up a PPP interface at
boot time: by the time dnsmasq start the interface has been
created, but not brought up and assigned an address. The easiest
solution is to use --interface flags to specify which interfaces
dnsmasq should listen on. Since you are unlikely to want dnsmasq to
listen on a PPP interface and offer DNS service to the world, the
problem is solved.

Q: I'm running on BSD and dnsmasq won't accept long options on the
command line.

A: Dnsmasq when built on some BSD systems doesn't use GNU getopt by
default. You can either just use the single-letter options or
change config.h and the Makefile to use getopt-long. Note that
options in /etc/dnsmasq.conf must always be the long form,
on all platforms.

Q: Names on the internet are working fine, but looking up local names
from /etc/hosts or DHCP doesn't seem to work.

A: Resolver code sometime does strange things when given names without
any dots in. Win2k and WinXP may not use the DNS at all and just
try and look up the name using WINS. On unix look at "options ndots:"
in "man resolv.conf" for details on this topic. Testing lookups
using "nslookup" or "dig" will work, but then attempting to run
"ping" will get a lookup failure, appending a dot to the end of the
hostname will fix things. (ie "ping myhost" fails, but "ping
myhost." works. The solution is to make sure that all your hosts
have a domain set ("domain" in resolv.conf, or set a domain in
your DHCP server, see below for Windows XP and Mac OS X).
Any domain will do, but "localnet" is traditional. Now when you
resolve "myhost" the resolver will attempt to look up
"myhost.localnet" so you need to have dnsmasq reply to that name.
The way to do that is to include the domain in each name on
/etc/hosts and/or to use the --expand-hosts and --domain options.

Q: How do I set the DNS domain in Windows XP or MacOS X (ref: previous
question)?

A: for XP, Control Panel > Network Connections > { Connection to gateway /
DNS > Properties > [Highlight TCP/IP] > Properties > Advanced >
DNS Tab > DNS suffix for this connection:

A: for OS X, System Preferences > Network > [Connection to gateway / DNS] >
Search domains:

Q: Can I get dnsmasq to save the contents of its cache to disk when I shut my machine down and re-load when it starts again?

A: No, that facility is not provided. Very few names in the DNS have their time-to-live set for longer than a few hours so most of the cache entries would have expired after a shutdown. For longer-lived names it's much cheaper to just reload them from the upstream server. Note that dnsmasq is not shut down between PPP sessions so go off-line and then on-line again will not lose the contents of the cache.

Q: Who are Verisign, what do they have to do with the bogus-nxdomain option in dnsmasq and why should I worry about it?

A: [note: this was written in September 2003, things may well change.]
Verisign run the .com and .net top-level-domains. They have just changed the configuration of their servers so that unknown .com and .net domains, instead of returning an error code NXDOMAIN, (no such domain) return the address of a host at Verisign which runs a web server showing a search page. Most right-thinking people regard this new behaviour as broken :-). You can test to see if you are suffering Verisign brokenness by run a command like

```
host jlsdajkdalld.com
```

If you get "jlsdajkdalld.com" does not exist, then all is fine, if host returns an IP address, then the DNS is broken. (Try a few different unlikely domains, just in case you picked a weird one which really _is_ registered.)

Assuming that your DNS is broken, and you want to fix it, simply note the IP address being returned and pass it to dnsmasq using the --bogus-nxdomain flag. Dnsmasq will check for results returning that address and substitute an NXDOMAIN instead.

As of writing, the IP address in question for the .com and .net domains is 64.94.110.11. Various other, less prominent, registries pull the same stunt; there is a list of them all, and the addresses to block, at http://winware.org/bogus-domains.txt

Q: This new DHCP server is well and good, but it doesn't work for me. What's the problem?
A: There are a couple of configuration gotchas which have been encountered by people moving from the ISC dhcpd to the dnsmasq integrated DHCP daemon. Both are related to differences in the way the two daemons bypass the IP stack to do "ground up" IP configuration and can lead to the dnsmasq daemon failing whilst the ISC one works.

The first thing to check is the broadcast address set for the ethernet interface. This is normally the address on the connected network with all ones in the host part. For instance if the address of the ethernet interface is 192.168.55.7 and the netmask is 255.255.255.0 then the broadcast address should be 192.168.55.255. Having a broadcast address which is not on the network to which the interface is connected kills things stone dead.

The second potential problem relates to firewall rules: since the ISC daemon in some configurations bypasses the kernel firewall rules entirely, the ability to run the ISC daemon does not indicate that the current configuration is OK for the dnsmasq daemon. For the dnsmasq daemon to operate it’s vital that UDP packets to and from ports 67 and 68 and broadcast packets with source address 0.0.0.0 and destination address 255.255.255.255 are not dropped by iptables/ipchains.

Q: I'm running Debian, and my machines get an address fine with DHCP, but their names are not appearing in the DNS.

A: By default, none of the DHCP clients send the host-name when asking for a lease. For most of the clients, you can set the host-name to send with the "hostname" keyword in /etc/network/interfaces. (See "man interfaces" for details.) That doesn't work for dhclient, were you have to add something like "send host-name daisy" to /etc/dhclient.conf [Update: the latest dhcpd packages _do_ send the hostname by default.

Q: I'm network booting my machines, and trying to give them static DHCP-assigned addresses. The machine gets its correct address whilst booting, but then the OS starts and it seems to get allocated a different address.

A: What is happening is this: The boot process sends a DHCP request and gets allocated the static address corresponding to its MAC address. The boot loader does not send a client-id. Then the OS starts and repeats the DHCP process, but it does send a client-id. Dnsmasq cannot assume that the two requests are from the same machine (since the client ID's don't match) and even though
the MAC address has a static allocation, that address is still in use by the first incarnation of the machine (the one from the boot, without a client ID.) dnsmasq therefore has to give the machine a dynamic address from its pool. There are three ways to solve this: (1) persuade your DHCP client not to send a client ID, or (2) set up the static assignment to the client ID, not the MAC address. The default client-id will be 01:<MAC address>, so change the dhcp-host line from "dhcp-host=11:22:33:44:55:66,1.2.3.4" to "dhcp-host=id:01:11:22:33:44:55:66,1.2.3.4" or (3) tell dnsmasq to ignore client IDs for a particular MAC address, like this: dhcp-host=11:22:33:44:55:66,id:* 

Q: What network types are supported by the DHCP server?

A: Ethernet (and 802.11 wireless) are supported on all platforms. On Linux all network types (including FireWire) are supported.

Q: What are these strange "bind-interface" and "bind-dynamic" options?

A: Dnsmasq from v2.63 can operate in one of three different "networking modes". This is unfortunate as it requires users configuring dnsmasq to take into account some rather bizarre constraints and select the mode which best fits the requirements of a particular installation. The origin of these are deficiencies in the Unix networking model and APIs and each mode has different advantages and problems. Just to add to the confusion, not all modes are available on all platforms (due to lack of supporting network APIs). To further add to the confusion, the rules for the DHCP subsystem on dnsmasq are different to the rules for the DNS and TFTP subsystems.

The three modes are "wildcard", "bind-interfaces" and "bind-dynamic".

In "wildcard" mode, dnsmasq binds the wildcard IP address (0.0.0.0 or ::). This allows it to receive all the packets sent to the server on the relevant port. Access control (--interface, --except-interface, --listen-address, etc) is implemented by dnsmasq: it queries the kernel to determine the interface on which a packet was received and the address to which it was sent, and applies the configured rules. Wildcard mode is the default if neither of the other modes are specified.

In "bind-interfaces" mode, dnsmasq runs through all the network interfaces available when it starts, finds the set of IP addresses on those interfaces, filters that set using the access control configuration, and then binds the set of IP addresses. Only packets sent to the allowed addresses are delivered by the kernel to dnsmasq.

In "bind-dynamic" mode, access control filtering is done both by
binding individual IP addresses, as for bind-interfaces, and by inspecting individual packets on arrival as for wildcard mode. In addition, dnsmasq notices when new interfaces appear or new addresses appear on existing interfaces, and the resulting IP addresses are bound automatically without having to restart dnsmasq.

The mode chosen has four different effects: co-existence with other servers, semantics of --interface access control, effect of new interfaces, and legality of --interface specifications for non-existent interfaces. We will deal with these in order.

A dnsmasq instance running in wildcard mode precludes a machine from running a second instance of dnsmasq or any other DNS, TFTP or DHCP server. Attempts to do so will fail with an "address in use" error. Dnsmasq running in --bind-interfaces or bind-dynamic mode allow other instances of dnsmasq or other servers, as long as no two servers are configured to listen on the same interface address.

The semantics of --interface varies subtly between wildcard or bind-dynamic mode and bind-interfaces mode. The situation where this matters is a request which arrives via one interface (A), but with a destination address of a second interface (B) and when dnsmasq is configured to listen only on B. In wildcard or bind-dynamic mode, such a request will be ignored, in bind-interfaces mode, it will be accepted.

The creation of new network interfaces after dnsmasq starts is ignored by dnsmasq when in --bind-interfaces mode. In wildcard or bind-dynamic mode, such interfaces are handled normally.

An --interface specification for a non-existent interface is a fatal error at start-up when in --bind-interfaces mode, by just generates a warning in wildcard or bind-dynamic mode.

Q: Why doesn't Kerberos work/why can't I get sensible answers to queries for SRV records.

A: Probably because you have the "filterwin2k" option set. Note that it was on by default in example configuration files included in versions before 2.12, so you might have it set on without realising.

Q: Can I get email notification when a new version of dnsmasq is released?

A: Yes, new releases of dnsmasq are always announced through freshmeat.net, and they allow you to subscribe to email alerts when new versions of particular projects are released. New releases are
Q: What does the dhcp-authoritative option do?

A: The DHCP spec says that when a DHCP server receives a renewal request from a client it has no knowledge of, it should just ignore it. This is because it's supported to have more than one DHCP server on a network, and another DHCP server may be dealing with the client. This has the unfortunate effect that when _no_ DHCP replies to the client, it takes some time for the client to time-out and start to get a new lease. Setting this option makes dnsmasq violate the standard to the extent that it will send a NAK reply to the client, causing it to immediately start to get a new lease. This improves behaviour when machines move networks, and in the case that the DHCP lease database is lost. As long as there are not more than one DHCP server on the network, it's safe to enable the option.

Q: Why does my Gentoo box pause for a minute before getting a new lease?

A: Because when a Gentoo box shuts down, it releases its lease with the server but remembers it on the client; this seems to be a Gentoo-specific patch to dhcpcd. On restart it tries to renew a lease which is long gone, as far as dnsmasq is concerned, and dnsmasq ignores it until it times out and restarts the process. To fix this, set the dhcp-authoritative flag in dnsmasq.

Q: My laptop has two network interfaces, a wired one and a wireless one. I never use both interfaces at the same time, and I'd like the same IP and configuration to be used irrespective of which interface is in use. How can I do that?

A: By default, the identity of a machine is determined by using the MAC address, which is associated with interface hardware. Once an IP is bound to the MAC address of one interface, it cannot be associated with another MAC address until after the DHCP lease expires. The solution to this is to use a client-id as the machine identity rather than the MAC address. If you arrange for the same client-id to sent when either interface is in use, the DHCP server will recognise the same machine, and use the same address. The method for setting the client-id varies with DHCP client software, dhcpcd uses the "-I" flag. Windows uses a registry setting, see http://www.jsiinc.com/SUBF/TIP2800/rh2845.htm

Addendum:
From version 2.46, dnsmasq has a solution to this which doesn't involve setting client-IDs. It's possible to put more than one MAC
address in a --dhcp-host configuration. This tells dnsmasq that it should use the specified IP for any of the specified MAC addresses, and furthermore it gives dnsmasq permission to summarily abandon a lease to one of the MAC addresses if another one comes along. Note that this will work fine only as longer as only one interface is up at any time. There is no way for dnsmasq to enforce this constraint: if you configure multiple MAC addresses and violate this rule, bad things will happen.

Addendum-II: The link above is dead, the former contents of the link are:

How can I keep the same DHCP client reservation, if the MAC address changes?

When you reserve an IP address for a DHCP client, you provide the MAC address of the client's NIC.

It is possible to use a custom identifier, which is sent as option 61 in the client's DHCP Discover and Request packet.

The DhcpClientIdentifier is a REG_DWORD value that is located at:

Windows NT 4.0 SP2+

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\<Adapter Name>\X\Parameters\Tcpip

where <Adapter Name> is the NIC driver name and 'X' is the number of the NIC.

Windows 2000

HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\TcpIp\Parameters\Interfaces\<NIC GUID>

where <NIC GUID> is the GUID of the NIC.

The valid range of data is 0x0 - 0xFFFFFFFF. The custom identifier is send as 4 bytes, 8 hexadecimal character, in groups of 2 hexadecimal characters, with the groups being sent in reverse order. If the custom identifier is less than 8 hexadecimal characters, it is zero padded at the end. Examples:

<table>
<thead>
<tr>
<th>Custom Client Identifier</th>
<th>Client Reservation on DHCP Server</th>
</tr>
</thead>
<tbody>
<tr>
<td>12345678</td>
<td>78563412</td>
</tr>
<tr>
<td>123456</td>
<td>56341200</td>
</tr>
<tr>
<td>1234</td>
<td>34120000</td>
</tr>
<tr>
<td>1234567</td>
<td>67452301</td>
</tr>
<tr>
<td>12345</td>
<td>45230100</td>
</tr>
<tr>
<td>123</td>
<td>23010000</td>
</tr>
<tr>
<td>A18F42</td>
<td>428FA100</td>
</tr>
</tbody>
</table>
Q: Can dnsmasq do DHCP on IP-alias interfaces?

A: Yes, from version-2.21. The support is only available running under Linux, on a kernel which provides the RT-netlink facility. All 2.4 and 2.6 kernels provide RT-netlink and it's an option in 2.2 kernels.

If a physical interface has more than one IP address or aliases with extra IP addresses, then any dhcp-ranges corresponding to these addresses can be used for address allocation. So if an interface has addresses 192.168.1.0/24 and 192.168.2.0/24 and there are DHCP ranges 192.168.1.100-192.168.1.200 and 192.168.2.100-192.168.2.200 then both ranges would be used for host connected to the physical interface. A more typical use might be to have one of the address-ranges as static-only, and have known hosts allocated addresses on that subnet using dhcp-host options, while anonymous hosts go on the other.

Q: Dnsmasq sometimes logs "nameserver xxx.xxx.xxx.xxx refused to do a recursive query" and DNS stops working. What's going on?

A: Probably the nameserver is an authoritative nameserver for a particular domain, but is not configured to answer general DNS queries for an arbitrary domain. It is not suitable for use by dnsmasq as an upstream server and should be removed from the configuration. Note that if you have more than one upstream nameserver configured dnsmasq will load-balance across them and it may be some time before dnsmasq gets around to using a particular nameserver. This means that a particular configuration may work for sometime with a broken upstream nameserver configuration.

Q: Does the dnsmasq DHCP server probe addresses before allocating them, as recommended in RFC2131?

A: Yes, dynamically allocated IP addresses are checked by sending an ICMP echo request (ping). If a reply is received, then dnsmasq assumes that the address is in use, and attempts to allocate an different address. The wait for a reply is between two and three seconds. Because the DHCP server is not re-entrant, it cannot serve
other DHCP requests during this time. To avoid dropping requests, the address probe may be skipped when dnsmasq is under heavy load.

Q: I'm using dnsmasq on a machine with the Firestarter firewall, and DHCP doesn't work. What's the problem?

A: This a variant on the iptables problem. Explicit details on how to proceed can be found at http://lists.thekelleys.org.uk/pipermail/dnsmasq-discuss/2005q3/000431.html

Q: I'm using dnsmasq on a machine with the shorewall firewall, and DHCP doesn't work. What's the problem?

A: This a variant on the iptables problem. Explicit details on how to proceed can be found at http://lists.thekelleys.org.uk/pipermail/dnsmasq-discuss/2007q4/001764.html

Q: Dnsmasq fails to start up with a message about capabilities. Why did that happen and what can do to fix it?

A: Change your kernel configuration: either deselect CONFIG_SECURITY _or_ select CONFIG_SECURITY_CAPABILITIES. Alternatively, you can remove the need to set capabilities by running dnsmasq as root.

Q: Where can I get .rpms Suitable for openSUSE/SLES?

A: Dnsmasq is in openSUSE itself, and the latest releases are also available at http://download.opensuse.org/repositories/network/

Q: Can I run dnsmasq in a Linux vserver?

A: Yes, as a DNS server, dnsmasq will just work in a vserver. To use dnsmasq's DHCP function you need to give the vserver extra system capabilities. Please note that doing so will lessen the overall security of your system. The capabilities required are NET_ADMIN and NET_RAW. NET_ADMIN is essential, NET_RAW is required to do an ICMP "ping" check on newly allocated addresses. If you don't need this check, you can disable it with --no-ping and omit the NET_RAW capability.

Adding the capabilities is done by adding them, one per line, to either /etc/vservers/<vservername>/ccapabilities for a 2.4 kernel or /etc/vservers/<vservername>/bcapabilities for a 2.6 kernel (please refer to the vserver documentation for more information).
Q: What's the problem with syslog and dnsmasq?

A: In almost all cases: none. If you have the normal arrangement with local daemons logging to a local syslog, which then writes to disk, then there's never a problem. If you use network logging, then there's a potential problem with deadlock: the syslog daemon will do DNS lookups so that it can log the source of log messages, these lookups will (depending on exact configuration) go through dnsmasq which also sends log messages. With bad timing, you can arrive at a situation where syslog is waiting for dnsmasq, and dnsmasq is waiting for syslog; they will both wait forever. This problem is fixed from dnsmasq-2.39, which introduces asynchronous logging: dnsmasq no longer waits for syslog and the deadlock is broken. There is a remaining problem in 2.39, where "log-queries" is in use. In this case most DNS queries generate two log lines, if these go to a syslog which is doing a DNS lookup for each log line, then those queries will in turn generate two more log lines, and a chain reaction runaway will occur. To avoid this, use syslog-ng and turn on syslog-ng's dns-cache function.

Q: DHCP doesn't work with windows Vista, but everything else is fine.

A: The DHCP client on windows Vista (and possibly later versions) demands that the DHCP server send replies as broadcasts. Most other clients don't do this. The broadcasts are send to 255.255.255.255. A badly configured firewall which blocks such packets will show exactly these symptoms (Vista fails, others work).

Q: DHCP doesn't work with windows 7 but everything else is fine.

A: There seems to be a problem if Windows 7 doesn't get a value for DHCP option 252 in DHCP packets it gets from the server. The symptoms have been variously reported as continual DHCPINFORM requests in an attempt to get an option-252, or even ignoring DHCP offers completely (and failing to get an IP address) if there is no option-252 supplied. DHCP option 252 is for WPAD, WWW Proxy Auto Detection and if you don't want or need to use that, then simplest fix seems to be to supply an empty option with:

dhcp-option=252, "\n"
1.18 dpkg 1.18.25

1.18.1 Available under license:

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Theodore Ts'o
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It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>,
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell  2005
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** NOTE! The following LGPL license applies to the tdb library. This does NOT imply that all of Samba is released
# 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) -rf $(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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Gadi Oxman, August 1995

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

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1.23 file 5.34

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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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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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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

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Version 2, June 1991

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

Preamble

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

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

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

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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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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
#! /usr/bin/env python
# Copyright (C) 2011-2018 Free Software Foundation, Inc.
#
# This file is part of GDB.
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# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program. If not, see <http://www.gnu.org/licenses/>.
"""copyright.py
This script updates the list of years in the copyright notices in
most files maintained by the GDB project.
Usage: cd src/gdb && python copyright.py
Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff

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This removes the bulk of the changes which are most likely to be correct.

```python
import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
```
os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
update_cmd += update_list

p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                     stderr=subprocess.STDOUT)
update_out = p.communicate()[0]

for line in update_out:
    if line.endswith('n'):
        line = line[:-1]
    if line.endswith(': warning: copyright statement not found
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The basename is relative to the root directory.
    This function assumes that the current working directory is that root
    directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...""

    # For now, it may have a copyright notice if we find the word
# "Copyright" at the (reasonable) start of the given file, say
# 50 lines...
MAX_LINES = 50

fd = open(filename)

lineno = 1
for line in fd:
    if 'Copyright' in line:
        return True
    lineno += 1
    if lineno > 50:
        return False
return False

def main():
    """The main subprogram.""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files(update_list)

    # Remind the user that some files need to be updated by HAND...

    if MULTIPLE_COPYRIGHT_HEADERS:
        print
        print("\033[31m"
              "REMINDER: Multiple copyright headers must be updated by hand:"
              "\033[0m")
        for filename in MULTIPLE_COPYRIGHT_HEADERS:
            print " ", filename

    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand."
        "\033[0m"
        for filename in BY_HAND:
            print " ", filename

    #################################################################
    #
    # Some constants, placed at the end because they take up a lot of room.
    # The actual value of these constants is not significant to the understanding
    # of the script.
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
    'gdb/nat/glibc_thread_db.h',  
    'gdb/CONTRIBUTE',  
    'gdb/gnulib/import'  
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
    "fdl.texi", "gpl.texi", "aclocal.m4",  
)

# The list of files to update by hand.
BY_HAND = (  
    # Nothing at the moment :-).  
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (  
    "gdb/doc/gdb.texinfo",  
    "gdb/doc/refcard.tex",  
    "gdb/gdbarch.sh",  
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (  
    "gdb/exc_request.defs",  
    "gdb/gdbtk",  
    "gdb/testsuite/gdb.gdbtk/",  
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",  
)
"sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
"sim/arm/armos.h", "sim/arm/armcoproc.c", "sim/arm/armemu.c",
"sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
"sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
"sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
"sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
"sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
"sim/arm/arminit.c",
"sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
"sim/common/cgen-acfcp.c",
"sim/mips/m16run.c", "sim/mips/sim-main.c",
"sim/moxie/moxie-gdb.dts",
# Not a single file in sim/ppc/ appears to be copyright FSF :-(.
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/identify_branch.h",
"sim/ppc/sim-Endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-Endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/identify_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_epic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/ff.c"
"sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emu_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/id-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emu_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()
BEGIN{
FS="\""
    print "/* ==> Do not modify this file!!  " \ 
    "*- buffer-read-only: t -*. vi" \ 
    ":set ro;"
print " It is created automatically by copying.awk."
print " Modify copying.awk instead. <= *= */;"
print ""
print "#include "defs.h"
print "#include "command.h"
print "#include "gdbcmd.h"
print "#include "gdbserver.h"
print "#include "gdbserver.h"
print "static void show_copying_command (const char *, int);"
print ""
print "static void show_warranty_command (const char *, int);"
print ""
print "static void show_copying_command (const char *ignore, int from_tty);"
print "{"
}
NR == 1,/^15\. Disclaimer of Warranty\[ ]*$/
if ($0 ~ /\!/)
    {printf " printf_filtered (\n\n);n";
}
else if ($0 !~ /^15\. Disclaimer of Warranty\[ ]*$/)
    {printf " printf_filtered (\n"
for (i = 1; i < NF; i++)
printf "%s\n", $i;
printf "%s\n\n"; $NF;
    }
} /^15\. Disclaimer of Warranty\[ ]*$/
    printf ";";
print "";
print "static void"
print "show_warranty_command (const char *ignore, int from_tty)"
print "{";

} /*[ ][ ]*15*. Disclaimer of Warranty\[ ][ ]*$/, /*[ ][ ]*END OF TERMS AND CONDITIONS[ ][ ]*$/ if (! ($0 ~ /*[ ][ ]*END OF TERMS AND CONDITIONS[ ][ ]*$/))

{ printf " printf_filtered \"";
  for (i = 1; i < NF; i++)
printf "%s\"", $i;
printf "%s\n\"n", $NF;
}

END{
print "]\"
print "";
print "void"
print "__initialize_copying (void)"
print "{";
print " add_cmd (\"copying\", no_set_class, show_copying_command,\"
print " Conditions for redistributing copies of GDB\"),\"
print " &showlist);\"
print " add_cmd (\"warranty\", no_set_class, show_warranty_command,\"
print " Various kinds of warranty you do not have\"),\"
print " &showlist);\"
print "};
print " /* For old-timers, allow \"info copying\", etc. */\"
print " add_info (\"copying\", show_copying_command,\"
print " Conditions for redistributing copies of GDB\"));\"
print " add_info (\"warranty\", show_warranty_command,\"
print " Various kinds of warranty you do not have\"));\"
print "]\"

}@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
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@enumerate 0
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@item
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@item
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@end enumerate

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

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

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

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

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

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

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

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

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

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

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

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

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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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1.30 glibc 2.28

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

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root function must still compute square roots.)
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1.40 iputils s20161105

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1.54 Klein 0.2.0

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1.56 krb5 1.17

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
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lib/libgss/g_inquire_names.c
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<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
<script type="text/javascript">
 var DOCUMENTATION_OPTIONS = {
   URL_ROOT: '../',

lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h
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```c
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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_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_principal.c
lib/gssapi/mechglue/g_negotiate_sec_context.c
lib/gssapi/mechglue/g_register_sec_context.c
lib/gssapi/mechglue/g_set_name.c
lib/gssapi/mechglue/g_transport_security.c
lib/gssapi/mechglue/g_upname.c
```
and the initial implementation of incremental propagation, including
the following new or changed files:

- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.x`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/krb5/error_tables/kdb5_err.et`
- `kprop/kpropd_rpc.c`
- `kprop/kproplog.c`

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
``src/lib/gssapi``, including the following files:

.. parsed-literal::

   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
   lib/gssapi/mechglue/g_imp_name.c
   lib/gssapi/mechglue/g_imp_sec_context.c
   lib/gssapi/mechglue/g_init_sec_context.c
   lib/gssapi/mechglue/g_initialize.c
   lib/gssapi/mechglue/g_inquire_context.c
   lib/gssapi/mechglue/g_inquire_cred.c
   lib/gssapi/mechglue/g_inquire_names.c
   lib/gssapi/mechglue/g_process_context.c
   lib/gssapi/mechglue/g_rel_buffer.c
   lib/gssapi/mechglue/g_rel_cred.c
   lib/gssapi/mechglue/g_rel_name.c
   lib/gssapi/mechglue/g_rel_oid_set.c
   lib/gssapi/mechglue/g_seal.c
   lib/gssapi/mechglue/g_sign.c
   lib/gssapi/mechglue/g_store_cred.c
   lib/gssapi/mechglue/g_unseal.c
   lib/gssapi/mechglue/g_userok.c
   lib/gssapi/mechglue/g_utils.c
   lib/gssapi/mechglue/g_verify.c
   lib/gssapi/mechglue/gssd_pname_to_uid.c
   lib/gssapi/mechglue/mglueP.h
   lib/gssapi/mechglue/oid_ops.c
   lib/gssapi/spnego/gssapiP_spnego.h
   lib/gssapi/spnego/spnego_mech.c

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

.. parsed-literal::
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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# checks for violations of the coding standards related to copyright
# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
            if text_seen:
                warn(fname, ln, 'License begins after first line of comment')
            code_seen = True
            is_license = False
            if code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
    # DB2 licenses start with '/' and we don't want to change them.
if line != "" and line != ":
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ ]*)\(- .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*? */', '', line)
        line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
        code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    elif line.strip() != '':
        code_seen = True
        ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
fname = fname[2:]
f = open(fname)
lines = f.readlines()
f.close()
check_file(lines, fname)

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*-

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1.60 libconfuse 2_7

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1.62 libedit 20170329-3.1

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1.64 libffi 3.2.1 :Nov 12 2014

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1.84 mox 0.5.3

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- Karl Berry \(<karl@owl.HQ.ileaf.com>\) syslog to file option
- Greg Brackley \(<greg.brackley@bigfoot.com>\) Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
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- Jean-Francois Boudreault \(<Jean-Francois.Boudreault@viagenie.qc.ca>\) IPv6 support
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- Sven Dietrich \(<sven_dietrich@trimble.COM>\) Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port
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55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
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59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
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References

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/* -*- Mode: Text -*- */
copyright = {
    date = "1992-2017";
    owner = "The University of Delaware and Network Time Foundation";
    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    type = ntp;
};
long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=`\`sed -e 's/^[ ]*/\1/ -e 's/\]*/\1/ < ../sntp/m4/version.m4``
       [ -z "$\{VERSION\}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
       echo $VERSION`;

version-value = ""; /* Don't use -v as a shortcut for --version */
/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/

// doc-sub = {
//     sub-name = version;
//     sub-text = 's/#VERSION#<<version>>/g';
// };

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Open-vm-tools v10.2.0

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

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

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

[Misc C library code]

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

[zlib]

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.3, July 18th, 2005

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

/*

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[edoc, syntax_tools]

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1.104 pciutils 3.5.6
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1.106 popt 1.16

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1.108 prototype.js 1.7
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1.110 pyasn1 0.4.5

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1.111 pyasn1-modules 0.2.3

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1.112 python-appdirs 1.4.3

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1.113 python-Automat 0.3.0
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1.115 python-cffi 1.9.1
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1.116 python-characteristic 14.3.0

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1.117 python-click 7.0

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1.118 python-configargparse 0.13.0

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1.119 python-cryptography 2.1.4
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1.121 python-enum34 1.1.6

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1.122 python-functools32 3.2.3-2
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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1.123 python-httplib2 0.10.3

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1.124 python-idna 2.6

1.125 python-josepy 1.0.1

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1.126 python-jsonschema 2.6.0

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1.127 python-jwcrypto 0.4.2
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1.128 python-ldap 2.4.41
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1.129 python-ndg-httpsclient 0.5.1
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1.130 python-parsedatetime 2.4

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1.131 python-peewee 2.10.2
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1.132 python-pycparser 2.14
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1.133 python-pycpuid 0.4
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

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

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

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

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

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

That's all there is to it!

---

1.134 python-pycrypto 2.7a1
1.134.1 Available under license :

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

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

Additionally, some files within PyCrypto had specified their own
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:

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Exceptions:

- 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.)

- The various GNU autotools (autoconf, automake, aclocal, etc.) are used during the build process. This includes macros from autoconf-archive, which are located in the m4/ directory. As is customary, some files from the GNU autotools are included in the source tree (in the root directory, and in the build-aux/ directory). These files are merely part of the build process, and are not included in binary builds of the software.

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Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.
Open Source Used In TelePresence Video Communication Server and Expressway Series X12.5.1

1340
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
# For information about the Stamper service see
# http://www.itconsult.co.uk/stamper.htm
#
# SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

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

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

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

Dwayne C. Litzenberger <dlitz@dlitz.net>

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGvnhWvth+BAQEcuwf9EWnXLqS5bPzR9K9QnTPcsKbTljKjPxr
d+q0E7eE8VtvvijUncTAR9o27yyzOPxdFT864MQAT7OTshPK39aGAgA4fgAgvYH9t
UNjIkv8QLz/au2fi/HNjyrwnqFnuU0uqwpOrQGbZ8Y+SGpVhlgKqy1ju45L+doq
xbxZCOpjgVz2DdNR/2SnFmDQXv8dSeonwIHpQDft8/LVA/gHiTDMteQIOhJQ6o
XYhY+HbRj5D741/GSpQ9IN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/
W/pqSIpkwmbh1PHoOltTkNc0qKLAH1XqMGJNhO8AkryZYoYJksb0HsA==
In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

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

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

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

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

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

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

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever.
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".)

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

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

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a 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
I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne

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

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

From jeethurao@gmail.com Sun Mar  8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003);  8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun,  8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
Hi Dwayne,

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

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

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com

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

> Hi Jeethu,
> > I am the new maintainer of the Python Cryptography Toolkit, and I am
> > working on a new release at http://www.pycrypto.org/.
> > >
> > People often ask me what license PyCrypto is covered by, if it's
> > GPL-compatible, etc. Right now, I'm not really sure what to tell them. The
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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).

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

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Regards,

- Dwayne

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Dwayne C. Litzenberger <dlitz@dlitz.net>

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

--
000e0cd209d0e5a3d40464a23054

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

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Regards,<br>

- Dwayne
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===================================================================

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--amk (www.amk.ca)

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any purpose whatsoever. No rights are reserved.

=======================================================================
Regards,
- Dwayne

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

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
by goedel.dlitz.net (Postfix) with SMP id B5EAF401EE
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600
Delivered-To: qmailmgr-postfix 7604 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sh256; 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=F2h2hFzpQxyKZ8BhenniyyupGw4Zvlek9BSk91qKU+51W/TK5GBij5YZIhkLQdkQk0lqL5zf4g8dT6bOME3s
EY1j10hIxK0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/pEjhRpee+FV6aoLV0FONWiHFGdhPT1 dulWXfV7gB
2aU=
DomainKey-Signature:a=rsa-sha1; q=dns; c=nofws;
s=1024; d=yahoo.com;

Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
FrK8aWMVM1mFjtLpMGbUbCLjQbCQ.i.JkIAKUHSFsFh79PbtewAewXJ2ahZGC0IGCXX6oVnG3u.CgqzAffY
4vZSnfTT8wnCkzZNZ_g6k.XUc3ipo_6e.92TXJ4p8MxDGAff1tpNF5nXPwcQ7aREs7jGoWWVJYVyt50cISUFS
Hi Dwayne.

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

Regards,
Mark.

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

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> 
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
> 
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
> The text in the current LICENSE file (quoted below) is not
> entirely clear
> on the point of whether distributing modified versions is
> allowed. (It
> says "distribute and use", but not "modify".)
> 
> ===========
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

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

--amk

(www.amk.ca)

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

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---

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--amk

(www.amk.ca)
Thanks a lot, and don't worry about not responding to previous emails. I
do that too much myself. ;)


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=4B2A9F82FC7D9E3838D9179F1C11B877E7804B45 (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. ;)

> 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

Open Source Used In TelePresence Video Communication Server and Expressway Series X12.5.1
1353
On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:
>
> Hi Dwayne.
>
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
>
> Regards,
> Mark.
>
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> >
> >> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
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> >> To: "Mark Moraes" <moraes@computer.org>
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> >> and I am
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> >> it's
> >> GPL-compatible, etc. Right now, I'm not really sure
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> >> The text in the current LICENSE file (quoted below) is not
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> >> allowed. (It
> >> says "distribute and use", but not "modify".)
> >>
> >>
> >> =---------------------------------------------------------------------
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> >> no restrictions on further
> >> dissemination and usage except those
> >> imposed by the laws of your
> >> country of residence. This
> >> software is provided "as is" without
> >> warranty of fitness for use or
> >> suitability for any purpose, express
> >> or implied. Use at your own risk or
> >> not at all.
> >>
> >> =---------------------------------------------------------------------
> >> Incorporating the code into commercial
products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk
(www.amk.ca)

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```
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======================================================================
```

Regards,
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?
>
> >======================================================================
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> >======================================================================

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.
Hi Andrew,

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".)

```
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
```

-- YiEDa0DAkWCtVeE4
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

Hi Andrew,

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

```
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
```
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--amk (www.amk.ca)

For the next PyCrypto release, I’d like to take steps to move toward a clearer licensing regime. I’m asking as many copyright holders as I can find, starting with you, 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.

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

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Regards,
- Dwayne

--=20
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45
From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
    for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id D632D10111
    for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
    Received: (vmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)
    Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])
        by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105
        for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
        Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000
        Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
            (envelope-sender <amk@amk.ca>)
            by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP
            for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000
Date: Sun, 23 Nov 2008 07:51:34 -0500
From: "A.M. Kuchling" <amk@amk.ca>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
Message-ID: <20081123125134.GA21239@amk.local>
Reply-To: amk@amk.ca
References: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

The intention is that it be public domain.

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

You may.

--amk

Hi Barry,

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

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

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or implied. Use at your own risk or not at all.

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--amk (www.amk.ca)

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

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Regards,
- Dwayne

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

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

From barry@python.org Mon Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMTP id 0644E1007A
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

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

> I understand that you have made contributions to PyCrypto. May I, =20=
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

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

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

Regards,
- Dwayne

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

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

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003);  3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
by goedel.dlitz.net (Postfix) with ESMTP id 4Ef63881066
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
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger@dltiz@dltiz.net wrote:

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

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=

Open Source Used In TelePresence Video Communication Server and Expressway Series X12.5.1

1365
Yes, that's fine. Good luck with the new release!

-P
--
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
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:
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>>
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>> extent that dedication to the public domain is not available, everyone
>> is granted a worldwide, perpetual, royalty-free, non-exclusive license
>> to exercise all rights associated with the contents of this file for
>> any purpose whatsoever. No rights are reserved.

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

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net 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
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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

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

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
  for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
  Received: from localhost (localhost [127.0.0.1])
     by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
     for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
  Received: (vmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600
  Delivered-To: m-dlitz-dlitz@dlitz.net
  Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
  envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
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     for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
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  Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
     (envelope-sender <joris@bontje.nl>)
     by 10.170.1.96 (qmail-ldap-1.03) with SMTP
     for < >; 5 May 2009 07:08:25 -0000
  Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
     id 9BE9B15759B; Tue,  5 May 2009 09:08:25 +0200 (CEST)
  Received: from firewall66.interaccess.nl (firewall66.interaccess.nl [193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;
     Tue, 05 May 2009 09:08:25 +0200
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
Date: Tue, 05 May 2009 09:08:25 +0200
From: joris@bontje.nl
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
References: <20090505024914.GA9219@rivest.dlitz.net>
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
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Content-Disposition: inline
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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!

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

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <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/.
> 
> 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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> 
> --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, and Mark Moraes, and they
> have all approved the following dedication for their contributions.
> 
> I understand that you have made contributions to PyCrypto. May I, on your
> behalf, dedicate to the public domain all your contributions to PyCrypto,
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> Regards,
> - Dwayne
>

From dlitz@dlitz.net Tue May  5 17:53:47 2009
Date: Tue, 5 May 2009 17:53:47 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: joris@bontje.nl
Subject: Re: PyCrypto license clarification
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>
References: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
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In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
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preference=unprotected
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id=4B2AFD82FC7D9E3838D9179F1C11B87F7804B45 (2008);
preference=signencrypt
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
>
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--amk (www.amk.ca)

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```

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

--
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
Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

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

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SH8AoLJgaq11i7/ZYDc+/-Cd8VO0xLbr
=Mvcg
-----END PGP SIGNATURE-----
Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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

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<th>Year</th>
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1.135 python-pycurl 7.43.0.1

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

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

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

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

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

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

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

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

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

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(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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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:

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1.136 python-pygobject 2.28.6
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

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

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1.137 python-pyinotify 0.9.6

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1.138 python-pyopenssl 17.5.0

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1.139 python-pyparsing 2.2.0

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History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://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 https://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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Mersenne Twister
----------------

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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MD5 message digest algorithm

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    L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

    http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch<br>ghost@aladdin.com. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.  
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.  
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.  
1999-05-03 lpd Original version. 

Asynchronous socket services  
---------------------------

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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

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

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Mersenne Twister

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The `random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
---------------------------

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test_epoll
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-------------

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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

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1.160 sed 4.5

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### 1.161 shadow 4.4

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The apr_vsnprintf/apr_snprintf functions are based on, and used with the
permission of, the SIO stdio-replacement strx_* functions by Panos
Tsirigotis <panos@alumni.cs.colorado.edu> for xinetd.

@file apr_base64.h
@brief APR-UTIL Base64 Encoding

 ifndef APR_BASE64_H
 #define APR_BASE64_H

#include "apr.h"
#include "apr_general.h"
#define APU_DECLARE(x) x

#ifdef __cplusplus
extern "C" {
#endif

/**
 * @defgroup APR_Util_Base64 Base64 Encoding
 * @ingroup APR_Util
 * @{}
 */

/* Simple BASE64 encode/decode functions.
* As we might encode binary strings, hence we require the length of
* the incoming plain source. And return the length of what we decoded.
* The decoding function takes any non valid char (i.e. whitespace, \0
* or anything non A-Z,0-9 etc as terminal.
* plain strings/binary sequences are not assumed \0' terminated. Encoded
* strings are neither. But probably should.
*/

APU_DECLARE(int) apr_base64_encode_len(int len);

/**
 * Given the length of an un-encrypted string, get the length of the
 * encrypted string.
 * @param len the length of an unencrypted string.
 * @return the length of the string after it is encrypted
 */
APU_DECLARE(int) apr_base64_encode(char * coded_dst, const char *plain_src, int len_plain_src);

/**
 * Encode a text string using base64encoding.
 * @param coded_dst The destination string for the encoded string.
 * @param plain_src The original string in plain text
 * @param len_plain_src The length of the plain text string
 * @return the length of the encoded string
 */
APU_DECLARE(int) apr_base64_encode(char * coded_dst, const char *plain_src, int len_plain_src);

/**
 * Encode an EBCDIC string using base64encoding.
*/
* @param coded_dst The destination string for the encoded string.
* @param plain_src The original string in plain text
* @param len_plain_src The length of the plain text string
* @return the length of the encoded string
*/
APU_DECLARE(int) apr_base64_encode_binary(char * coded_dst,
    const unsigned char * plain_src,
    int len_plain_src);

/**
 * Determine the length of a plain text string given the encoded version
 * @param coded_src The encoded string
 * @return the length of the plain text string
 */
APU_DECLARE(int) apr_base64_decode_len(const char * coded_src);

/**
 * Decode a string to plain text
 * @param plain_dst The destination string for the plain text
 * @param coded_src The encoded string
 * @return the length of the plain text string
 */
APU_DECLARE(int) apr_base64_decode(char * plain_dst, const char * coded_src);

/**
 * Decode an EBCDIC string to plain text
 * @param plain_dst The destination string for the plain text
 * @param coded_src The encoded string
 * @return the length of the plain text string
 */
APU_DECLARE(int) apr_base64_decode_binary(unsigned char * plain_dst,
    const char * coded_src);

/** @} */
#endif /* !APR_BASE64_H */

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Version 3, 29 June 2007

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1.167 sysfsutils 2.1.0

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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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
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the 
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copy of the library already present on the user's computer system, 
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For an executable, the required form of the "work that uses the 
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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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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scl/syslogconf/convert-syslogconf.awk
./.*\.

.*\.(yml|md|ly|txt|xml|xsd|log|key|crt|files|in|conf\.|example|gradle|mk|supp|subj|guess|list|pc\.|cmake)$

\.*rc$

.*[\^/]++-grammar\.ch$ (.*?\.(README|gitignore|pylintrc)$

lib/svykis

lib/jsonc
modules/afamqp/rabbitmq-c
modules/afmongodb/mongo-c-driver
modules/java/org_syslog_ng_.[^/\.-]+\.h$
modules/afmongodb/afamqp/dummy\.c$

dev-utils/plugin_skeleton_creator/plugin_template.*$

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scripts/update-patterndb$

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h|libtool|ltmain|sh|mxml|test-driver|ywrap)$

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LGPLv2.1+_SSL
autogen\sh$
cmake
sub-configure\sh$
configure\ac$
Makefile\am$
lib/(compat|control|debugger|filter|logproto|parser|rewrite|stats|template|tests|transport|logmsg|value-pairs|[^/]*$)
lib/scanner/csv-scanner
lib/str-repr
libtest
syslog-ng(-ctl)?
modules/java-modules/common
modules/java/(native|proxies|src)
modules/native
GPLv2+_SSL
dev-utils/plugin_skeleton_creator/create_plugin.sh
tests
modules/java/(tools|[^/]*$)
modules/java-modules/(dummy|elastic|v2|hdfs|http|kafka[^/]*$)
modules/(afamqp|affile|afmongodb|afprog|afsmtp|afsocket|afsql|afstomp|afstreams|afuser|basicfuncs|cef|confgen|cryptopfuncs|csvparser|date|diskq|dbparser|geoip|graphite|json|kvformat|linux-kmsg-format|packtformat|pseudofile|python|redis|riegman|syslogformat|systemd-journal|system-source[^/]*$)
modules/add-contextual-data
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1.180 unzip 60

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/*!
 * URI.js - Mutating URLs
 *
 * Version: 1.14.1
 *
 * Author: Rodney Rehm
 * Web: http://medialize.github.io/URI.js/
 *
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 * MIT License http://www.opensource.org/licenses/mit-license
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 *
 */

(function (root, factory) {

  'use strict';

  // https://github.com/umdjs/umd/blob/master/returnExports.js
  if (typeof exports === 'object') {
    // Node
    module.exports = factory(require('./URI'));
  } else if (typeof define === 'function' && define.amd) {
    // AMD. Register as an anonymous module.
    define(['./URI'], factory);
  } else {
    // Browser globals (root is window)
    root.URITemplate = factory(root.URI, root);
  }
})(this, function (URI, root) {

  'use strict';

  // FIXME: v2.0.0 rename non-camelCase properties to uppercase
  /*jshint camelcase: false */

  // save current URITemplate variable, if any
  var _URITemplate = root && root.URITemplate;

  var hasOwn = Object.prototype.hasOwnProperty;
  function URITemplate(expression) {
    // serve from cache where possible
    if (_URITemplate._cache[expression]) {
      return _URITemplate._cache[expression];
    }

    // Allow instantiation without the 'new' keyword
    if (!(this instanceof URITemplate)) {

return new URITemplate(expression);
}

this.expression = expression;
URITemplate._cache[expression] = this;
return this;
}

function Data(data) {
this.data = data;
this.cache = {};
}

var p = URITemplate.prototype;
// list of operators and their defined options
var operators = {
// Simple string expansion
'' : {
    prefix: '',
    separator: ',',
    named: false,
    empty_name_separator: false,
    encode : 'encode'
},
// Reserved character strings
'+' : {
    prefix: '',
    separator: ',',
    named: false,
    empty_name_separator: false,
    encode : 'encodeReserved'
},
// Fragment identifiers prefixed by '#'
'#' : {
    prefix: '#',
    separator: ',',
    named: false,
    empty_name_separator: false,
    encode : 'encodeReserved'
},
// Name labels or extensions prefixed by '.'
'.' : {
    prefix: '.',
    separator: '.',
    named: false,
    empty_name_separator: false,
    encode : 'encode'
}
};
// Path segments prefixed by '/'
'/' : {
prefix: '/',
separator: '/',
named: false,
empty_name_separator: false,
encode : 'encode'
},
// Path parameter name or name=value pairs prefixed by ';'
';' : {
prefix: ';',
separator: ';',
named: true,
empty_name_separator: false,
encode : 'encode'
},
// Query component beginning with '?' and consisting
// of name=value pairs separated by '&'; an
'?' : {
prefix: '?',
separator: '&',
named: true,
empty_name_separator: true,
encode : 'encode'
},
// Continuation of query-style &name=value pairs
// within a literal query component.
'&' : {
prefix: '&',
separator: '&',
named: true,
empty_name_separator: true,
encode : 'encode'
}
// The operator characters equals ("="), comma (","), exclamation ("!"),
// at sign ("@"), and pipe ("|") are reserved for future extensions.
};
// storage for already parsed templates
URITemplate._cache = {};
// pattern to identify expressions [operator, variable-list] in template
URITemplate.EXPRESSION_PATTERN = /\{([^a-zA-Z0-9%_]?)([^\}]+)(\}|$)/g;
// pattern to identify variables [name, explode, maxlength] in variable-list
URITemplate.VARIABLE_PATTERN = /^([^*:]+)((\*)|:(\d+))?$/;
// pattern to verify variable name integrity
URITemplate.VARIABLE_NAME_PATTERN = /[^a-zA-Z0-9%_]/;

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1775


URITemplate.expand = function(expression, data) {
    // container for defined options for the given operator
    var options = operators[expression.operator];
    // expansion type (include keys or not)
    var type = options.named ? 'Named' : 'Unnamed';
    // list of variables within the expression
    var variables = expression.variables;
    // result buffer for evaluating the expression
    var buffer = [];
    var d, variable, i;

    // expand parsed expression (expression, not template!)
    for (i = 0; (variable = variables[i]); i++) {
        // fetch simplified data source
        d = data.get(variable.name);
        if (!d.val.length) {
            if (d.type) {
                // empty variables (empty string)
                // still lead to a separator being appended!
                buffer.push('');
            }
            // no data, no action
            continue;
            // no data, no action
        }
        // expand the given variable
        buffer.push(URITemplate['expand' + type](
            d,
            options,
            variable.explode,
            variable.explode && options.separator || ',',
            variable.maxlength,
            variable.name
        ));
    }

    if (buffer.length) {
        return options.prefix + buffer.join(options.separator);
    } else {
        // prefix is not prepended for empty expressions
        return '';
    }

    // expand a named variable
    URITemplate.expandNamed = function(d, options, explode, separator, length, name) {
        // variable result buffer
        var result = '';
        // performance crap
        // expand a named variable
        if (buffer.length) {
            return options.prefix + buffer.join(options.separator);
        } else {
            // prefix is not prepended for empty expressions
            return '';
        }
    };
var encode = options.encode;
var empty_name_separator = options.empty_name_separator;
// flag noting if values are already encoded
var _encode = !d[encode].length;
// key for named expansion
var _name = d.type === 2 ? '' : URI[encode](name);
var _value, i, l;

// for each found value
for (i = 0, l = d.val.length; i < l; i++) {
    if (length) {
        // maxLength must be determined before encoding can happen
        _value = URI[encode](d.val[i][1].substring(0, length));
        if (d.type === 2) {
            // apply maxLength to keys of objects as well
            _name = URI[encode](d.val[i][0].substring(0, length));
        }
    } else if (_encode) {
        // encode value
        _value = URI[encode](d.val[i][1]);
        if (d.type === 2) {
            // encode name and cache encoded value
            _name = URI[encode](d.val[i][0]);
            d[encode].push([_name, _value]);
        } else {
            // cache encoded value
            d[encode].push([undefined, _value]);
        }
    } else {
        // values are already encoded and can be pulled from cache
        _value = d[encode][i][1];
        if (d.type === 2) {
            _name = d[encode][i][0];
        }
    }
}

if (result) {
    // unless we're the first value, prepend the separator
    result += separator;
}

if (!explode) {
    if (!i) {
        // first element, so prepend variable name
        result += URI[encode](name) + (empty_name_separator || _value ? '=' : ':');
    }

    if (d.type === 2) {

// without explode-modifier, keys of objects are returned comma-separated
result += _name + ':
} else {
  // only add the = if it is either default (?)& or there actually is a value (;
result += _name + (empty_name_separator || _value ? '=' : '') + _value;
}

return result;
};

// expand an unnamed variable
URITemplate.expandUnnamed = function(d, options, explode, separator, length) {
  // variable result buffer
  var result = '';
  // performance crap
  var encode = options.encode;
  var empty_name_separator = options.empty_name_separator;
  // flag noting if values are already encoded
  var _encode = !d[encode].length;
  var _name, _value, i, l;

  // for each found value
  for (i = 0, l = d.val.length; i < l; i++) {
    if (length) {
      // max_length must be determined before encoding can happen
      _value = URI[encode](d.val[i][1].substring(0, length));
    } else if (_encode) {
      // encode and cache value
      _value = URI[encode](d.val[i][1]);
      d[encode].push([d.type === 2 ? URI[encode](d.val[i][0]) : undefined, _value]);
    } else {
      // value already encoded, pull from cache
      _value = d[encode][i][1];
    }
    if (result) {
      // unless we're the first value, prepend the separator
      result += separator;
    }
    if (d.type === 2) {
      if (length) {
        if (result) {
          // unless we're the first value, prepend the separator
          result += separator;
        }
        if (d.type === 2) {
          if (length) {

// maxlength also applies to keys of objects
_name = URI[encode](d.val[i][0].substring(0, length));
} else {
    // at this point the name must already be encoded
    _name = d[encode][i][0];
}

result += _name;
if (explode) {
    // explode-modifier separates name and value by "="
    result += (empty_name_separator || _value ? '=' : '');
} else {
    // no explode-modifier separates name and value by ","
    result += ',';
}

result += _value;
}

return result;
}

URITemplate.noConflict = function() {
    if (root.URITemplate === URITemplate) {
        root.URITemplate = _URITemplate;
    }

    return URITemplate;
};

// expand template through given data map
p.expand = function(data) {
    var result = '';

    if (!this.parts || !this.parts.length) {
        // lazily parse the template
        this.parse();
    }

    if (!!(data instanceof Data)) {
        // make given data available through the
        // optimized data handling thingie
        data = new Data(data);
    }

    for (var i = 0, l = this.parts.length; i < l; i++) {
        /*jshint laxbreak: true */
result += typeof this.parts[i] === 'string'
  // literal string
  ? this.parts[i]
  // expression
  : URITemplate.expand(this.parts[i], data);
/*jshint laxbreak: false */
}
}

// parse template into action tokens
p.parse = function() {
  // performance crap
  var expression = this.expression;
  var ePattern = URITemplate.EXPRESSION_PATTERN;
  var vPattern = URITemplate.VARIABLE_PATTERN;
  var nPattern = URITemplate.VARIABLE_NAME_PATTERN;
  // token result buffer
  var parts = [];
  // position within source template
  var pos = 0;
  var variables, eMatch, vMatch;

  // RegExp is shared accross all templates,
  // which requires a manual reset
  ePattern.lastIndex = 0;
  // I don't like while(foo = bar()) loops,
  // to make things simpler I go while(true) and break when required
  while (true) {
    eMatch = ePattern.exec(expression);
    if (eMatch === null) {
      // push trailing literal
      parts.push(expression.substring(pos));
      break;
    } else {
      // push leading literal
      parts.push(expression.substring(pos, eMatch.index));
      pos = eMatch.index + eMatch[0].length;
    }
    if (!operators[eMatch[1]]) {
      throw new Error('Unknown Operator "' + eMatch[1]  + '" in "' + eMatch[0] + '"');
    } else if (!eMatch[3]) {
      throw new Error('Unclosed Expression "' + eMatch[0]  + '"');
    }
  }

  if (!operators[eMatch[1]]) {
    throw new Error('Unknown Operator "' + eMatch[1]  + '" in "' + eMatch[0] + '"');
  } else if (!eMatch[3]) {
    throw new Error('Unclosed Expression "' + eMatch[0]  + '"');
  }

  // parse variable-list
  variables = eMatch[2].split(';');
for (var i = 0, l = variables.length; i < l; i++) {
    vMatch = variables[i].match(vPattern);
    if (vMatch === null) {
        throw new Error('Invalid Variable "' + variables[i] + '" in "' + eMatch[0] + '"');
    } else if (vMatch[1].match(nPattern)) {
        throw new Error('Invalid Variable Name "' + vMatch[1] + '" in "' + eMatch[0] + '");
    }
    variables[i] = {
        name: vMatch[1],
        explode: !!vMatch[3],
    };
}

if (!variables.length) {
    throw new Error('Expression Missing Variable(s) "' + eMatch[0] + '"');
}

parts.push({
    expression: eMatch[0],
    operator: eMatch[1],
    variables: variables
});

if (!parts.length) {
    // template doesn't contain any expressions
    // so it is a simple literal string
    // this probably should fire a warning or something?
    parts.push(expression);
}

this.parts = parts;
return this;

// simplify data structures
Data.prototype.get = function(key) {
    // performance crap
    var data = this.data;
    // cache for processed data-point
    var d = {
        // type of data 0: undefined/null, 1: string, 2: object, 3: array
        type: 0,
        // original values (except undefined/null)
        val: [],
        // cache for encoded values (only for non-maxlength expansion)
encode: [],
encodeReserved: []
);
var i, l, value;

if (this.cache[key] !== undefined) {
    // we've already processed this key
    return this.cache[key];
}

this.cache[key] = d;

if (String(Object.prototype.toString.call(data)) === '[object Function]') {
    // data itself is a callback (global callback)
    value = data(key);
} else if (String(Object.prototype.toString.call(data[key])) === '[object Function]') {
    // data is a map of callbacks (local callback)
    value = data[key](key);
} else {
    // data is a map of data
    value = data[key];
}

// generalize input into [[name1, value1], [name2, value2]].
// so expansion has to deal with a single data structure only
if (value === undefined || value === null) {
    // undefined and null values are to be ignored completely
    return d;
} else if (String(Object.prototype.toString.call(value)) === '[object Array]') {
    for (i = 0, l = value.length; i < l; i++) {
        if (value[i] !== undefined && value[i] !== null) {
            // arrays don't have names
            d.val.push([undefined, String(value[i])]);
        }
    }
    if (d.val.length) {
        // only treat non-empty arrays as arrays
        d.type = 3; // array
    }
}

if (d.val.length) {
    // only treat non-empty arrays as arrays
    d.type = 3; // array
}
} else if (String(Object.prototype.toString.call(value)) === '[object Object]') {
    for (i in value) {
        if (hasOwnProperty.call(value, i) && value[i] !== undefined && value[i] !== null) {
            // objects have keys, remember them for named expansion
            d.val.push([i, String(value[i])]);
        }
    }
}
if (d.val.length) {
    // only treat non-empty objects as objects
    d.type = 2; // object
} else {
    d.type = 1; // primitive string (could've been string, number, boolean and objects with a toString())
    // arrays don't have names
    d.val.push([undefined, String(value)]);
}

return d;
};

// hook into URI for fluid access
URI.expand = function(expression, data) {
    var template = new URITemplate(expression);
    var expansion = template.expand(data);

    return new URI(expansion);
};

return URITemplate;
});

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*uganda.txt*        For Vim version 8.0. Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
couraged to make a donation for needy children in Uganda. Please see |kcc|
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see
|manual-copyright|.

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except
that they must include this license text. You can also distribute
unmodified parts of Vim, likewise unrestricted except that they must
include this license text. You are also allowed to include executables
that you made from the unmodified Vim sources, plus your own usage
examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim,
including executables and/or source code, when the following four
conditions are met:

1) This license text must be included unmodified.

2) The modified Vim must be distributed in one of the following five ways:

   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

   b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

   c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

   d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

      - The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.

      - You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.

      - You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

   e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim
is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

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

Kibaale Children's Centre* kcc* Kibaale* charity*
Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this
I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children’s Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

1.185 vlan 1.9
1.185.1 Available under license:
The MAC vlan stuff is primarily the work of, and is copy-righted (GPL) by:

# (C) Copyright 2001
# Alex Zeffer, Cambridge Broadband Ltd, ajz@cambridgebroadband.com

However, I (Ben) reworked the MAC-VLAN code extensively, including re-writing all of the locking code. So, any complaints & bugs should come to me.

--Ben Greear (greear@candelatech.com)
http://www.candelatech.com/~greear

1.186 wget 1.19.5
1.186.1 Available under license:
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

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Preamble

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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5. Conveying Modified Source Versions.

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

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

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

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

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

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

6. Conveying Non-Source Forms.

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

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

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

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

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

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

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

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
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and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,
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1.190 zlib 1.2.11

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