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Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

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

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

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https://github.com/golang/protobuf

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

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1.2 python-ipy 0.83 r0

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1.3 log-rotate 3.15.1 r0

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>>> base64.c-none
>>> convertutf.c/.h from unicode, inc.-none
>>> freebsd-1.72
>>> icu4c-4.4.1
>>> unicode-5.0

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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> convertutf.c/.h from unicode, inc.-none

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>>> freebsd-1.72

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>>> icu4c-4.4.1

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### 1.7 libgcc 9.2.0 r0

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

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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
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</table>

@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
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DRuntime: Runtime Library for the D Programming Language

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### 1.11 python-setuptools 41.6.0 r0

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1.13 python-pytz 2019.2 r0
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1.15 python3-pysocks 1.7.1 r0
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1.16 berkeley-db 5.3.28 r1

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 * SUCH DAMAGE.
 */

=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

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It was downloaded from <http://www.ch-werner.de/sqliteodbc/>

Upstream Author: Christian Werner <chw@ch-werner.de>

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1.17 python-pycrypto 2.6.1 r0

1.17.1 Available under license:

From dlitz@dlitz.net Sun Aug  2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2631
Hi Paul,

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

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

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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, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

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

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

---
Regards,
- Dwayne

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

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

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
    for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
    for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in
    'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
    from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
    by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
    for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
    for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=dlitz.net; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
 :from:date:message-id:subject:to:content-type
 :content-transfer-encoding;
bh=A0RHBt0TnribKSs5QOHJ3WYbkZ+b0cuPeuoKAvtvApWc==;
b=gyTqpRhlKfEdFKIZCBWsxRbnMNVDqj1PWILbyCyC0EvxPskaor3HR96MWQNBePu40Ac
 Vn5sQ10jdDz4e9zUUE6MwZo9kiQw0L/SLb0DIQeNqo/eHYqPmuVswItaYwNAYyMj
 Y9++76rPGzqYdALsfvsmwv7Q3/bEmjVTnT0tQE=
DomainKey-Signature: a=rsa-sha1; c=nofws;
d=dlitz.net; s=gamma;
h=mime-version:in-reply-to:references:from:date:message-id:subject:to
 :content-type:content-transfer-encoding;
b=jze7KS0kUHiVvCXXaaxXMi5NaGdMQOtvVZZfRNYyGSy68xO2dsxefyiyig3eT6Nv6
 Q3opUMsT96Q65jZNd55w446hkh2uBTNz4d3NwIeEWJn3GxcltRQu/mXPFP8AzP3CeFL
1onJLM1eQ2XyuZA73jem+STjfdHUCsd1UhgI=
MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,
03 Aug 2009 09:14:03 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlietz@dlitz.net> wrote:

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

That's great!

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

-p
--=20
Paul Swartz
paulswartz at gmail dot com
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
> 
> >> Hi Paul,
> >>
> >> I am the new maintainer of the Python Cryptography Toolkit, and I am
> >> working on a new release at http://www.pycrypto.org/.
> >
> >That's great!
> >
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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
00INDEX                 - This file
tsu-notify.mbox         - Notification sent per U.S. export regulations
copy/                   - Copyright info & public-domain dedications
From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1;
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3461
Lines: 78

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

Hi Andrew,

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

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

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAkk0521ACglQHBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjktexTaBzEQmOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
Delivered-To: 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 ESMTMP 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: <20081123125134.GA21239@amk.local>
MIME-Version: 1.0
> People often ask me what license PyCrypto is covered by, if it's
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> The text in the current LICENSE file (quoted below) is not entirely clear
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> says "distribute and use", but not "modify".)

The intention is that it be public domain.

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

You may.

--amk
From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goедel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
    for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
    for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
    Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
    Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])
    by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
    for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
    Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk
    [193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS
    15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
    Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
    enc@nsa.gov,
    web_site@bis.doc.gov,
    pycrypto@lists.dlitz.net,
    PYTHON-CRYPTO@NIC.SURFNET.NL,
-----BEGIN PGP SIGNED MESSAGE-----

# This is a proof of posting certificate from stamper.itconsult.co.uk certifying that a user claiming to be:-
# dlitz@dlitz.net
# requested that this message be sent to:-
# crypt@bis.doc.gov

Open Source Used In XESDK 17.4-4.0.11 306
# This certificate was issued at 00:45 (GMT)  
# on Thursday 28 August 2008 with reference 0520978  
#
# CAUTION: while the message may well be from the sender  
# indicated in the "From:" header, the sender  
# has NOT been authenticated by this service  
#
# For information about the Stamper service see  
# http://www.itconsult.co.uk/stamper.htm  
#
##################################################

**SUBMISSION TYPE: TSU**

**SUBMITTED BY:** Dwayne C. Litzenberger

**SUBMITTED FOR:** Dwayne C. Litzenberger

**POINT OF CONTACT:** Dwayne C. Litzenberger

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

**MANUFACTURER:** n/a

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

**ECCN:** 5D002

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

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

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

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7  
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

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

Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QntTPcsKbTIjKjPxr
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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> >
> > May I, on your behalf, dedicate to the public domain all your
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> >
> > =
> > =====================================================================
> >    The contents of this file are dedicated to the public domain. To
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> > to exercise all rights associated with the contents of this file
> > for
> > any purpose whatsoever. No rights are reserved.
> >
> > =
> > =====================================================================
> >
In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAlkmZ01gACgkQQQDkKyvJ6cOLvQClQmYYuVODv1lyLg0hgCI9LAbQ
SH8AoLJaq1li7/ZYDc+/Cd8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On November 23, 2008, you wrote:
> Hi Wim,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
> 
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

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

Wim.

-----BEGIN PGP SIGNATURE-----
Hi Joris,

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

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

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

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

--amk
(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a 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.

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

Regards,
- Dwayne

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

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
    for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
    for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)
Received: (qmailmgr-postfix 16890 invoked by uid 0); 5 May 2009 07:08:25 -0000
    Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
    (envelope-sender <joris@bontje.nl>)
    by 10.170.1.96 (qmail-ldap-1.03) with SMTP
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 AppEngine!

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

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

Regards,
Joris

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

> Hi Joris,
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Regards,
- Dwayne
Excellent! Thank you!

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

> Hi Dwayne,
> 
> Thanks for taking over the PyCrypto library and putting in the required
effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
> for Google AppsEngine!
> 
> You have my full permission to dedicate all my contributions to PyCrypto to
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The contents of this file are dedicated to the public domain. To the
In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

**Developer's Certificate of Origin 1.1**

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

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

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

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

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

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

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

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

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

=== EOF ===

Hi Jeethu,

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

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

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(though that would be nice).

--amk (www.amk.ca)

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

Regards,
- Dwayne

--
Dwayne C. 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
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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>
> ==============================================================
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> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> ==============================================================
>
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>
> --amk                                                    (www.amk.ca)
>
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I&39;d be fine with the public domain license if or PyCrypto.<br>
Jeethu Rao</div><div>PS: Apologies for the delay in my response.=A0</div>

Jeethu Rao

--

Jeethu Rao

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

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Jeethu Rao

--
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Regards,

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

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

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

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:
The contents of this file are dedicated to the public domain. To
the extent that dedication to the public domain is not available,
everyone is granted a worldwide, perpetual, royalty-free,
non-exclusive license to exercise all rights associated with the
contents of this file for any purpose whatsoever.
No rights are reserved.

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

Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and
  are therefore Copyright (c) 2001, 2002, 2003 Python Software
  Foundation (All Rights Reserved). They are licensed by the PSF
  under the terms of the Python 2.2 license. (See the file
  LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

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

Hi Mark,

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

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

```
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```

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 5D9AE984FD
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 QMOP id DE41F4025F
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024;
t=1240269933;
b=OvxqbYnCg7R6tUN3YMgFURM3CuHhJJeHyXhDzkaThU==; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=F2h2bFzpQxyKZf8BhenmiyypGw4Zvlekb9Sk9lqKU+51W/TkSGBj5YZhklQdkQkqlgL5f4g8dT66bOMES3
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=r6RShFF5VzQLg+9tcp1xKuo4rsRIVxXF6dqOpQrMyRcxFeooebnuTE35grGqTomOJLwM0+mZwRb6rGkDj7
63caOAl08Ect/qlADW5izXfmVQaDhTbTqmpsJbMqniTQs9iT+InrG+3ULwUSGfX7fhEWm9P/8Bzxf9Wp4b3j
DomainKey-Signature:a=rsa-sha1; q=dns; c=nofws;
s=s1024; d=yahoo.com;
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
FrK8aWWMVM1mFJtLpMGbUbCLjbUBQC.iJk1AKUHFSfn79PbtewAewXj2uhZGCOlGCX6oVnG3u.CgqzAfY
4vZSmTfT8wKnCkZZNZ_g6k.XUc3ipo_6e.92TX1p48MxDoGAF1tpNF5nXPwcQ7aREs7jGoWWVJYVYtp50cIsUSFS
Hzf7ZbpasP1Yoe_xSzf3OAgrSH5fCrbFCC8sHPCuwrl3YhasbHmkWffeSS.x6gEcBaxf03oz4FeDb5mpJ54g11X
onq8h_Tmzx9g84Bln9g_3fj4WSXm6g6.tohlLyfXuxoj4036wyWpTKPrWzIUQaN83Sy_bj_Ghxw--
Received: from [69,124,140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Status: RO
X-Status: A
Content-Length: 3222
Hi Dwayne.

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

Regards,
Mark.

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

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
>
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>
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> allowed. (It
> says "distribute and use", but not "modify".)
>
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>       Incorporating the code into commercial
products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

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.

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

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:
> >Hi Dwayne.
> >Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
> >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
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.

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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
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
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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--amk (www.amk.ca)

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Regards,
- Dwayne

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

From barry@python.org Mon Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
  for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
  by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
  for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
  by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
  for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
  by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
  for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=floowed; delsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
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

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
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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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<th>Owner</th>
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<td>PSF</td>
<td>yes</td>
</tr>
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</table>

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1.18 semodule-utils 2.8 r0

1.18.1 Available under license:

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

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Lewis Marshall <lewis@flynn.io> (github: lmars)
Jonathan Rudenberg <jonathan@flynn.io> (github: titanous)

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1.24 python-six 1.12.0 r0

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1.25 gawk 5.0.1 r0

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[This is the first released version of the library GPL. It is
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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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1.26 lrzsz 0.12.20 r6

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1.31 bind 9.11.5-P4 r0

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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1.33 libxml 2.9.9 r0

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

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(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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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
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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.

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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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Written by: Philip Hazel
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  - [http://xmlsoft.org/](http://xmlsoft.org/)
- **SQLite**.
  - [http://www.sqlite.org/](http://www.sqlite.org/)
PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.
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The Mac OS binary packages also include:
- Various X.org libraries. These were built using MacPorts.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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.
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:

- 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.)

- 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.

- 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.

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

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

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

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

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

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

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

That's all there is to it!

1.38 cantarell-fonts 0.0.25 r0

1.38.1 Available under license :

StartChar: copyright
Encoding: 169 169 102
GlifName: copyright
Width: 869
Flags: HMW
LayerCount: 2
Back
SplineSet
548 524 m 2
564 517 l 1
537 439 l 1
518 446 l 1
495 454 473 458 449 458 c 0
371 458 351 408 351 353 c 0
351 294 372 238 455 238 c 0
475 238 495 242 515 249 c 2
533 255 l 1
561 179 l 1
543 172 l 2
509 159 474 152 437 152 c 0
355 152 255 195 255 343 c 0
255 496 355 547 442 547 c 0
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Dave Crossland <dave@understandinglimited.com>
1.39 libnsl2 1.2.0+gitAUTOINC+37c5ffe303 r0

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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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,
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will operate properly with a modified version of the library, if
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gevent/libuv/_coreffi_source.c
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Originally based on code from https://github.com/veegee/guv

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1.48 grep 3.3 r0

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ASN.1 library for Python
------------------------
[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

### Features

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

### Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

### How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:
```bash
Record ::= SEQUENCE {
    id      INTEGER,
    room    [0] INTEGER OPTIONAL,
    house   [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType('room', Integer().subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        ),
        ).
    DefaultedNamedType('house', Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
    ),
    )
)
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
    id=123
    room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
...    id is 123
...    room is 321
...    house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
```
With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

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

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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- /opt/ws_local/PERMITS_SQL/1084376906_1598474018.54/0/pyasn1-0.4.7-1.tar-gz/pyasn1-0.4.7/README.md

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ASN.1 library for Python

Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

---------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_.
or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
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/download

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
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/changelog

License
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Getting help
-------------

Books on ASN.1
-------------
The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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Markus F.X.J. Oberhumer
<markus@oberhumer.com>
http://www.oberhumer.com/opensource/lzo/
/*

#define LZO_NEED_DICT_H 1
#include "config1c.h"

#if !defined(COMPRESS_ID)
#define COMPRESS_ID     LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif

#include "lzo1b_c.ch"

/***********************************************************************
const lzo_compressor_t LZO_COMPRESS_FUNC = do_compress;

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in, lzo_uint in_len,
        lzo_bytep out, lzo_uintp out_len,
        lzo_voidp wrkmem )
{
    return _lzo1c_do_compress(in, in_len, out, out_len, wrkmem, do_compress);
}

/* vim:set ts=4 sw=4 et: */
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1.55 python-wcwidth 0.1.7 r0

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1.58 pciutils 3.6.2 r0
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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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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1.60 protobuf-c 1.3.2 r0

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1.61 python-ipaddress 1.0.22 r0
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1.62 libvirt 5.5.0 r0
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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 "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
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
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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
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

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

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

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

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

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

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

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

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

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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.

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

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END OF TERMS AND CONDITIONS

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The precise terms and conditions for copying, distribution and modification follow.
@heading TERMS AND CONDITIONS

@enumerate

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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.

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@item
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@item
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@item
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Version 2.1, February 1999

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

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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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Ty Coon, President of Vice

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1.67 python-pip 19.2.3 r0

1.67.1 Available under license:

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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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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Go support for Protocol Buffers - Google's data interchange format

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Gocheck - A rich testing framework for Go

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1.76 iperf 3.7 r0
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1.77 python3-pytz 2019.2 r0

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1.78 python3-idna 2.9 r0
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import io, sys
from setuptools import setup

def main():

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

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

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
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    }

---

---

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]
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1084378005_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/setup.py

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Metadata-Version: 1.2
Name: idna
Version: 2.9
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:

.. code-block:: pycon

    # Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

# Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')

Packages
--------

The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna

Installation
------------

To install this library, you can use pip:

.. code-block:: bash

   $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

   $ python setup.py install

This library works with Python 2.7 and Python 3.4 or later.

Usage
-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

You may use the codec encoding and decoding methods using the `idna.codec` module:

.. code-block:: pycon

    # Python 2
    >>> import idna.codec
    >>> print u'.'.encode('idna')
    xn--80ahd1agd.xn--80akhbyknj4f
    >>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
    .

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

.. code-block:: pycon

    # Python 2
    >>> idna.alabel(u'')
    'xn--0zwm56d'

Compatibility Mapping (UTS #46)
+++++++++++++++++++++++++++++++

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

.. code-block:: pycon
## Python 3

```python
>>> import idna

>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed

>>> idna.encode('Königsgäßchen', uts46=True)
'b'xn--knigsgchen-b4a3dun'

>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

```
.. code-block:: pycon

    # Python 2
    >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
    'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

```
``encodings.idna`` Compatibility
++++++++++++++++++++++++++++++++

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

Exceptions
----------

All errors raised during the conversion following the specification should raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext`` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)
Building and Diagnostics

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

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA `<http://iana.org/>`

* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing
------

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing `<http://unicode.org/reports/tr46/>`

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master

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

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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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structure layouts and accessors, and small macros and small inline
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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executable containing the modified Library. (It is understood
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1.82 gzip 1.10 r0

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

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

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

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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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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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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Mercel <0xjnml@gmail.com> <befelemepeeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani monoses@ubuntu.com> <jani.monoses@gmail.com>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jhuberel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delponteje@gmail.com>
Jason Hall <jasonhall@google.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wangsadinata <jwangsadinata@gmail.com>
Javier Segura <javism@gmail.com>
Jay Conrod <jayconrod@google.com>
Jay Weisskopf <jay@jayswcha.net>
Jean-Francois Cantin <jfcantin@gmail.com>
Jean-Marc Eurin <jmeurin@google.com>
Jean-Nicolas Moal <j.n.moal@gmail.com>
Jed Denlea <jed@fastly.com>
Jeet Parekh <jeetparekh96@gmail.com>
Jeff (Zhefu) Jiang <jeffjiang@gmail.com>
Jeff Craig <jeffcraig@gmail.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jrjohnson@gmail.com>
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeffrey H <jeffreyh192@gmail.com>
Jelte Fennema <github-tech@jeltef.nl>
Jens Frederich <jf Frederich@gmail.com>
Jeremiah Harmsen <jeremiah@google.com>
Jeremy Jackins < jeremyjackins@gmail.com>
Jeremy Schlatter <jeremy schlatter@gmail.com>
Jeroen Bobbeldijk <jerbob92@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jesse Szwedko <jesse.szwedko@gmail.com>
Open Source Used In XESDK 17.4-4.0.1 1
1222

Justyn Temme <justyntemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Trukenmlller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kamal Aboul-Hosn <aboulhosn@google.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kang Hu <hukangustc@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karoly Negyesi <chx1975@gmail.com>
Karsten Khler <karsten.koehler95@gmail.com>
Kashav Madan <kshvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>
Kay Zhu <kayzhu@google.com>
KB Sriram <kbsriram@google.com>
Keegan Carruthers-Smith <keegan.csmith@gmail.com>
Kei Son <hey.calmdown@gmail.com>
Keiji Yoshida <keiji.yoshida.mail@gmail.com>
Keith Ball <inflatablewoman@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <kr@xph.us>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Ken Friedenbach <kenliz@cruzio.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>
Kenji Kaneda <kenji.kaneda@gmail.com>
Kenji Yano <kenji.yano@gmail.com>
Kenneth Shaw <kenshaw@gmail.com>
Kenny Grant <kennygrant@gmail.com>
Kevin Ballard <kevin@sb.org>
Kevin Burke <kev@inburke.com>
Kevin Kirsche <kev.kirsche@gmail.com>
Kevin Klues <klueska@gmail.com> <klueska@google.com>
Kevin Malachowski <chowski@google.com>
Kevin Ruffin <kruffin@gmail.com>
Kevin Vu <kevin.m.vu@gmail.com>
Kieran Colford <kieran@kcolford.com>
Kim Shrier <kshrier@racktopsystems.com>
Kim Yongbin <kybinz@gmail.com>
Kirill Smelkov <kirr@nexedi.com>
Kirk Han <kirk91.han@gmail.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riepolo <luigi.riepolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Curley <qpingle@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luna Dulos <luna.dulos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <maiconscosta@gmail.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manish Goregaokar <manishsmail@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@nokia.com>
Manu S Ajith <ne0@codingarena.in>
Manuel Mendez <nmendez534@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freiheit.com>
Marga Manterola <marga@nokia.com>
Marin Bai <marin.basic02@gmail.com>
Marius Nuennerich <mnu@nokia.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Harrison <marhar@nokia.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@nokia.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Mikulicic <mkm@nokia.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email 1</th>
<th>Email 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael Schurter</td>
<td><a href="mailto:michael.schurter@gmail.com">michael.schurter@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Michael Shields</td>
<td><a href="mailto:mshields@google.com">mshields@google.com</a></td>
<td></td>
</tr>
<tr>
<td>Michael Stapelberg</td>
<td><a href="mailto:michael@stapelberg.de">michael@stapelberg.de</a></td>
<td>mstplbrg@gmailcom</td>
</tr>
<tr>
<td>Michael Steinert</td>
<td><a href="mailto:mike.steinert@gmail.com">mike.steinert@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Michael T. Jones</td>
<td><a href="mailto:mjt@google.com">mjt@google.com</a></td>
<td><a href="mailto:michael.jones@gmail.com">michael.jones@gmail.com</a></td>
</tr>
<tr>
<td>Michael Teichgruber</td>
<td><a href="mailto:mteichgraeber@gmx.de">mteichgraeber@gmx.de</a></td>
<td>mt4swm@gmailcom</td>
</tr>
<tr>
<td>Michael Vetter</td>
<td><a href="mailto:g.bluehut@gmail.com">g.bluehut@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Michal Bohuslvek</td>
<td><a href="mailto:nbobuslavek@gmail.com">nbobuslavek@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Michal Cierniak</td>
<td><a href="mailto:cierniak@gmail.com">cierniak@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Micha Derkacz</td>
<td><a href="mailto:ziutek@lnet.pl">ziutek@lnet.pl</a></td>
<td></td>
</tr>
<tr>
<td>Michal Pistas</td>
<td><a href="mailto:michal.pristas@gmail.com">michal.pristas@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Michalis Kargakis</td>
<td><a href="mailto:michaliskargakis@gmail.com">michaliskargakis@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Michel Lespinasse</td>
<td><a href="mailto:walken@gmail.com">walken@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Miek Gieben</td>
<td><a href="mailto:miek@miek.nl">miek@miek.nl</a></td>
<td><a href="mailto:remigius.gieben@gmail.com">remigius.gieben@gmail.com</a></td>
</tr>
<tr>
<td>Miguel Mendez</td>
<td><a href="mailto:stxmendez@gmail.com">stxmendez@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Miguel Molina</td>
<td><a href="mailto:hi@mvader.me">hi@mvader.me</a></td>
<td></td>
</tr>
<tr>
<td>Mihai Borobocea</td>
<td><a href="mailto:MihaiBorobocea@gmail.com">MihaiBorobocea@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Mikhail Minaev</td>
<td><a href="mailto:minaev.mike@gmail.com">minaev.mike@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Mikael Tillenius</td>
<td><a href="mailto:miki42@gmail.com">miki42@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Mike Andrews</td>
<td><a href="mailto:mra@xoba.com">mra@xoba.com</a></td>
<td></td>
</tr>
<tr>
<td>Mike Appleby</td>
<td><a href="mailto:mike@app.leby.org">mike@app.leby.org</a></td>
<td></td>
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<tr>
<td>Mike Danese</td>
<td><a href="mailto:mikedanense@google.com">mikedanense@google.com</a></td>
<td></td>
</tr>
<tr>
<td>Mike Houston</td>
<td><a href="mailto:mike@kothar.net">mike@kothar.net</a></td>
<td></td>
</tr>
<tr>
<td>Mike Rosset</td>
<td><a href="mailto:mike.rosset@gmail.com">mike.rosset@gmail.com</a></td>
<td></td>
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<tr>
<td>Mike Samuel</td>
<td><a href="mailto:mikesamuel@gmail.com">mikesamuel@gmail.com</a></td>
<td></td>
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<tr>
<td>Mike Solomon</td>
<td><a href="mailto:msolo@gmail.com">msolo@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Mike Strosaker</td>
<td><a href="mailto:strosake@us.ibm.com">strosake@us.ibm.com</a></td>
<td></td>
</tr>
<tr>
<td>Mike Wiacek</td>
<td><a href="mailto:mjwiacek@gmail.com">mjwiacek@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Mikhail Gusrarov</td>
<td><a href="mailto:dottedmag@dottedmag.net">dottedmag@dottedmag.net</a></td>
<td></td>
</tr>
<tr>
<td>Mikhail Panchenko</td>
<td><a href="mailto:m@mihasya.com">m@mihasya.com</a></td>
<td></td>
</tr>
<tr>
<td>Miki Tebeka</td>
<td><a href="mailto:miki.tebeka@gmail.com">miki.tebeka@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Mikio Hara</td>
<td><a href="mailto:mikioh.mikioh@gmail.com">mikioh.mikioh@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Mikkel Krautz</td>
<td><a href="mailto:mikkel@krautz.dk">mikkel@krautz.dk</a></td>
<td><a href="mailto:krautz@gmail.com">krautz@gmail.com</a></td>
</tr>
<tr>
<td>Milutin Jovanovic</td>
<td><a href="mailto:jovanovic.milutin@gmail.com">jovanovic.milutin@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Miquel Sabat Sol</td>
<td><a href="mailto:mikisabate@gmail.com">mikisabate@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Miroslav Genov</td>
<td><a href="mailto:mgenov@gmail.com">mgenov@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Mohit Agarwal</td>
<td><a href="mailto:mohit@sdf.org">mohit@sdf.org</a></td>
<td></td>
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<tr>
<td>Momchil Velikov</td>
<td><a href="mailto:momchil.velikov@gmail.com">momchil.velikov@gmail.com</a></td>
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<tr>
<td>Monis Khan</td>
<td><a href="mailto:mkhan@redhat.com">mkhan@redhat.com</a></td>
<td></td>
</tr>
<tr>
<td>Monty Taylor</td>
<td><a href="mailto:mordred@inaugust.com">mordred@inaugust.com</a></td>
<td></td>
</tr>
<tr>
<td>Moriyoshi Koizumi</td>
<td><a href="mailto:mozo@mozo.jp">mozo@mozo.jp</a></td>
<td></td>
</tr>
<tr>
<td>Morten Siebuhr</td>
<td><a href="mailto:sbhr@sbhr.dk">sbhr@sbhr.dk</a></td>
<td></td>
</tr>
<tr>
<td>Mshe van der Sterre</td>
<td><a href="mailto:moshevds@gmail.com">moshevds@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Mostyn Bramley-Moore</td>
<td><a href="mailto:mostyn@antipode.se">mostyn@antipode.se</a></td>
<td></td>
</tr>
<tr>
<td>Mrunal Patel</td>
<td><a href="mailto:mrunalp@gmail.com">mrunalp@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Muhammad Falak R Wani</td>
<td><a href="mailto:falakreyaz@gmail.com">falakreyaz@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Muhammed Uluyol</td>
<td><a href="mailto:uluyol0@gmail.com">uluyol0@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>Mura Li</td>
<td><a href="mailto:mura_li@castech.com.tw">mura_li@castech.com.tw</a></td>
<td></td>
</tr>
</tbody>
</table>
Nan Deng <monnand@gmail.com>
Naoki Kanatani <k12naoki@gmail.com>
Nathan Caza <mastercactapus@gmail.com>
Nathan Humphreys <nkhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate.finch@gmail.com>
Nathan VanBenschoten <nvanbenschoten@gmail.com>
Nathan Youngman <git@nathany.com>
Nathan(yinian) Hu <nathanhu@google.com>
Nathaniel Cook <nvcook42@gmail.com>
Neelesh Chandola <neelesh.c98@gmail.com>
Neil Lyons <nwjlyons@googlemail.com>
Neuman Vong <neuman.vong@gmail.com>
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>
Niall Sheridan <nsheridan@gmail.com>
Nie Day <nic.day@me.com>
Nicholas Katsaros <nick@nickkatsaros.com>
Nicholas Maniscalco <nicholas@maniscalco.com>
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Nick Cooper <nmvc@google.com>
Nick Craig-Wood <nick@ craig-wood.com> <nickcw@gmail.com>
Nick Harper <nharper@google.com>
Nick Kubala <nkubala@gmail.com>
Nick Leli <nicholasleli@gmail.com>
Nick Miyake <nmiyake@users.noreply.github.com>
Nick Patavalis <nick.patavalis@gmail.com>
Nick Petroni <npetroni@cs.umd.edu>
Nick Robinson <nrobinson13@gmail.com>
Nicolas BRULEZ <n.brulez@gmail.com>
Nicolas Kaiser <nikai@nikai.net>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>
Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nik Nyby <nmyby@columbia.edu>
Niklas Schnelle <niklas.schnelle@gmail.com>
Niko Dziemba <niko@dziemba.com>
Nikolay Turpitko <nikolay@turpitko.com>
Nils Larsgrd <nilsmagnus@gmail.com>
Niranjan Godbole <niranjan8192@gmail.com>
Noah Campbell <noahcampbell@gmail.com>
Noble Johnson <noblepoly@gmail.com>
Nodir Turakulov <nodir@google.com>
Norberto Lopes <nlopes.ml@gmail.com>
Odin Ugedal <odin@ugedal.com>
Oleg Bulatov <dimage@yandex-team.ru>
Oleg Vakheta <helginet@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Oliver Tonnhofer <olt@bogosoft.com>
Olivier Antoine <olivier.antoine@gmail.com>
Olivier Duperray <duperray.olivier@gmail.com>
Olivier Poitrey <rs@dailymotion.com>
Olivier Saingre <osaingre@gmail.com>
Omar Jarjur <ojarjur@gmail.com>
zgr Kesim <oecc-go@kesim.org>
Pablo Lalloni <plalloni@gmail.com>
Pablo Santiago Blum de Aguiar <scorphus@gmail.com>
Padraig Kitterick <padraigkitterick@gmail.com>
Paolo Giarrusso <p.giarrusso@gmail.com>
Paolo Martini <mrtnpaolo@gmail.com>
Parker Moore <parkrmoore@gmail.com>
Pascal S. de Kloe <pascal@quies.net>
Pat Moroney <pat@pat.email>
Patrick Crosby <patrick@stathat.com>
Patrick Gavlin <pgavlin@gmail.com>
Patrick Higgins <patrick.allen.higgins@gmail.com>
Patrick Lee <pattyshack101@gmail.com>
Patrick MZard <patrick@mezard.eu>
Patrick Mylund Nielsen <patrick@patrickmn.com>
Patrick Pelletier <pp.pelletier@gmail.com>
Patrick Riley <pfr@gmail.com>
Patrick Smith <pat42smith@gmail.com>
Paul A Querna <paul.querna@gmail.com>
Paul Borman <borman@google.com>
Paul Boyd <boyd.paul2@gmail.com>
Paul Chang <paulchang@gmail.com>
Paul Hammond <paul@paulhammond.org>
Paul Hankin <paulhankin@gmail.com>
Paul Jolly <paul@myitcv.org.uk>
Paul Lalonde <paul.a.lalonde@gmail.com>
Paul Marks <pmarks@gmail.com>
Paul Meyer <paul.meyer@microsoft.com>
Paul Nasrat <pnasrat@gmail.com>
Paul PISCUC <paul.piscuc@gmail.com>
Paul Querna <pquerna@apache.org>
Paul Rosania <paul.rosania@gmail.com>
Paul Ruest <pruest@gmail.com>
Paul Sbarra <SbarraPaul@gmail.com>
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
Paul van Brouwershaven <paul@vanbrouwershaven.com>
Paul Wankadia <junyer@google.com>
Pablo Casaretto <pcasaretto@gmail.com>
Pablo Fabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavel Smorigo <ymkins@gmail.com>
Pawel Knap <paweilknap88@gmail.com>
Pawel Szczur <filemon@google.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Peter Maymounkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@gmail.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mitcis.com>
Pier Surnyi <speter.gol@gmail.com>
Peter Szab <pts@gmail.com>
Peter Szilgyi <peterke@gmail.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Petricia Voicu <pvoicu@paypal.com>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellopiers.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Pontus Leitzler <leitzler@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Varanasi <prashant@prashantv.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Qiuxuan Zhu <ilsh1022@gmail.com>
Quan Tran <qued.quan@gmail.com>
Robert Figueiredo <robfig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@google.com>
Robert Obryk <robryk@gmail.com>
Robert Sesek <rsesek@gmail.com>
Robert Snedegar <roberts@google.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robin Eklind <r.eklind.87@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>
Roger Pau Monn <royger@gmail.com>
Roger Peppe <rogpeppe@gmail.com>
Roland Shoemaker <rolandshoemaker@gmail.com>
Roman Budnikov <romanyx90@yandex.ru>
Ron Hashimoto <mail@h2so5.net>
Ron Minnich <rminnich@gmail.com>
Ross Chater <rdchater@gmail.com>
Ross Light <rlight2@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rudi Kramer <rudi.kramer@gmail.com>
Rui Ueyama <ruui@gmail.com>
Russ Cox <rsc@golang.org>
Russell Haering <russellhaering@gmail.com>
Ryan Bagwell <ryanbagwell@outlook.com>
Ryan Barrett <ryanb@gmail.com>
Ryan Boehning <ryan.boehning@apcera.com>
Ryan Brown <ribrdb@gmail.com>
Ryan Hitchman <hitchmanr@gmail.com>
Ryan Lower <rpjlower@gmail.com>
Ryan Seys <ryan@ryanseys.com>
Ryan Slade <ryanslade@gmail.com>
Ryoichi KATO <ryo1kato@gmail.com>
Ryuji Iwata <qt.lugi@gmail.com>
Ryozo Yamamoto <ryozo.yamamoto@gmail.com>
S.alar Onur <caglar@10ur.org>
Sai Cheemalapati <saicheems@gmail.com>
Sakeven Jiang <jc5930@sina.cn>
Salmn Ajjamz <ss@0x65.net>
Sam Boyer <tech@samboyer.org>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@gmail.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <sajmani@gmail.com>
Sami Commerot <samic@gmail.com>
Samuel Tan <samultan@gmail.com>
Samuele Pedroni <pedronis@lucediurna.net>
Sanjay Menakuru <balasanjay@gmail.com>
Sarah Adams <shadams@google.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@google.com>
Sasha Sobol <sasha@scaledinference.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smsansfield@netflix.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@gmail.com>
Sean Chittenden <seane@joyent.com>
Sean Christopherson <sean.j christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Rees <sean@erifax.org>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergey ‘SnakE’ Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Frolov <sfrolov@gmail.com>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shaozhen Ding <dsz0111@gmail.com>
Shawn Ledbetter <sledbetter@gmail.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shi Han Ng <shihanng@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Thulbourn <simon+github@thulbourn.com>
Tom Szymanski <tgs@google.com>
Tom Wilkie <tom@weave.works>
Tommy Schaefer <tommy.schaefer@teecom.com>
Tonis Tiigi <tonistiigi@gmail.com>
Tony Walker <walkert.uk@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <tamin01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Troels Thomsen <troels@thomsen.io>
Trung Nguyen <trung.n.k@gmail.com>
Tudor Golubenco <tudorg@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuo@google.com>
Tyler Bui-Palsulich <tpalsulich@google.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Victor Chudnovsky <vchudnov@gmail.com>
Victor Vrantchan <vrancean+github@gmail.com>
Vikas Kedia <vikask@gmail.com>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <v batts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vinu Rajashekhar <vinutheraj@gmail.com>
Vish Subramanian <vish@gmail.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Vitor De Mario <vitordemario@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotski <ypaprots@ca.ibm.com>
Wade Simmons <wade@wades.im>
Walter Poupore <wpoupore@google.com>
Wander Lairson Costa <wcosta@mozilla.com>
Wedson Almeida Filho <wedsonaf@google.com>
Wi Cngru <crvv.mail@gmail.com>
Wei Guanjing <vvcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Weichao Tang <tevic.tt@gmail.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
Will Chan <willchan@google.com>
Will Faught <will.faught@gmail.com>
Will Norris <willnorris@google.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Josephson <wjosephson@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xry23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xing Xing <mikespook@gmail.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xuyang Kang <xuyangkang@gmail.com>
Yan Zou <yzou@gmail.com>
Yann Kerherv <yann.kerherve@gmail.com>
Yann Salan <yannsalaunl@gmail.com>
Yao Zhang <lunaria21@gmail.com>
Yasha Bubnov <girokompass@gmail.com>
Yasuhiro Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yestin Sun <ylh@pdx.edu>
Yesudeep Mangalapilly <yesudeep@google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
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Yoshiyuki Kanno <nekoroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
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#   Name <email address>
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That's all there is to it!

1.87 unzip 6.0 r5
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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles

* A collection of File Manager and related routines

__________________________
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* with significant code contributions by Nitin Ganatra
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* 
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* 
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch],
eexplode.c) was originally written by Mark Adler who submitted it
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1.88 audit 2.8.5 r0
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#
# PC Screen (console) Fonts - psf1 header
#
0
leshort
0x0436
psf screen font data
>2
byte
0
256 characters, no index
>2
byte
1
512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3bytex8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0
lelong0x864ab572psf2 screen font data
>12lelong&11with Unicode index
>16lelongx\b, %d glyphs
>28lelongx\b, %dx
>24lelongx\b%d
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!"#$%&'()*+,./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

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setleds.c setmetamode.c setvesablank.c showconsolefont.c
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Version 3, 29 June 2007

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Theodore Ts'o
23-June-2007

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

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

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

http://sourceforge.net/projects/e2fsprogs

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

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
In order to use this stub, the following makefile variables must be defined.

#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image::$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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

It is part of the main e2fsprogs distribution, which can be found at:
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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

 - trivial database library - private includes
 -
 - Copyright (C) Andrew Tridgell 2005
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 Gadi Oxman, August 1995

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system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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

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1.105 tar 1.32 r0

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1.110 llvm-project-source 7.1.0 r0

1.110.1 Available under license:

```c
#define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
    ; CHECK-LABEL: test_sitofp_fixed:
    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
    ; Next, convert each to double.
    ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
    ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
    ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
    ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
    ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
    ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
    ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
    ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
    ; CHECK: ret
    %flt = sitofp <16 x i32> %in to <16 x double>
    %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
    ret <16 x double> %res
}
```

; This one is small enough to satisfy isSimple, but still illegally large.
```c
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
    ; CHECK-LABEL: test_sitofp_fixed_shortish:
    ; CHECK-DAG: scvtf.2d v0, v0
    ; CHECK-DAG: scvtf.2d v1, v1
```
; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

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</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/[reg*, COPYRIGHT.regex]</td>
</tr>
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<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/[*_.data, LICENSE.TXT]</td>
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<td>md5 contributions</td>
<td>llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h</td>
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</tbody>
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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
lldbCore
lldbHost
lldbSymbol

LINK_COMPONENTS
Support)
);
RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246:
; preds = %CF246, %BB
%Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248:
; preds = %CF248, %CF246
store i8 %Sl163, i8* %0
br label %CF248
}

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<td>&lt;none yet&gt;</td>
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</table>

; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
    br i1 undef, label %while.end, label %while.body.lr.ph
  while.body.lr.ph:
    ; preds = %entry
    br label %while.body
  while.body:
    ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [%cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [
      i32 1, label %sw.bb.i
      i32 2, label %sw.bb3.i
    ]
  sw.bb.i:
    ; preds = %while.body
    unreachable
  sw.bb3.i:
    ; preds = %while.body
    unreachable
  exit:
    ; preds = %while.body
    switch i32 undef, label %exit.2 [
i32 1, label %sw.bb.i17
i32 2, label %sw.bb3.i20
]

sw.bb.i17: ; preds = %exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx

Open Source Used In XESDK 17.4-4.0.1 1 1506
 define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
}

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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

Open Source Used In XESDK 17.4-4.0.1 1 1539
; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d $[BLOCK0_HI:v[0-9]+], v0, #0
; CHECK-DAG: sshll2.2d $[BLOCK1_HI:v[0-9]+], v1, #0
; CHECK-DAG: sshll2.2d $[BLOCK2_HI:v[0-9]+], v2, #0
; CHECK-DAG: sshll2.2d $[BLOCK3_HI:v[0-9]+], v3, #0
; CHECK-DAG: sshll.2d $[BLOCK0_LO:v[0-9]+], v0, #0
; CHECK-DAG: sshll.2d $[BLOCK1_LO:v[0-9]+], v1, #0
; CHECK-DAG: sshll.2d $[BLOCK2_LO:v[0-9]+], v2, #0
; CHECK-DAG: sshll.2d $[BLOCK3_LO:v[0-9]+], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, $[BLOCK0_LO]
; CHECK-DAG: scvtf.2d v1, $[BLOCK0_HI]
; CHECK-DAG: scvtf.2d v2, $[BLOCK1_LO]
; CHECK-DAG: scvtf.2d v3, $[BLOCK1_HI]
; CHECK-DAG: scvtf.2d v4, $[BLOCK2_LO]
; CHECK-DAG: scvtf.2d v5, $[BLOCK2_HI]
; CHECK-DAG: scvtf.2d v6, $[BLOCK3_LO]
; CHECK-DAG: scvtf.2d v7, $[BLOCK3_HI]

; CHECK: ret
  %flt = sitofp <16 x i32> %in to <16 x double>
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
  ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
  %flt = sitofp <4 x i64> %in to <4 x double>
  %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
  ret <4 x double> %res
}

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</table>

;; RUN: llc -march=hexagon < %s
REQUIRES: asserts

;; The two loads based on %struct.0, loading two different data types
;; cause LSR to assume type "void" for the memory type. This would then
;; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
    entry:
    br i1 undef, label %while.end, label %while.body.lr.ph

    while.body.lr.ph: ; preds = %entry
    br label %while.body

    while.body: ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [
      i32 1, label %sw.bb.i
      i32 2, label %sw.bb3.i
    ]

    sw.bb.i: ; preds = %while.body
    unreachable

    sw.bb3.i: ; preds = %while.body
    unreachable

    exit: ; preds = %while.body
    switch i32 undef, label %exit.2 [
      i32 1, label %sw.bb.i17
      i32 2, label %sw.bb3.i20
    ]

    sw.bb.i17: ; preds = %exit
    %0 = bitcast %struct.0* %lsr.iv to i32*
    %1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
lldbCore
lldbHost
lldbSymbol
LINK_COMPONENTS
Support
)

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; RUN: llc -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s

; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

; CHECK-LABEL: TestFabs:
; CHECK andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

; CHECK-LABEL: TestCopysign:
; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0

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

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

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The header `<boost/mp11/mpl.hpp>`, when included, defines the
necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link:../../../../libs/mpl

NOTE: `mpl.hpp` is not included by `boost/mp11.hpp`.

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsofswaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar.kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregor -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un5of6n902 -at- sneakeemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando.cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando.cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnmann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcny.r.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert.holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jii (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Winternmantel (winternmantel -at- imes.mavt.ethz.ch, winternmantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M. Josuttis (solutions-at-josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm-at-sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57-at-comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba-at-topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum-at-RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland-at-fill.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz-at-chello.at)
Ronald Garcia (garcia-at-cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempf (krempp-at-crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld-at-sympatico.ca)
Stephen Cleary (sceary-at-jervisweb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion -at- sophia.inria.fr)
The Trustees of Indiana University ()
Thomas Witt (witt-at-ive.uni-hannover.de, witt-at-acm.org, witt-at-styleadvisor.com)
Thorsten Jorgen Ottosen (nesotto-at-cs.auc.dk)
Thorsten Ottosen (nesotto-at-cs.auc.dk)
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William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)
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------------------------------------------------------------------------

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

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
              traditional one-character options, and GNU'ish
              --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
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1.123 python-attrs 19.2.0 r0
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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

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Gocheck - A rich testing framework for Go

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

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

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

6. As an exception to the Sections above, you may also combine or
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Riccardo Magliocchetti
Yann Malet, Lincoln Loop
Simon Litchfield
Masahiro Honma, <hiratara@cpan.org>
ukasz Wrblewski <admin@nri.pl>
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Danila Shtan <danila@shtan.ru>
var Arnfjr Bjarmason
Yu Zhao (getcwd)
Mathieu Dupuy
Adriano Di Luzio (adriano@unbit.it)
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Vladimir Didenko

1.133 libhugetlbfs 2.21 r0

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

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1.140 tcp-dump 4.9.3 r0

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1.141 libnss-mdns 0.10 r7

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1.144 python-importlib-metadata 0.23 r0

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1.145 netkit-rsh 0.17 r0

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1.146 grub 2.04 r0

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1.148 json-c 0.13.1 r0

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1.149 pm-utils 1.4.1 r1

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1.156 python3-iso8601 0.1.12 r0

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1.158 python3-py 1.8.0 r0
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1.159 libxml-parser-perl 2.44 r0

1.160 httping 2.5 r0

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1.161 stunserver 1.2.15 r0

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1.162 libroxml 2.3.0 r0

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iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

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If you've contributed to gas and your name isn't listed here, it is
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This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at Intellicorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you’ve contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren’t intentionally leaving anyone out.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

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

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

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

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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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```
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1.175 python3-attrs 19.3.0 r0

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### 1.177 flex 2.6.0 r0

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1.178 python3-pycrypto 2.6.1 r0

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~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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Hi Jeethu,

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

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--amk                     (www.amk.ca)

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

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

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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=rwsa; c=relaxed/relaxed;
  d=dlitz.com; s=gamma;
  h=domainkey-signature:mime-version:received:in-reply-to:references:
    :date:message-id:subject:from:to:content-type;
  bh=YWv9U32WCU/k5RqukHwaoOZyJQBUx4Yvt5ml20U6mJg=;
  b=omJl22lxYJg2ZuNJW3rUUi9LqFXmey5Wp0pLtujNFS+X3duyfhopTuBAKW7MwYY
B5f6VQgVGEyBbNsctyVGq6QHiQTouCLZymSiobmuDmKsDtUK0xpDk0xCxQmHYaas
L9/A6D3/J66krZrNBgX9mc0GPeZTviVFYykPR0Q=
DomainKey-Signature: a=rwsa; c=relaxed/relaxed;
  d=dlitz.com; s=gamma;
  h=mime-version:in-reply-to:references:date:message-id:subject:from:to:
    :content-type;
  bh=Yo7CSruEFJKay1AlyWZKZmJA11nTcwC6aKBAAXLld8ht6PFcmlslfzzZG8hJCIJf8
vljqt+G6cywVTBw1pyGX7ECYyzr0+vhGvdpACGr524zkhHpSSd5GFogzXaLVvGVH8p
bqSHpfWKkEP4gAQkiNeiq1GNrR2jU3fnRyg=
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,
> 
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> working on a new release at http://www.pycrypto.org/.
> 
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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)

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

Regards,
- Dwayne

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

--
Jeethu Rao

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

Hi Dwayne,
My contribution to pycrypto are very very minimal (The sha256
module, IIRC). I'd be fine with the public domain license for
or PyCrypto.

PS: Apologies for the delay in my response. =A0

Open Source Used In XESDK 17.4-4.0.1 1 2413
I don't really check this email address all that often.

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-- Dwayne

Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>

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

-- Jeethu Rao
-----BEGIN PGP SIGNED MESSAGE-----

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

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

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

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

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

-----END PGP SIGNED MESSAGE-----
Hi Mark,

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---

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Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

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

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QtTPcsKbTljKjPxr
d+q0E7eE8VtnvijUCtAR9o27yyzOPxdFT864MQA7OTSbPK39aGAgaA4fgAgvYH9t
UNjJ/kv8QLz/aq2fH/HNjrwnqFnu0uqwpoOrQGBz8Y+SGpVh1gKqy1Ju45L+doq
sxbzCOpjgR2zDdNR/2SuFmDWXVv8dSeonwIHpQDFlt8/LVA/gHiTDmteQ10hJQ6o
XYhY+HbRjsD74I/GSp0t9Hj5ln0UghF0lIndnNSAvWF4aPyh5KCN7ho+/BC0v/
W/pqSSIPkwmblpHoOtTkNc0qKLAXHqMGJNhO8AkrYZ0yJksb0HsA==
=3OlX

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

From dlitz@dlitz.net Sat Apr 18 09:14:20 2009
Date: Sat, 18 Apr 2009 09:14:20 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Mark Moraes <moraes@computer.org>
Subject: PyCrypto license clarification
Message-ID: <20090418131419.GA14494@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2635
Open Source Used In XESDK 17.4-4.0.1 1  2419

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--
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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 5D9AE984FD
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

====================================================================
Hi Dwayne.

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

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

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
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>
> -- Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key - 19E1
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

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

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

--
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Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
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
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I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

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From dlitz@dlitz.net Tue May  5 17:53:47 2009
Date: Tue, 5 May 2009 17:53:47 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: joris@bontje.nl
Subject: Re: PyCrypto license clarification
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>
References: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
X-Primary-Address: dlitz@dlitz.net
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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

Developer's Certificate of Origin 1.1

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

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

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

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

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

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

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

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

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

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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, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.
I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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

Regards,
- Dwayne

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

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
    for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
    for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003);  3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
    by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
    for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
    :from:date:message-id:subject:to:content-type
    :content-transfer-encoding;
b=AvR1OHBE0TNrbiKS5qOHJ34Wb1Z+b0cuPeuoKA4pCpWz6c=;
b=gyTqRkHlKlFkIZmbW8sRbMNVDq1PWJ0byC0EvxPskaoHr3HAR96MWQNBPe40Ac
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

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

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0may I, on your behalf, dedicate to the pu=
> blic
> domain all your contributions to PyCrypto, with the following notice?
>
> =C2=A0The contents of this file are dedicated to the public domain. =C2=A0To
> the public, =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusi
> ve license
Yes, that's fine. Good luck with the new release!

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

From dlitz@dlitz.net Mon Aug  3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
              <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: 8bit
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>
>> I am the new maintainer of the Python Cryptography Toolkit, and I am
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That's great!

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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

The 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.

---

Open Source Used In XESDK 17.4-4.0.1 I 2437
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<th>Owner</th>
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</tr>
</tbody>
</table>

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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>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

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

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
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> following dedication for his contributions.
> >
> > May I, on your behalf, dedicate to the public domain all your
> > contributions to PyCrypto, with the following notice?
> >
> > =
> > ==============================================================
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> > the
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> > license
> > to exercise all rights associated with the contents of this file
> > for
> > any purpose whatsoever. No rights are reserved.
> >
> > =
> > ==============================================================
> >
> In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

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SH8AolJgaq1li7/ZYDc+/Cd8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----
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".)

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

--amk (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a more

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clearer licensing regime. I'm asking as many copyright holders as I can=20 find, starting with you, if I can release PyCrypto under something clearer=20 and more standard. Below, I have quoted a public domain dedication that=20 was recommended in _Intellectual Property and Open Source: A Practical=20 Guide to Protecting Code_, by Van Lindberg.

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

```
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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

--=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

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Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

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

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
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.
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
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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.

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

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)

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wrPEa9Oui9s=
=ZSY9
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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===================================================================

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--amk (www.amk.ca)

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

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Regards,
- Dwayne

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

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
   by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
   for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 11:29:39 -0500 (EST)
   Received: from localhost (localhost [127.0.0.1])
   by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
   for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 10:29:39 -0600 (CST)
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   by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
   for <dlitz@dlitz.net>; Mon,  2 Mar 2009 10:29:38 -0600 (CST)
   Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
   by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
   for <dlitz@dlitz.net>; Mon,  2 Mar 2009 11:29:35 -0500 (EST)
   Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
   From: Barry Warsaw <barry@python.org>
   To: Dwayne C. Litzenberger <dlitz@dlitz.net>
   In-Reply-To: <20090303024509.GA13195@rivest.dlitz.net>
   Content-Type: text/plain; charset=US-ASCII; format=floated; delsp=yes
   Content-Transfer-Encoding: quoted-printable
   Mime-Version: 1.0 (Apple Message framework v930.3)
   Subject: Re: PyCrypto license clarification

Open Source Used In XESDK 17.4-4.0.11 2449
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

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJhnEjvBptmXiVACLZjgP/ceG+JdZwNvPlRf6TdhY6+MHLDHI6agk
evJnSjQAcVHIzvIvVeR5lXgvDUMakZjU4SOV7MqkhsKA9ll6et7PaD9VSYgn3ra5
gElw12DQDoOy5GExXMm74qgrrb1PCCbCRmnaYNo+dZohwHkeFBjbwDRA3wItOrH7
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
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* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* *
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* *
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* *
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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M. Welsh, 6 July 1996

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[This is the first released version of the library GPL. It is
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1.181 nghttp2 1.39.2 r0
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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.182 go git r0

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1.183 libedit 20190324-3.1 r0

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1.184 gflags 2.2.2 r0
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1.185 python3-cffi 1.14.0 r0

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1.186 protobuf 3.9.2 r0

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This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:
Sanjay Ghemawat <sanjay@google.com>
Jeff Dean <jeff@google.com>
Daniel Dulitz <daniel@google.com>
Craig Silverstein
Paul Haahr <haahr@google.com>
Corey Anderson <corin@google.com>
(and many others)

Proto2 C++ and Java primary author:
Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Java Nano primary authors:
Brian Duff <bduff@google.com>
Tom Chao <chaot@google.com>
Max Cai <maxtroy@google.com>
Ulas Kirazci <ulas@google.com>

Large code contributions:
Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>
Large quantity of code reviews:
Scott Bruce <sbruce@google.com>
Frank Yellin
Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambrose Feinstein <ambrose@google.com>

Documentation:
Lisa Carey <lcarey@google.com>

Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
   * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
   * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
   * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
   * VI syntax highlighting tweaks.
   * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
   * Heuristic detection of sub-messages when printing unknown fields in text format.
Brian Atkinson <nairb774@gmail.com>
   * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
   * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
   * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>
   * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
   * MS Visual Studio error format option.
   * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
   * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
   * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
   * Added generation of field number constants.
Wink Saville <wink@google.com>
   * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
   * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xLC compiler build issues
* Added atomicops for AIX (POWER)

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1.187 python-cffi 1.12.3 r0

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1.188 python-iso8601 0.1.12 r0

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1.189 update-rc-d 0.8 r0

1.190 ipcalc 0.2.3 r0

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1.191 opkg-utils 0.4.2 r0

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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lb.ph

  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lb.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

  %sw.bb.i: ; preds = %while.body
    unreachable

  %sw.bb3.i: ; preds = %while.body
    unreachable

  exit: ; preds = %while.body
    switch i32 undef, label %exit.2 [
      i32 1, label %sw.bb.i17
      i32 2, label %sw.bb3.i20
    ]
sw.bb.i17: ; preds = %.exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
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<th>Program</th>
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Albert Pretorius <pretoalb@gmail.com>
Arne Beer <arne@twobeer.de>
Billy Robert O'Neal III <billy.oneal@gmail.com> <bion@microsoft.com>
Chris Kennelly <ckennelly@google.com> <ckennelly@ckennelly.com>
Christopher Seymour <chris.j.seymour@hotmail.com>
David Coeurjolly <david.coeurjolly@liris.cnrs.fr>
Deniz Evrenci <denizevrenci@gmail.com>
Dominic Hamon <dma@stripysock.com> <dominic@google.com>
Dominik Czarnota <dominik.b.czarnota@gmail.com>
Eric Fiselier <eric@efcs.ca>
Eugene Zhuk <eugene.zhuk@gmail.com>
Evgeny Safronov <division494@gmail.com>
Federico Ficarelli <federico.ficarelli@gmail.com>
Felix Homann <linuxaudio@showlabor.de>
Ismael Jimenez Martinez <ismael.jimenez.martinez@gmail.com>
Jern-Kuan Leong <jernkuan@gmail.com>
JianXiong Zhou <zhoujianxiong2@gmail.com>
Joao Paulo Magalhaes <joaooppmagalhaes@gmail.com>
John Millikin <jmillikin@stripe.com>
Jussi Knuuttila <jussi.knuuttila@gmail.com>
Kai Wolf <kai.wolf@gmail.com>
Kishan Kumar <kumar.kishan@outlook.com>
Kaito Udagawa <umireon@gmail.com>
Lei Xu <eddyxu@gmail.com>
Matt Clarkson <mattyclarkson@gmail.com>
Maxim Vafin <maxvafin@gmail.com>
Nick Hutchinson <nshutchinson@gmail.com>
Oleksandr Sochka <sasha.sochka@gmail.com>
Pascal Leroy <phil@google.com>
Paul Redmond <paul.remond@gmail.com>
Pierre Phaneuf <pphaneuf@google.com>
Radoslav Yovchev <radoslav.tm@gmail.com>
Raul Marin <rmrodriguez@cartodb.com>
Ray Glover <ray.glover@uk.ibm.com>
Robert Guo <robert.guo@mongodb.com>
Roman Lebedev <lebedev.ri@gmail.com>
Shuo Chen <chenshuo@chenshuo.com>
Tobias Ulvgd <tobias.ulvgard@dirac.se>
Tom Madams <tom.ej.madams@gmail.com> <tmadams@google.com>
Yixuan Qiu <yixuanq@gmail.com>
Yusuke Suzuki <yusuke.tea@gmail.com>
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; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s 
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34 
br label %CF246

CF246: ; preds = %CF246, %BB
%Sl163 = select i1 %Cmp56, i8 %L34, i8 undef 
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %Sl163, i8* %0 
br label %CF248
}
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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
lldbCore
lldbHost
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
    ; Next, convert each to double.
    ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
    ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
    ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
    ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
    ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
    ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
    ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
    ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

    ; CHECK: ret
    %flt = sitofp <16 x i32> %in to <16 x double>
    %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
    ret <16 x double> %res
}

define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
    ; First, extend each i32 to i64
    ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
    ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
    ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
    ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
    ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
    ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
    ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
    ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

    ; CHECK: ret
    %flt = sitofp <4 x i64> %in to <4 x double>
    %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
    ret <4 x double> %res
}
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s :
; D31946
; Check that we don't end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK      andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK      andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK      movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

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<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
</tr>
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1.197 python3-pygobject 3.34.0 r0

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    # Contributions to the urllib3 project

    ## Creator & Maintainer

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

    ## Contributors

    In chronological order:

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

    * erikcederstrand <http://code.google.com/u/erikcederstrand/>
      * NTLM-authenticated HTTPSConnectionPool
    * niphlod <niphlod@gmail.com>
      * Client-verified SSL certificates for HTTPSConnectionPool
      * Response gzip and deflate encoding support
      * Better unicode support for filepost using StringIO buffers

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

    * p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
      * Code review, PEP8 compliance, benchmark fix

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.
* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.
* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/> 
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

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

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

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

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

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

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

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

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

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

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

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ``HTTPResponse.geturl`` method to provide ``urlib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings
* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.201 ethtool 5.2 r0

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1.202 python-py 1.8.0 r0

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1.203 pixman 0.38.4 r0

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1.204 pps-tools 1.0.2 r0

1.205 ccid 1.4.30 r0
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1.206 python-idna 2.8 r0
1.206.1 Available under license :
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A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

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

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

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

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
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        ]
    }

    setup(**arguments)
```

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'License :: OSI Approved :: BSD License',
'Operating System :: OS Independent',
'Programming Language :: Python',
'Programming Language :: Python :: 2',
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'Programming Language :: Python :: 3.5',
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'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
]
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1084376762_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/setup.py
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* /opt/ws_local/PERMITS_SQL/1084376762_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO
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1.207 bzip2 1.0.8 r0
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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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

1.208 linux-kernel v4.4.172 f246810c88cf

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

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

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

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"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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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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for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
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for the nxt2004 frontend driver
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Version 1.0

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src/fparseln.c

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man/readpassphrase.3bsd
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man/strtonum.3bsd
src/arc4random.c
src/arc4random_unix.h
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
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---

**1.215 python3-certifi 2019.11.28 r0**

**1.215.1 Available under license:**
This package contains a modified version of ca-bundle.crt:

```
ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#
```

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```
@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
```
1.216 python-pyasn1 0.4.7 r0

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# License: http://snmplabs.com/pyasn1/license.html

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* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/codec/native/decoder.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/codec/der/test_encoder.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/type/useful.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/tests/codec/der/test_decoder.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/binary.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/error.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/string.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/calling.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/integer.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/char.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/namedval.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/calling.py
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* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/string.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/binary.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/integer.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/char.py
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* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/calling.py
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* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/string.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/compat/binary.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/debug.py
* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/pyasn1/test.py

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* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0.4.7/tar-gz/pyasn1-0.4.7/egg-info/PKG-INFO

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Abstract Syntax Notation One (\`ASN.1\`<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The \`pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting \`discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's \`ProtoBuffers <https://developers.google.com/protobuf>`_ or \`FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as
recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

   /pyasn1/contents

Use case
-------

.. toctree::
Download & Install
-------------

.. toctree::
   :maxdepth: 2

/download

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
   :maxdepth: 1

/changelog

License
-------

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.. toctree::
   :maxdepth: 2

/license

Getting help
------------


Books on ASN.1
------------
The pyasn1 implementation is largely based on reading up the following awesome books:

* "ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>" by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0-4-7.tar.gz/pyasn1-0.4.7/docs/source/contents.rst

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ASN.1 library for Python
------------------------

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
By Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id       INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType(
      'room', Integer().subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
      )
    ),
    DefaultedNamedType(
      'house', Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
      )
    )
  )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 ‘SET’ is similar to Python `dict`, `SET OF` to `list`):
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())

```python
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))

id is 123
room is 321

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:
```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```  
Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
  id=123
  room=321
  >>>
```  
With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question on Stack Overflow([https://stackoverflow.com/questions/ask](https://stackoverflow.com/questions/ask)) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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1.217 rrdtool 1.7.2 r0

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

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

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Koperek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
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Miller, Dworkin
Nieuwma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
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Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sánchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarz, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

- Albuquerque, Pedro
- Blittermann, Mario
- Bogusz, Jakub
- Buo-ren, Lin
- Casagrande, Milo
- Castro, Felipe
- Cho, Seong-ho
- Chornoivan, Yuri
- Diguez, Francisco
- Fontenelle, Rafael
- Garca-Fontes, Walter
- Gezer, Volkan
- Hamasaki, Takeshi
- Hamming, Peter
- Hansen, Joe
- Hantrais, Frédric
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- Hufthammer, Karl Ove
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- Karvonon, Jorma
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1.235 python-decorator 4.4.0 r0

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1.236 python3-pycparser 2.20 r0

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1.237 bridgeutils 1.6 r0

1.238 gnome-desktop-testing 2018.1 r0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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

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

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.

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

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

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

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

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

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
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.

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1.240 fuse 2.9.9 r0

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
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1.243 icu 64.2 r0

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n | sed "\"s/(.*)/\1.o $@ : /g\" > $@;\n [ -s $@ ] || rm -f $@' 
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n | sed "\"s/(.*)/\1.o $@ : /g\" > $@;\n [ -s $@ ] || rm -f $@' 

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.244 dmidecode 3.2 r0
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1.245 python3-packaging 19.2 r0

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1.246 m4 1.4.18 r0
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/* GNU m4 -- A simple macro processor

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*/

#include "m4.h"

#include <getopt.h>
#include <limits.h>
#include <signal.h>

#include "c-stack.h"
#include "ignore-value.h"
#include "progname.h"
#include "version-etc.h"

#ifndef DEBUG_STKOVF
#include "assert.h"
#endif

#define AUTHORS "Rene' Seindal"

static void usage (int) M4_GNUC_NORETURN;

/* Enable sync output for/lib/cpp (-s). */
int sync_output = 0;

/* Debug (-d[flags]). */
int debug_level = 0;

/* Hash table size (should be a prime) (-Hsize). */
size_t hash_table_size = HASHMAX;

/* Disable GNU extensions (-G). */
int no_gnu_extensions = 0;

/* Prefix all builtin functions by `m4_`. */
int prefix_all_builtins = 0;

/* Max length of arguments in trace output (-lsize). */
int max_debug_argument_length = 0;

/* Suppress warnings about missing arguments. */
int suppress_warnings = 0;

/* If true, then warnings affect exit status. */
static bool fatal_warnings = false;

/* If not zero, then value of exit status for warning diagnostics. */
int warning_status = 0;

/* Artificial limit for expansion_level in macro.c. */
int nesting_limit = 1024;

#ifndef ENABLE_CHANGEWORD
/* User provided regexp for describing m4 words. */
const char *user_word_regexp = ""
#endif

/* Global catchall for any errors that should affect final error status, but"
where we try to continue execution in the meantime. */
int retcode;

struct macro_definition
{
    struct macro_definition *next;
    int code; /* D, U, s, t, \1, or DEBUGFILE_OPTION. */
    const char *arg;
};
typedef struct macro_definition macro_definition;

/* Error handling functions. */

/*-----------------------.
 | Wrapper around error. |
 `-----------------------*/

void
m4_error (int status, int errnum, const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, current_line ? current_file : NULL,
                   current_line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

/*-----------------------.
 | Wrapper around error_at_line. |
 `-----------------------*/

void
m4_error_at_line (int status, int errnum, const char *file, int line,
                   const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, line ? file : NULL, line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

#ifndef SIGBUS
#define SIGBUS SIGILL
#endif
ifndef NSIG
ifndef MAX
#define MAX(a,b) ((a) < (b) ? (b) : (a))
#endif
#define NSIG (MAX (SIGABRT, MAX (SIGILL, MAX (SIGFPE, MAX (SIGSEGV, SIGBUS)))) + 1)
#endif

/* Pre-translated messages for program errors. Do not translate in the signal handler, since gettext and strsignal are not async-signal-safe. */
static const char * volatile program_error_message;
static const char * volatile signal_message[NSIG];

/* Print a nicer message about any programmer errors, then exit. This must be async-signal safe, since it is executed as a signal handler. If SIGNO is zero, this represents a stack overflow; in that case, we return to allow c_stack_action to handle things. */
static void M4_GNUC_PURE fault_handler (int signo)
{
if (signo)
{
/* POSIX states that reading static memory is, in general, not async-safe. However, the static variables that we read are never modified once this handler is installed, so this particular usage is safe. And it seems an oversight that POSIX claims strlen is not async-safe. Ignore write failures, since we will exit with non-zero status anyway. */
#define WRITE(f, b, l) ignore_value (write (f, b, l))
WRITE (STDERR_FILENO, program_name, strlen (program_name));
WRITE (STDERR_FILENO, ": ", 2);
WRITE (STDERR_FILENO, program_error_message, strlen (program_error_message));
if (signal_message[signo])
{
WRITE (STDERR_FILENO, ": ", 2);
WRITE (STDERR_FILENO, signal_message[signo], strlen (signal_message[signo]));
}
WRITE (STDERR_FILENO, ":\n", 1);
#undef WRITE
_exit (EXIT_INTERNAL_ERROR);
}
}
static void
usage (int status)
{
    if (status != EXIT_SUCCESS)
        xfprintf (stderr, "Try `%s --help' for more information.

    else
    {
        xfprintf ("Usage: %s [OPTION]... [FILE]..n", program_name);
        fputs ("\n
    Mandatory or optional arguments to long options are mandatory or optional\n
    for short options too.n\n
    Operation modes:\n\n        --help display this help and exit\n
        --version output version information and exit\n
   ", stdout);
        xfprintf ("\n-E, --fatal-warnings once: warnings become errors, twice: stop\n\n        execution at first error\n\n    -i, --interactive unbuffer output, ignore interrupts\n\n    -P, --prefix-builtins force a `m4_' prefix to all builtins\n\n    -Q, --quiet, --silent suppress some warnings for builtins\n\n        --warn-macro-sequence [=REGEXP]\n            warn if macro definition matches REGEXP, default %s\n            
        \n        
    --warn-macro-sequence\n\n        #ifdef ENABLE_CHANGEWORD
        fputs ("\n-W, --word-regexp=REGEXP use REGEXP for macro name syntax\n\n    
    #endif

    Preprocessor features:\n\n    -D, --define=NAME [=VALUE] define NAME as having VALUE, or empty\n\n    -I, --include=DIRECTORY append DIRECTORY to include path\n\n    -s, --synclines generate `#line NUM "FILE"' lines\n\n    -U, --undefine=NAME undefine NAME\n\n    ")
Limits control:

- `--gnu` override `-G` to re-enable GNU extensions
- `--traditional` suppress all GNU extensions
- `--hashsize=PRIME` set symbol lookup hash table size [509]
- `--nesting-limit=NUMBER` change nesting limit, 0 for unlimited

Frozen state files:

- `--freeze-state=FILE` produce a frozen state on FILE at end
- `--reload-state=FILE` reload a frozen state from FILE at start

Debugging:

- `--debug[=FLAGS]` set debug level (no FLAGS implies `aeq`)
- `--debugfile[=FILE]` redirect debug and trace output to FILE
- `--arglength=NUM` restrict macro tracing size
- `--trace=NAME` trace NAME when it is defined

FLAGS is any of:

- `a` show actual arguments
- `c` show before collect, after collect and after call
- `e` show expansion
- `f` say current input file name
- `i` show changes in input files
- `l` say current input line number
- `p` show results of path searches
- `q` quote values as necessary, with a or e flag
- `t` trace for all macro calls, not only traceon'ed
- `x` add a unique macro call id, useful with c flag
- `V` shorthand for all of the above flags

If defined, the environment variable `M4PATH` is a colon-separated list of directories included after any specified by `-I`.

Exit status is 0 for success, 1 for failure, 63 for frozen file version mismatch, or whatever value was passed to the m4exit macro.
emit_bug_reporting_address();
}
exit (status);
}

/*-----------------------------*/
| Decode options and launch execution. |
`-----------------------------*/

/* For long options that have no equivalent short option, use a
non-character as a pseudo short option, starting with CHAR_MAX + 1. */
enum
{
DEBUGFILE_OPTION = CHAR_MAX + 1,    /* no short opt */
DIVERSIONS_OPTION,                  /* not quite -N, because of message */
WARN_MACRO_SEQUENCE_OPTION,         /* no short opt */
HELP_OPTION,                        /* no short opt */
VERSION_OPTION                      /* no short opt */
};

static const struct option long_options[] =
{
{"arglength", required_argument, NULL, 'l'},
{"debug", optional_argument, NULL, 'd'},
{"define", required_argument, NULL, 'D'},
{"error-output", required_argument, NULL, 'o'}, /* FIXME: deprecate in 2.0 */
{"fatal-warnings", no_argument, NULL, 'E'},
{"freeze-state", required_argument, NULL, 'F'},
{"gnu", no_argument, NULL, 'g'},
{"hashsize", required_argument, NULL, 'H'},
{"include", required_argument, NULL, 'I'},
{"interactive", no_argument, NULL, 'i'},
{"nesting-limit", required_argument, NULL, 'L'},
{"prefix-builtins", no_argument, NULL, 'P'},
{"quiet", no_argument, NULL, 'Q'},
{"reload-state", required_argument, NULL, 'R'},
{"silent", no_argument, NULL, 'Q'},
{"synclines", no_argument, NULL, 's'},
{"trace", required_argument, NULL, 't'},
{"traditional", no_argument, NULL, 'G'},
{"undefine", required_argument, NULL, 'U'},
#ifdef ENABLE_CHANGEWORD
{"word-regexp", required_argument, NULL, 'W'},
#endif
{"debugfile", optional_argument, NULL, DEBUGFILE_OPTION},
{"diversions", required_argument, NULL, DIVERSIONS_OPTION},
/* Process a command line file NAME, and return true only if it was stdin. */
static void
process_file (const char *name)
{
  if (STREQ (name, "-"))
  {
    /* If stdin is a terminal, we want to allow 'm4 - file -'
      to read input from stdin twice, like GNU cat. Besides,
      there is no point closing stdin before wrapped text, to
      minimize bugs in syscmd called from wrapped text. */
    push_file (stdin, "stdin", false);
  }
  else
  {
    char *full_name;
    FILE *fp = m4_path_search (name, &full_name);
    if (fp == NULL)
    {
      error (0, errno, _("cannot open `%s'"), name);
      /* Set the status to EXIT_FAILURE, even though we
       continue to process files after a missing file. */
      retcode = EXIT_FAILURE;
      return;
    }
    push_file (fp, full_name, true);
    free (full_name);
    expand_input ();
  }
}

/* POSIX requires only -D, -U, and -s; and says that the first two
must be recognized when interspersed with file names. Traditional
behavior also handles -s between files. Starting OPTSTRING with
'-' forces getopt_long to hand back file names as arguments to opt
'\1'; rather than reordering the command line. */
#ifdef ENABLE_CHANGEWORD
#else
#endif
int
main (int argc, char *const *argv)
{
    struct sigaction act;
    macro_definition *head;       /* head of deferred argument list */
    macro_definition *tail;
    macro_definition *defn;
    int optchar;                  /* option character */

    macro_definition *defines;
    bool interactive = false;
    bool seen_file = false;
    const char *debugfile = NULL;
    const char *frozen_file_to_read = NULL;
    const char *frozen_file_to_write = NULL;
    const char *macro_sequence = "";

    set_program_name (argv[0]);
    retcode = EXIT_SUCCESS;
    atexit (close_stdin);

    include_init ();
    debug_init ();

    /* Stack overflow and program error handling. Ignore failure to
     * install a handler, since this is merely for improved output on
     * crash, and we should never crash ;). We install SIGBUS and
     * SIGSEGV handlers prior to using the c-stack module; depending on
     * the platform, c-stack will then override none, SIGSEGV, or both
     * handlers. */
    program_error_message
        = xasprintf (_("internal error detected; please report this bug to <\%s>"),
                      PACKAGE_BUGREPORT);
    signal_message[SIGSEGV] = xstrdup (strsignal (SIGSEGV));
    signal_message[SIGABRT] = xstrdup (strsignal (SIGABRT));
    signal_message[SIGILL] = xstrdup (strsignal (SIGILL));
    signal_message[SIGFPE] = xstrdup (strsignal (SIGFPE));
    if (SIGBUS != SIGILL && SIGBUS != SIGSEGV)
        signal_message[SIGBUS] = xstrdup (strsignal (SIGBUS));
    sigemptyset (&act.sa_mask);
    /* One-shot - if we fault while handling a fault, we want to revert
     * to default signal behavior. */
    act.sa_flags = SA_NODEFER | SA_RESETHAND;
    act.sa_handler = fault_handler;
    sigaction (SIGSEGV, &act, NULL);
    sigaction (SIGABRT, &act, NULL);
sigaction (SIGILL, &act, NULL);
sigaction (SIGFPE, &act, NULL);
sigaction (SIGBUS, &act, NULL);
if (c_stack_action (fault_handler) == 0)
    nesting_limit = 0;

#ifdef DEBUG_STKOVF
/* Make it easier to test our fault handlers. Exporting M4_CRASH=0 attempts a SIGSEGV, exporting it as 1 attempts an assertion failure with a fallback to abort. */
{
    char *crash = getenv ("M4_CRASH");
    if (crash)
    {
        if (!strtol (crash, NULL, 10))
            ++(*(int *) 8);
        assert (false);
        abort (false);
    }
}
#endif /* DEBUG_STKOVF */

/* First, we decode the arguments, to size up tables and stuff. */
head = tail = NULL;

while ((optchar = getopt_long (argc, (char **) argv, OPTSTRING,
    long_options, NULL)) != -1)
switch (optchar)
{
    default:
        usage (EXIT_FAILURE);

    case 'B':
    case 'S':
    case 'T':
        /* Compatibility junk: options that other implementations support, but which we ignore as no-ops and don't list in --help. */
        error (0, 0, _("warning: m4-%c may be removed in a future release"),
            optchar);
        break;

    case 'N':
    case DIVERSIONS_OPTION:
        /* -N became an obsolete no-op in 1.4.x. */
        error (0, 0, _("warning: m4-%c is deprecated"),
            optchar == 'N' ? "-N" : "--diversions");
        break;
case 'D':
case 'U':
case 's':
case 't':
case 'l':
case DEBUGFILE_OPTION:
    /* Arguments that cannot be handled until later are accumulated. */
    defn = (macro_definition *) xmalloc (sizeof (macro_definition));
    defn->code = optchar;
    defn->arg = optarg;
    defn->next = NULL;
    if (head == NULL)
        head = defn;
    else
        tail->next = defn;
    tail = defn;
    break;

case 'E':
    if (! fatal_warnings)
        fatal_warnings = true;
    else
        warning_status = EXIT_FAILURE;
    break;

case 'F':
    frozen_file_to_write = optarg;
    break;

case 'G':
    no_gnu_extensions = 1;
    break;

case 'H':
    hash_table_size = strtol (optarg, NULL, 10);
    if (hash_table_size == 0)
        hash_table_size = HASHMAX;
    break;

case 'I':
    add_include_directory (optarg);
    break;

case 'L':
nesting_limit = strtol(optarg, NULL, 10);
break;

case 'P':
    prefix_all_builtins = 1;
    break;

case 'Q':
    suppress_warnings = 1;
    break;

case 'R':
    frozen_file_to_read = optarg;
    break;

#ifdef ENABLE_CHANGEWORD
    case 'W':
        user_word_regexp = optarg;
        break;
#endif

case 'd':
    debug_level = debug_decode(optarg);
    if (debug_level < 0)
        {
            error (0, 0, _("bad debug flags: `%s'"), optarg);
            debug_level = 0;
        }
    break;

case 'e':
    error (0, 0, _("warning: `m4 -e' is deprecated, use `-i' instead")); /* fall through */
    case 'i':
        interactive = true;
        break;

case 'g':
    no_gnu_extensions = 0;
    break;

case 'l':
    max_debug_argument_length = strtol(optarg, NULL, 10);
    if (max_debug_argument_length <= 0)
        max_debug_argument_length = 0;
    break;

    case 'o':
/* -o/--error-output are deprecated synonyms of --debugfile, 
  but don't issue a deprecation warning until autoconf 2.61 
or later is more widely established, as such a warning 
would interfere with all earlier versions of autoconf. */
/* Don't call debug_set_output here, as it has side effects. */
default (debugfile = optarg);
break;

case WARN_MACRO_SEQUENCE_OPTION:
/* Don't call set_macro_sequence here, as it can exit. 
--warn-macro-sequence sets optarg to NULL (which uses the 
default regexp); --warn-macro-sequence= sets optarg to "" 
(which disables these warnings). */
macro_sequence = optarg;
break;

case VERSION_OPTION:
version_etc (stdout, PACKAGE, PACKAGE_NAME, VERSION, AUTHORS, NULL);
exit (EXIT_SUCCESS);
break;

case HELP_OPTION:
usage (EXIT_SUCCESS);
break;
}

defines = head;

/* Do the basic initializations. */
if (debugfile && !debug_set_output (debugfile))
  M4ERROR ((warning_status, errno, "cannot set debug file `%s'", debugfile));

input_init ();
output_init ();
symtab_init ();
set_macro_sequence (macro_sequence);
include_env_init ();

if (frozen_file_to_read)
  reload_frozen_state (frozen_file_to_read);
else
  builtin_init ();

/* Interactive mode means unbuffered output, and interrupts ignored. */

if (interactive)
{
  signal (SIGINT, SIG_IGN);
setbuf (stdout, (char *) NULL);
}

/* Handle deferred command line macro definitions. Must come after
   initialization of the symbol table. */

while (defines != NULL)
{
    macro_definition *next;
    symbol *sym;

    switch (defines->code)
    {
    case 'D':
        {
           /* defines->arg is read-only, so we need a copy. */
           char *macro_name = xstrdup (defines->arg);
           char *macro_value = strchr (macro_name, '=');
           if (macro_value)
                *macro_value++ = '\0';
           define_user_macro (macro_name, macro_value, SYMBOL_INSERT);
           free (macro_name);
        }
        break;
    case 'U':
        lookup_symbol (defines->arg, SYMBOL_DELETE);
        break;
    case 't':
        sym = lookup_symbol (defines->arg, SYMBOL_INSERT);
        SYMBOL_TRACED (sym) = true;
        break;
    case 's':
        sync_output = 1;
        break;
    case '\l':
        seen_file = true;
        process_file (defines->arg);
        break;
    case DEBUGFILE_OPTION:
        if (!debug_set_output (defines->arg))
            M4ERROR ((warning_status, errno, "cannot set debug file \"%s\"",
                         debugfile ? debugfile : (_("stderr"))));
        break;
    }
default:
    M4ERROR ((0, 0, "INTERNAL ERROR: bad code in deferred arguments"));
    abort ();
}

next = defines->next;
free (defines);
defines = next;
}

/* Handle remaining input files. Each file is pushed on the input, 
and the input read. Wrapup text is handled separately later. */

if (optind == argc && !seen_file)
    process_file ("-");
else
    for (; optind < argc; optind++)
        process_file (argv[optind]);

/* Now handle wrapup text. */

while (pop_wrapup ())
    expand_input ();

/* Change debug stream back to stderr, to force flushing the debug 
stream and detect any errors it might have encountered. The 
three standard streams are closed by close_stdin. */
debug_set_output (NULL);

if (frozen_file_to_write)
    produce_frozen_state (frozen_file_to_write);
else
{
    make_diversion (0);
    undivert_all ();
}
output_exit ();
free_macro_sequence ();
exit (retcode);

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Contributors to btv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ubuntu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C
Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
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Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
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Roberto Ragusa <r.ragusa@libero.it>
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Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
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for the nxt2002 frontend driver
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for the nxt2004 frontend driver

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single nxt200x frontend driver.

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

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John R. Hauser
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= Code Contributions =

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

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====================================================================
= Change Description / Commit Message / Patch Email =
====================================================================

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===
From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change. The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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Contributions.txt: TianoCore Contribution Agreement 1.0

= Code Contributions =

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.
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Contributions of code put into the public domain can also be accepted.

Contributions using other licenses might be accepted, but further review will be required.

= Change Description / Commit Message / Patch Email =

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===
=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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Key Dates
--------
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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* April 9, 2019

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2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.
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   The "TianoCore Contribution Agreement" is included below in this document.
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= Change Description / Commit Message / Patch Email =
Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
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Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.
== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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========================================
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John R. Hauser
2018 January 20

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

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

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

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

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

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

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

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

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

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exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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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 
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Otherwise, if the work is a derivative of the Library, you may 
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a) Accompany the work with the complete corresponding 
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changes were used in the work (which must be distributed under 
Sections 1 and 2 above); and, if the work is an executable linked 
with the Library, with the complete machine-readable "work that 
uses the Library", as object code and/or source code, so that the 
user can modify the Library and then relink to produce a modified 
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that the user who changes the contents of definitions files in the 
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to use the modified definitions.)

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

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

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

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

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This does mean that libfdt code could be "stolen" - say, included in a proprietary firmware and extended without contributing those extensions back to the libfdt mainline. While I hope that doesn't happen, I believe the goal of allowing libfdt to be widely used is more important than avoiding that. libfdt is quite small, and hardly rocket science; so the incentive for such impolite behaviour is small, and the inconvenience caused therby is not dire.

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

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{ TARGET_FREEBSD_NR_exit, "exit", "%s(%#d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s("%s", %d, %d, "%s", %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s("%s", %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s("%s", %d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s("%s", %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "%s("%s", %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s("%s", %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s("%s", %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("%s", %d, "%s", %#x, %#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%#d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%#d,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
Open Source Used In XESDK 17.4-4.0.1

[TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL ],
[TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_fstat, "fstat", "%s(d,%#x)", NULL, NULL ],
[TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(d,%s", %#x, %d)", NULL, NULL ],
[TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(#x)", NULL, NULL ],
[TARGET_FREEBSD_NR_getdirent, "getdirent", "getdirent", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL ],
[TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL ],
[TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL ],
[TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL ],
[TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL ],
[TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(#x,%#x)", NULL, NULL ],
[TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL ],
[TARGET_FREEBSD_NR_ioctl, "ioctl", print_ioctl, NULL, NULL ],
[TARGET_FREEBSD_NR_issetuid, "issetuid", "%s()", NULL, NULL ],
[TARGET_FREEBSD_NR_issetgid, "issetgid", "%s()", NULL, NULL ],
[TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR쎁, "%s()", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL ],
[TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL ],
[TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL ],
[TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\",%p)", NULL, NULL ],
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
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Linus Torvalds

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
 
  
 void X86EMU_trace_regs (void)
@@ -52,7 +52,11 @@
 
  
 if (DEBUG_TRACE()) {
-    x86emu_dump_regs();
+if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
x86emu_dump_xregs();
+
+x86emu_dump_regs();
+
}
}
if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
    printk("%04x:%04x \n", M.x86.saved_cs, M.x86.saved_ip);
    for (i=0; i< M.x86.enc_pos; i++) {
        sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s.o+i));
    }
    printk("%-20s",buf1);
    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
        M.x86.R_IP = (u16)target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
  +  )
+  +  DECODE_CLEAR_SEGOVR();
+  +  END_OF_INSTR();
+  +
+  */

+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+s32 x86emu_bswap(s32 reg)
+{
+    // perform the byte swap
+    s32 temp = reg;
+    reg = (temp & 0xFF000000) >> 24;
+    reg |= (temp & 0xFF0000) >> 8;
+    reg |= (temp & 0xFF00) << 8;
+}
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+    /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\n");
+    switch (op2) {
+        case 0xc8:
+            DECODE_PRINTF("EAX\n");
+            M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+            break;
+        case 0xc9:
+            DECODE_PRINTF("ECX\n");
+            M.x86.R(ECX = x86emu_bswap(M.x86.R_ECX);
+            break;
+        case 0xca:
+            DECODE_PRINTF("EDX\n");
+            M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+            break;
+        case 0xcb:
+            DECODE_PRINTF("EBX\n");
+            M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+            break;
+        case 0xcc:
+            DECODE_PRINTF("ESP\n");
+            M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+            break;
+        case 0xcd:
+            DECODE_PRINTF("EBP\n");
+            M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+            break;
+        case 0xce:
+            DECODE_PRINTF("ESI\n");
+            M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+            break;
+        case 0xcf:
+            DECODE_PRINTF("EDI\n");
+            M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+            break;
+    }
+    TRACE_AND_STEP();
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+
+}
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
  imm = (s8)fetch_byte_imm();
  DECODE_PRINTF2("PUSHf\%d\n", imm);
  TRACE_AND_STEP();
- push_word(imm);
+ if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+   push_long(imm);
+ } else {
+   push_word(imm);
+ }
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
  target = (u16)(M.x86.R_IP + (s16)offset);
  DECODE_PRINTF2("%x\n", target);
  TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
} }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
)
@@ -2516,9 +2522,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
-    /* move them until (E)CX is ZERO. */
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
@@ -2526,6 +2534,8 @@
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
} }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
-    /* move them until (E)CX is ZERO. */
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
@@ -2574,6 +2586,8 @@
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
            - M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
            + if (M.x86.intr & INTR_HALTED)
                break;
        }  
        break;
    }  
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    @@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
            /* move them until (E)CX is ZERO. */
            + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
                if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
                + if (M.x86.intr & INTR_HALTED)
                    break;
            }  
            break;
        }  
    M.x86.R_CX -= 1;
    + if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX -= 1;
    else
        M.x86.R_ECX -= 1;
M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ((M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0) break;
if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
if (M.x86.intr & INTR_HALTED)
    break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
else {
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        while (M.x86.R_CX != 0) {
            /* move them until CX is ZERO. */
            M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        while ((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
    TRACE_AND_STEP();
    count = 1;
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
            count = M.x86.R_CX;
            while (count--) {
                store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
            }
            M.x86.R_DI += inc;
        } else {
    TRACE_AND_STEP();
    count = 1;
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
            count = M.x86.R_CX;
            while (count--) {
                store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
            }
            M.x86.R_DI += inc;
        }
    }
}
if (M.x86.intr & INTR_HALTED)
    break;

DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
+            if (M.x86.intr & INTR_HALTED)
+                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
++ /* move them until (E)CX is ZERO. */
++ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            if (M.x86.intr & INTR_HALTED)
                break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
++ /* move them until (E)CX is ZERO. */
++ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
                break;          /* zero flag set means equal */
            if (M.x86.intr & INTR_HALTED)
                break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    TRAC...
while (M.x86.R_CX != 0) {
    /* move them until (E)CX is ZERO. */
    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
        } else {
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE */
        while (M.x86.R_CX != 0) {
            /* move them until CX is ZERO. */
            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                    cmp_long(M.x86.R_EAX, val);
                } else {
                    M.x86.R_CX -= 1;
                    if (M.x86.mode & SYSMODE_32BIT_REP)
                        M.x86.R_ECX -= 1;
                    else
                        M.x86.R_CX -= 1;
                    M.x86.R_DI += inc;
                    if (ACCESS_FLAG(F_ZF))
                        break;  /* zero flag set means equal */
                    if (M.x86.intr & INTR_HALTED)
                        break;
                }
                M.x86.mode &= ~SYSMODE_PREFIX_REPE;
            } else {
                
            }
@@ -3238,9 +3300,9 @@
 imm = fetch_word_imm();
 DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
 M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
 M.x86.R_SP += imm;
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -3254,9 +3316,9 @@
 |
 START_OF_INSTR();
 DECODE_PRINTF("RETFa");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
 M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
 M.x86.R_SP += imm;
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -3471,10 +3533,10 @@
 |
 START_OF_INSTR();
 DECODE_PRINTF("RETFa");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
 M.x86.R_IP = pop_word();
 M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
 M.x86.R_SP += imm;
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -4020,8 +4082,11 @@
 ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (!ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
  M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
  M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
  M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+
+DECODE_CLEAR_SEGOVR();
+END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:", cs);
DECODE_PRINTF2("%04x\n", ip);
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
break;
    case 4: /* jmp word ptr */
        destval = fetch_data_word(destoffset);
        +   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        break;
    case 5: /* jmp far ptr */
        destval = fetch_data_word(destoffset);
        destval2 = fetch_data_word(destoffset + 2);
        +   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        M.x86.R_CS = destval2;

Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
 void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
 {
     #ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

     *res_lo = (u32)res;
     *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
 void mul_long(u32 s)
 {
     #ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

     M.x86.R_EAX = (u32)res;
     M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
 } if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
     /* dont care whether REPE or REPNE */
     /* in until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA)
+    /* in until (E)CX is ZERO. */
     }
u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);

while (count--) {
    single_in(size);
    M.x86.R_DI += inc;
}
M.x86.R_CX = 0;

if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* out until CX is ZERO. */
    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
}
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
-#endif

#define IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE())
 printk("inb %#04x \n", addr);
-+return inb(addr);
+return 0;
 }

/***************************************************************************/
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
 printk("inw %#04x \n", addr);
-+return inw(addr);
+return 0;
 }

/***************************************************************************/
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
 printk("inl %#04x \n", addr);
-+return inl(addr);
+return 0;
 }

/***************************************************************************/
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
 printk("outb %#02x -> %#04x \n", val, addr);
-+outb(val, addr);
 return;
 }

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
 printk("outw %#04x -> %#04x \n", val, addr);
-+outw(val, addr);
 return;
 }

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE()))
    printk("outl %#08x -> %#04x \n", val, addr);
-outl(val, addr);
return;
}
@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
    -M.mem_base = (int) base;
    +M.mem_base = (unsigned long) base;
    M.mem_size = size;
}
# define DEBUG_MEM_TRACE() 0
# define DEBUG_IO_TRACE() 0
@@ -169,14 +171,20 @@
 x86emu_dump_regs();
 if (DEBUG_TRACECALL())
     printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
 if (DEBUG_TRACECALLREGS())
     x86emu_dump_regs();
 if (DEBUG_TRACECALL())
     printk("%04x:%04x: %s
",u,v,n);
+    printk("%04x:%04x: RET %s %04x:%04x
",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)
+   if (DEBUG_TRACEJMPREGS())
+      x86emu_dump_regs();
+   if (DEBUG_TRACEJMP())
+      printk("%04x:%04x: JMP %s%04x:%04x
", u , v, s, w, x);
#else
 # define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+    if (DEBUG_TRACEJMPREGS())
+       x86emu_dump_regs();
+    if (DEBUG_TRACEJMP())
+       printk("%04x:%04x: RET %s %04x:%04x
",u,v,s,w,x);
#endif
#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h7 Sep 2007 10:01:21 -0000
+++ include/x86emu/regs.h15 Jan 2008 13:46:40 -0000
@@ -231,6 +231,9 @@
 #define SYSMODE_PREFIX_REPNE 0x00000100
 #define SYSMODE_PREFIX_DATA 0x00000200
 #define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
 #define SYSMODE_INTR_PENDING 0x10000000
 #define SYSMODE_EXTRN_INTR 0x20000000
 #define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
 SYSMODE_PREFIX_DATA    | \
 SYSMODE_PREFIX_ADDR    | \

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- SYSMODE_PREFIX_ADDR)
+ SYSMODE_PREFIX_ADDR | \
+ SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
*/
    u32 mode;
    volatile int intr; /* mask of pending interrupts */
-int debug;
+    volatile int debug;
#endif DEBUG
-int check;
+    int check;
    u16 saved_ip;
    u16 saved_cs;
    int enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+    #include <stdio.h>
    #define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+    #define DEBUG_TRACEJMP_F 0x020000
+    #define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+    #define DEBUG_TRACEJMP_F 0x020000
+    #define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+    #define DEBUG_TRACEJMP_F 0x020000
+    #define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#endif__cplusplus
}                 /* End of "C" linkage for C++ */
#endif
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1.255 acl 2.2.52 r0

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#include "makeint.h"
#include "os.h"
#include "filedef.h"
#include "dep.h"
#include "variable.h"
#include "job.h"
#include "commands.h"
#include "rule.h"
#include "debug.h"
#include "getopt.h"

#include <assert.h>
#ifdef _AMIGA
#include <dos/dos.h>
#include <proto/dos.h>
#endif
#ifdef WINDOWS32
#include <windows.h>
#include <io.h>
#include "pathstuff.h"
#include "sub_proc.h"
#include "w32err.h"
#endif
#ifdef __EMX__
#include <sys/types.h>
#include <sys/wait.h>
#endif
#ifdef HAVE_FCNTL_H
#include <fcntl.h>
#endif

#ifdef _AMIGA
int __stack = 20000; /* Make sure we have 20K of stack space */
#endif
#ifdef VMS
int vms_use_mcr_command = 0;
int vms_always_use_cmd_file = 0;
int vms_gnv_shell = 0;
int vms_legacy_behavior = 0;
int vms_comma_separator = 0;
int vms_unix_simulation = 0;
int vms_report_unix_paths = 0;

/* Evaluates if a VMS environment option is set, only look at first character */
static int
get_vms_env_flag (const char *name, int default_value)
{
char * value;
char x;

value = getenv (name);
if (value == NULL)
    return default_value;

x = toupper (value[0]);
switch (x)
{
    case '1':
    case 'T':
    case 'E':
        return 1;
        break;
    case '0':
    case 'F':
    case 'D':
        return 0;
    }
}
#endif

#if defined HAVE_WAITPID || defined HAVE_WAIT3
#define HAVE_WAIT_NOHANG
#endif
#ifndef HAVE_UNISTD_H
int chdir ();
#endif
#ifndef STDC_HEADERS
#ifndef sun                    /* Sun has an incorrect decl in a header. */
void exit (int) __attribute__ ((noreturn));
#endif
do double atof ();
#endif

static void clean_jobserver (int status);
static void print_data_base (void);
static void print_version (void);
static void decode_switches (int argc, const char **argv, int env);
static void decode_env_switches (const char *envar, unsigned int len);
static struct variable *define_makeflags (int all, int makefile);
static char *quote_for_env (char *out, const char *in);
static void initialize_global_hash_tables (void);

/* The structure that describes an accepted command switch. */

struct command_switch
{
    int c;                      /* The switch character. */

    enum /* Type of the value. */
    {
        flag,            /* Turn int flag on. */
        flag_off,        /* Turn int flag off. */
        string,          /* One string per invocation. */
        strlist,         /* One string per switch. */
        filename,        /* A string containing a file name. */
        positive_int,    /* A positive integer. */
        floating,        /* A floating-point number (double). */
        ignore,          /* Ignored. */
    } type;

    void *value_ptr;    /* Pointer to the value-holding variable. */

    unsigned int env:1;         /* Can come from MAKEFLAGS. */
    unsigned int toenv:1;       /* Should be put in MAKEFLAGS. */
    unsigned int no_makefile:1; /* Don't propagate when remaking makefiles. */

    const void *noarg_value;    /* Pointer to value used if no arg given. */
    const void *default_value;  /* Pointer to default value. */

    const char *long_name;      /* Long option name. */
};

/* True if C is a switch value that corresponds to a short option. */
#define short_option(c) ((c) <= CHAR_MAX)

/* The structure used to hold the list of strings given in command switches of a type that takes strlist arguments. */

struct stringlist
{
    const char **list; /* Nil-terminated list of strings. */
    unsigned int idx; /* Index into above. */
unsigned int max; /* Number of pointers allocated. */

/* The recognized command switches. */

/* Nonzero means do extra verification (that may slow things down). */

int verify_flag;

/* Nonzero means do not print commands to be executed (-s). */

int silent_flag;

/* Nonzero means just touch the files that would appear to need remaking (-t). */

int touch_flag;

/* Nonzero means just print what commands would need to be executed, don't actually execute them (-n). */

int just_print_flag;

/* Print debugging info (--debug). */

static struct stringlist *db_flags = 0;
static int debug_flag = 0;
int db_level = 0;

/* Synchronize output (--output-sync). */

char *output_sync_option = 0;

#ifdef WINDOWS32
/* Suspend make in main for a short time to allow debugger to attach */

int suspend_flag = 0;
#endif

/* Environment variables override makefile definitions. */

int env_overrides = 0;

/* Nonzero means ignore status codes returned by commands executed to remake files. Just treat them all as successful (-i). */
int ignore_errors_flag = 0;

/* Nonzero means don't remake anything, just print the data base
   that results from reading the makefile (-p). */
int print_data_base_flag = 0;

/* Nonzero means don't remake anything; just return a nonzero status
   if the specified targets are not up to date (-q). */
int question_flag = 0;

/* Nonzero means do not use any of the builtin rules (-r) / variables (-R). */
int no_builtin_rules_flag = 0;
int no_builtin_variables_flag = 0;

/* Nonzero means keep going even if remaking some file fails (-k). */
int keep_going_flag;
int default_keep_going_flag = 0;

/* Nonzero means check symlink mtimes. */
int check_symlink_flag = 0;

/* Nonzero means print directory before starting and when done (-w). */
int print_directory_flag = 0;

/* Nonzero means ignore print_directory_flag and never print the directory.
   This is necessary because print_directory_flag is set implicitly. */
int inhibit_print_directory_flag = 0;

/* Nonzero means print version information. */
int print_version_flag = 0;

/* List of makefiles given with -f switches. */
static struct stringlist *makefiles = 0;

/* Size of the stack when we started. */
#ifdef SET_STACK_SIZE
struct rlimit stack_limit;
#endif
/* Number of job slots for parallelism. */

unsigned int job_slots;

#define INVALID_JOB_SLOTS (-1)
static unsigned int master_job_slots = 0;
static int arg_job_slots = INVALID_JOB_SLOTS;
static const int default_job_slots = INVALID_JOB_SLOTS;

/* Value of job_slots that means no limit. */
static const int inf_jobs = 0;

/* Authorization for the jobserver. */
static char *jobserver_auth = NULL;

/* Handle for the mutex used on Windows to synchronize output of our
 children under -O. */
char *sync_mutex = NULL;

/* Maximum load average at which multiple jobs will be run.
 Negative values mean unlimited, while zero means limit to
 zero load (which could be useful to start infinite jobs remotely
 but one at a time locally). */
#ifndef NO_FLOAT
#define max_load_average = -1.0;
#define default_load_average = -1.0;
#else
int max_load_average = -1;
int default_load_average = -1;
#endif

/* List of directories given with -C switches. */
static struct stringlist *directories = 0;

/* List of include directories given with -I switches. */
static struct stringlist *include_directories = 0;

/* List of files given with -o switches. */
static struct stringlist *old_files = 0;
/* List of files given with -W switches. */
static struct stringlist *new_files = 0;

/* List of strings to be eval'd. */
static struct stringlist *eval_strings = 0;

/* If nonzero, we should just print usage and exit. */
static int print_usage_flag = 0;

/* If nonzero, we should print a warning message
 for each reference to an undefined variable. */

int warn_undefined_variables_flag;

/* If nonzero, always build all targets, regardless of whether
 they appear out of date or not. */
static int always_make_set = 0;
int always_make_flag = 0;

/* If nonzero, we're in the "try to rebuild makefiles" phase. */
int rebuilding_makefiles = 0;

/* Remember the original value of the SHELL variable, from the environment. */
struct variable shell_var;

/* This character introduces a command: it's the first char on the line. */
char cmd_prefix = '	';

/* The usage output. We write it this way to make life easier for the
 translators, especially those trying to translate to right-to-left
 languages like Hebrew. */

static const char *const usage[] =
{
    N_("Options:
"),
    N_("\n"),
    -b, -m                   Ignored for compatibility.\n"),
    N_("\n"),
    -B, --always-make        Unconditionally make all targets.\n"),
    N_("\n"),
};
-C DIRECTORY, --directory=DIRECTORY

  Change to DIRECTORY before doing anything.

-d

  Print lots of debugging information.

--debug[=FLAGS]

  Print various types of debugging information.

-e, --environment-overrides

  Environment variables override makefiles.

--eval=STRING

  Evaluate STRING as a makefile statement.

-f FILE, --file=FILE, --makefile=FILE

  Read FILE as a makefile.

-h, --help

  Print this message and exit.

-i, --ignore-errors

  Ignore errors from recipes.

-I DIRECTORY, --include-dir=DIRECTORY

  Search DIRECTORY for included makefiles.

-j [N], --jobs[=N]

  Allow N jobs at once; infinite jobs with no arg.

-k, --keep-going

  Keep going when some targets can't be made.

-l [N], --load-average[=N], --max-load[=N]

  Don't start multiple jobs unless load is below N.

-L, --check-symlink-times

  Use the latest mtime between symlinks and target.

-n, --just-print, --dry-run, --recon

  Don't actually run any recipe; just print them.

-o FILE, --old-file=FILE, --assume-old=FILE

  Consider FILE to be very old and don't remake it.

-O[TYPE], --output-sync[=TYPE]

  Synchronize output of parallel jobs by TYPE.

-p, --print-data-base

  Print make's internal database.

-q, --question

  Run no recipe; exit status says if up to date.

-r, --no-built-in-rules

  Disable the built-in implicit rules.

-R, --no-built-in-variables

  Disable the built-in variable settings.
-s, --silent, --quiet Don't echo recipes.
N_("\n\t"),
-S, --no-keep-going, --stop\n
	Turns off -k\n"),
-t, --touch Touch targets instead of remaking them.\n"),
--trace Print tracing information.\n"),
-v, --version Print the version number of make and exit.\n"),
w, --print-directory Print the current directory.\n"),
--no-print-directory Turn off -w, even if it was turned on implicitly.\n"),
-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE\n
Consider FILE to be infinitely new.\n"),
--warn-undefined-variables Warn when an undefined variable is referenced.\n"),
NULL
";

/* The table of command switches.
Order matters here: this is the order MAKEFLAGS will be constructed.
So be sure all simple flags (single char, no argument) come first. */

static const struct command_switch switches[] =
{
    { 'b', ignore, 0, 0, 0, 0, 0, 0 },
    { 'B', flag, &always_make_set, 1, 1, 0, 0, 0, "always-make" },
    { 'd', flag, &debug_flag, 1, 1, 0, 0, 0 },
    #ifdef WINDOWS32
    { 'D', flag, &suspend_flag, 1, 1, 0, 0, 0, "suspend-for-debug" },
    #endif
    { 'e', flag, &env_overrides, 1, 1, 0, 0, 0, "environment-overrides" },
    { 'h', flag, &print_usage_flag, 0, 0, 0, 0, 0, "help" },
    { 'i', flag, &ignore_errors_flag, 1, 1, 0, 0, 0, "ignore-errors" },
    { 'k', flag, &keep_going_flag, 1, 1, 0, 0, 0, &default_keep_going_flag, "keep-going" },
    { 'L', flag, &check_symlink_flag, 1, 1, 0, 0, 0, "check-symlink-times" },
    { 'm', ignore, 0, 0, 0, 0, 0, 0 },
    { 'n', flag, &just_print_flag, 1, 1, 0, 0, 0, "just-print" },
    { 'p', flag, &print_data_base_flag, 1, 1, 0, 0, 0, "print-data-base" },
    { 'q', flag, &question_flag, 1, 1, 0, 0, 0, "question" },
    { 'r', flag, &no_builtin_rules_flag, 1, 1, 0, 0, 0, "no-builtin-rules" },
    { 'R', flag, &no_builtin_variables_flag, 1, 1, 0, 0, 0, "no-builtin-variables" },
    { 's', flag, &silent_flag, 1, 1, 0, 0, 0, "silent" },
}
{ 'S', flag_off, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag, "no-keep-going" },
{ 't', flag, &touch_flag, 1, 1, 0, 0, "touch" },
{ 'v', flag, &print_version_flag, 1, 1, 0, 0, "version" },
{ 'w', flag, &print_directory_flag, 1, 1, 0, 0, "print-directory" },

/* These options take arguments. */
{ 'C', filename, &directories, 0, 0, 0, 0, 0, "directory" },
{ 'T', filename, &makefiles, 0, 0, 0, 0, 0, "file" },
{ 'T', filename, &include_directories, 1, 1, 0, 0, 0, "include-dir" },
{ 'j', positive_int, &arg_job_slots, 1, 1, 0, &inf_jobs, &default_job_slots, "jobs" },
#ifndef NO_FLOAT
{ 'l', floating, &max_load_average, 1, 1, 0, &default_load_average, "load-average" },
#else
{ 'l', positive_int, &max_load_average, 1, 1, 0, &default_load_average, "load-average" },
#endif
{ 'o', filename, &old_files, 0, 0, 0, 0, 0, "old-file" },
{ 'O', string, &output_sync_option, 1, 1, 0, 0, 0, "output-sync" },
{ 'W', filename, &new_files, 0, 0, 0, 0, 0, "what-if" },

/* These are long-style options. */
{ CHAR_MAX+1, strlist, &db_flags, 1, 1, 0, "basic", 0, "debug" },
{ CHAR_MAX+2, string, &jobserver_auth, 1, 1, 0, 0, 0, "jobserver-auth" },
{ CHAR_MAX+3, flag, &trace_flag, 1, 1, 0, 0, 0, "trace" },
{ CHAR_MAX+4, flag, &inhibit_print_directory_flag, 1, 1, 0, 0, 0, "no-print-directory" },
{ CHAR_MAX+5, flag, &warn_undefined_variables_flag, 1, 1, 0, 0, 0, "warn-undefined-variables" },
{ CHAR_MAX+6, strlist, &eval_strings, 1, 0, 0, 0, 0, "eval" },
{ CHAR_MAX+7, string, &sync_mutex, 1, 1, 0, 0, 0, "sync-mutex" },
{ 0, 0, 0, 0, 0, 0, 0, 0 }
};

/* Secondary long names for options. */

static struct option long_option_aliases[] =
{
    { "quiet", no_argument, 0, 's' },
    { "stop", no_argument, 0, 'S' },
    { "new-file", required_argument, 0, 'W' },
    { "assume-new", required_argument, 0, 'W' },
    { "assume-old", required_argument, 0, 'o' },
    { "max-load", optional_argument, 0, 'l' },
    { "dry-run", no_argument, 0, 'n' },
};
static struct goaldep *goals, *lastgoal;

/* List of variables which were defined on the command line
(or, equivalently, in MAKEFLAGS). */

struct command_variable
{
    struct command_variable *next;
    struct variable *variable;
};
static struct command_variable *command_variables;

/* The name we were invoked with. */

#ifdef WINDOWS32
/* On MS-Windows, we chop off the .exe suffix in 'main', so this
   cannot be 'const'. */
char *program;
#else
const char *program;
#endif

/* Our current directory before processing any -C options. */
char *directory_before_chdir;

/* Our current directory after processing all -C options. */
char *starting_directory;

/* Value of the MAKELEVEL variable at startup (or 0). */
unsigned int makelevel;

/* Pointer to the value of the .DEFAULT_GOAL special variable.
The value will be the name of the goal to remake if the command line
does not override it. It can be set by the makefile, or else it's
the first target defined in the makefile whose name does not start
with \\'\'. */

struct variable * default_goal_var;
struct file *default_file;

int posix_pedantic;

int second_expansion;

int one_shell;

int output_sync = OUTPUT_SYNC_NONE;

int trace_flag = 0;

int not_parallel;

int clock_skew_detected;

#ifndef UCHAR_MAX
#define UCHAR_MAX 255
#endif

unsigned short stopchar_map[UCHAR_MAX + 1] = {0};
/* If output-sync is enabled we'll collect all the output generated due to options, while reading makefiles, etc. */

struct output make_sync;

/* Mask of signals that are being caught with fatal_error_signal. */

#ifdef POSIX
  sigset_t fatal_signal_set;
#else
  #ifdef HAVE_SIGSETMASK
    int fatal_signal_mask;
  #else
    #endif
#endif

#if !HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
  #if !defined HAVE_SIGACTION
    #define bsd_signal signal
  #else
    typedef RETSIGTYPE (*bsd_signal_ret_t) (int);
  #endif
#endif

static bsd_signal_ret_t
bsd_signal (int sig, bsd_signal_ret_t func)
{
  struct sigaction act, oact;
  act.sa_handler = func;
  act.sa_flags = SA_RESTART;
  sigemptyset (&act.sa_mask);
  sigaddset (&act.sa_mask, sig);
  if (sigaction (sig, &act, &oact) != 0)
    return SIG_ERR;
  return oact.sa_handler;
}
#endif

static void
initialize_global_hash_tables (void)
{
  init_hash_global_variable_set ();
  strcache_init ();
  init_hash_files ();
  hash_init_directories ();
  hash_init_function_table ();
}
/ * This character map locate stop chars when parsing GNU makefiles.
  Each element is true if we should stop parsing on that character. */

static void
initialize_stopchar_map (void)
{
    int i;

    stopchar_map[(int)'0'] = MAP_NUL;
    stopchar_map[(int)'#'] = MAP_COMMENT;
    stopchar_map[(int)';'] = MAP_SEMI;
    stopchar_map[(int)'='] = MAP_EQUALS;
    stopchar_map[(int)':'] = MAP_COLON;
    stopchar_map[(int)'%'] = MAP_PERCENT;
    stopchar_map[(int)'|'] = MAP_PIPE;
    stopchar_map[(int).'] = MAP_DOT | MAP_USERFUNC;
    stopchar_map[(int)'\'] = MAP_COMMA;
    stopchar_map[(int)'$'] = MAP_VARIABLE;
    stopchar_map[(int)'\-'] = MAP_USERFUNC;
    stopchar_map[(int)'_'] = MAP_USERFUNC;
    stopchar_map[(int)' '] = MAP_BLANK;
    stopchar_map[(int)'\t'] = MAP_BLANK;
    stopchar_map[(int)'/'] = MAP_DIRSEP;
    #if defined(VMS)
    stopchar_map[(int)'\-'] |= MAP_DIRSEP;
    stopchar_map[(int)'\]'] |= MAP_DIRSEP;
    stopchar_map[(int)'>'] |= MAP_DIRSEP;
    #elif defined(HAVE_DOS_PATHS)
    stopchar_map[(int)'\'] |= MAP_DIRSEP;
    #endif
    for (i = 1; i <= UCHAR_MAX; ++i)
    {
        if (isspace (i) &amp;&amp; NONE_SET (stopchar_map[i], MAP_BLANK))
        /* Don't mark blank characters as newline characters. */
            stopchar_map[i] = MAP_NEWLINE;
        else if (isalnum (i))
            stopchar_map[i] = MAP_USERFUNC;
    }
}

static const char *
expand_command_line_file (const char *name)
{
    const char *cp;

char *expanded = 0;

if (name[0] == '0')
    O (fatal, NILF, "empty string invalid as file name");

if (name[0] == '~')
    expanded = tilde_expand (name);
    if (expanded && expanded[0] != '0')
        name = expanded;

/* This is also done in parse_file_seq, so this is redundant
   for names read from makefiles. It is here for names passed
   on the command line. */
while (name[0] == '.' && name[1] == '/')
    name += 2;
while (name[0] == '/')
    /* Skip following slashes: ".//foo" is "foo", not "/foo". */
    name++; 

if (name[0] == '0')
    name = "./

/* Nothing else but one or more ".", maybe plus slashes! */

/* Toggle -d on receipt of SIGUSR1. */

#ifdef SIGUSR1
static RETSIGTYPE
debug_signal_handler (int sig UNUSED)
{
    db_level = db_level ? DB_NONE : DB_BASIC;
}
#endif

cp = strcache_add (name);

free (expanded);

return cp;

/* Toggle -d on receipt of SIGUSR1. */

#ifndef SIGUSR1
    static void
    decode_debug_flags (void)
    {
    }
const char **pp;

if (debug_flag)
  db_level = DB_ALL;

if (db_flags)
  for (pp=db_flags->list; *pp; ++pp)
    {
      const char *p = *pp;

      while (1)
        {
          switch (tolower (p[0]))
            {
            case 'a':
              db_level |= DB_ALL;
              break;
            case 'b':
              db_level |= DB_BASIC;
              break;
            case 'i':
              db_level |= DB_BASIC | DB_IMPLICIT;
              break;
            case 'j':
              db_level |= DB_JOBS;
              break;
            case 'm':
              db_level |= DB_BASIC | DB_MAKEFILES;
              break;
            case 'n':
              db_level = 0;
              break;
            case 'v':
              db_level |= DB_BASIC | DB_VERBOSE;
              break;
            default:
              OS (fatal, NILF,
                "unknown debug level specification '%s'", p);
            }
          while (*p++ != '\0')
            {
              if (*p == '.' || *p == ' ') break;
            }
          if (*++p != '\0')
            {
              if (*p == '.' || *p == ' ') break;
            }
        }
if (*p == '\0')
  break;
}
}

if (db_level)
  verify_flag = 1;

if (! db_level)
  debug_flag = 0;
}

static void
decode_output_sync_flags (void)
{
  #ifdef NO_OUTPUT_SYNC
  output_sync = OUTPUT_SYNC_NONE;
  #else
  if (output_sync_option)
    {
      if (streq (output_sync_option, "none"))
        output_sync = OUTPUT_SYNC_NONE;
      else if (streq (output_sync_option, "line"))
        output_sync = OUTPUT_SYNC_LINE;
      else if (streq (output_sync_option, "target"))
        output_sync = OUTPUT_SYNC_TARGET;
      else if (streq (output_sync_option, "recurse"))
        output_sync = OUTPUT_SYNC_RECURSE;
      else
        OS (fatal, NILF,
          _("unknown output-sync type \"%s\""), output_sync_option);
    }
  if (sync_mutex)
    RECORD_SYNC_MUTEX (sync_mutex);
  #endif
}

#ifdef WINDOWS32

#ifdef NO_OUTPUT_SYNC
  /* This is called from start_job_command when it detects that
     output_sync option is in effect. The handle to the synchronization
     mutex is passed, as a string, to sub-makes via the --sync-mutex
     command-line argument. */
  void
  prepare_mutex_handle_string (sync_handle_t handle)
if (!sync_mutex)
{
  /* Prepare the mutex handle string for our children. */
  /* 2 hex digits per byte + 2 characters for "0x" + null. */
  sync_mutex = xmalloc ((2 * sizeof (sync_handle_t)) + 2 + 1);
  sprintf (sync_mutex, "0x%Ix", handle);
  define_makeflags (1, 0);
}
#endif /* NO_OUTPUT_SYNC */

/*
HANDLE runtime exceptions by avoiding a requestor on the GUI. Capture
exception and print it to stderr instead.

* If ! DB_VERBOSE, just print a simple message and exit.
* If DB_VERBOSE, print a more verbose message.
* If compiled for DEBUG, let exception pass through to GUI so that
  debuggers can attach.
*/
LONG WINAPI
handle_runtime_exceptions (struct _EXCEPTION_POINTERS *exinfo)
{
PEXCEPTION_RECORD exrec = exinfo->ExceptionRecord;
LPSTR cmdline = GetCommandLine ();
LPSTR prg = strtok (cmdline, " ");
CHAR errmsg[1024];
#ifdef USE_EVENT_LOG
HANDLE hEventSource;
LPTSTR lpszStrings[1];
#endif
if (! ISDB (DB_VERBOSE))
{
  sprintf (errmsg,
    "(%s: Interrupt/Exception caught (code = 0x%lx, addr = 0x%p)n"),
    prg, exrec->ExceptionCode, exrec->ExceptionAddress);
  fprintf (stderr, errmsg);
  exit (255);
}

sprintf (errmsg,
    "Unhandled exception filter called from program %s
ExceptionCode = %lx
ExceptionFlags = %lx
ExceptionAddress = 0x%p
"),
    prg, exrec->ExceptionCode, exrec->ExceptionFlags,
    exrec->ExceptionAddress);
if (exrec->ExceptionCode == EXCEPTION_ACCESS_VIOLATION
    && exrec->NumberParameters >= 2)
    sprintf (&errmsg[strlen(errmsg)],
        (exrec->ExceptionInformation[0]
            ? _("Access violation: write operation at address 0x%p\n")
              : _("Access violation: read operation at address 0x%p\n")),
            (PVOID)exrec->ExceptionInformation[1]);

    /* turn this on if we want to put stuff in the event log too */
    #ifdef USE_EVENT_LOG
    hEventSource = RegisterEventSource (NULL, "GNU Make");
    lpszStrings[0] = errmsg;

    if (hEventSource != NULL)
    {
        ReportEvent (hEventSource, /* handle of event source */
            EVENTLOG_ERROR_TYPE, /* event type */
            0, /* event category */
            0, /* event ID */
            NULL, /* current user's SID */
            1, /* strings in lpszStrings */
            0, /* no bytes of raw data */
            lpszStrings, /* array of error strings */
            NULL); /* no raw data */

        (VOID) DeregisterEventSource (hEventSource);
    }
    #endif

    /* Write the error to stderr too */
    fprintf (stderr, errmsg);

    #ifdef DEBUG
    return EXCEPTION_CONTINUE_SEARCH;
    #else
    exit (255);
    return (255); /* not reached */
    #endif
}

/*
* On WIN32 systems we don't have the luxury of a /bin directory that
* is mapped globally to every drive mounted to the system. Since make could
* be invoked from any drive, and we don't want to propagate /bin/sh
* to every single drive. Allow ourselves a chance to search for
* a value for default shell here (if the default path does not exist).
*/
int find_and_set_default_shell (const char *token)
{
    int sh_found = 0;
    char *atoken = 0;
    const char *search_token;
    const char *tokend;
    PATH_VAR(sh_path);
    extern const char *default_shell;

    if (!token)
        search_token = default_shell;
    else
        search_token = atoken = xstrdup (token);

    /* If the user explicitly requests the DOS cmd shell, obey that request. 
     * However, make sure that's what they really want by requiring the value 
     * of SHELL either equal, or have a final path element of, "cmd" or 
     * "cmd.exe" case-insensitive. */
    tokend = search_token + strlen (search_token) - 3;
    if (((tokend == search_token
        || (tokend[-1] == '/' || tokend[-1] == '\'))
        && !strcasecmp (tokend, "cmd")
        || ((tokend - 4 == search_token
            || (tokend - 4 > search_token
                && (tokend[-5] == '/' || tokend[-5] == '\'))
            && !strcasecmp (tokend - 4, "cmd.exe")))
    { 
        batch_mode_shell = 1;
        unixy_shell = 0;
        sprintf (sh_path, "%s", search_token);
        default_shell = xstrdup (w32ify (sh_path, 0));
        DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
            default_shell));
        sh_found = 1;
    }
    else if (!no_default_sh_exe
        && (token == NULL || !strcmp (search_token, default_shell)))
    { /* no new information, path already set or known */
        sh_found = 1;
    }
    else if (_access (search_token, 0) == 0)
    { /* search token path was found */
        sprintf (sh_path, "%s", search_token);
    }
default_shell = xstrdup (w32ify (sh_path, 0));
DB (DB_VERBOSE, ("find_and_set_shell() setting default_shell = %s\n"),
    default_shell);
sh_found = 1;
}
else
{
    char *p;
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE ("PATH"));

    /* Search Path for shell */
    if (v && v->value)
    {
        char *ep;

        p = v->value;
        ep = strchr (p, PATH_SEPARATOR_CHAR);

        while (ep && *ep)
        {
            *ep = '\0';

            sprintf (sh_path, "%s/%s", p, search_token);
            if (_access (sh_path, 0) == 0)
            {
                default_shell = xstrdup (w32ify (sh_path, 0));
                sh_found = 1;
                *ep = PATH_SEPARATOR_CHAR;
            }
            else
            {
                *ep = PATH_SEPARATOR_CHAR;
                p = ++ep;
            }
        }

        ep = strchr (p, PATH_SEPARATOR_CHAR);
    }

    /* be sure to check last element of Path */
    if (p && *p)
    {
        sprintf (sh_path, "%s/%s", p, search_token);
        if (_access (sh_path, 0) == 0)
        {
            default_shell = xstrdup (w32ify (sh_path, 0));
        }
    }
sh_found = 1;

if (sh_found)
    DB (DB_VERBOSE,
        (_("find_and_set_shell() path search set default_shell = %s\n"),
            default_shell));

/* naive test */
if (!unixy_shell && sh_found
    && (strstr (default_shell, "sh") || strstr (default_shell, "SH")))
    { unixy_shell = 1;
        batch_mode_shell = 0;
    }

#ifdef BATCH_MODE_ONLY_SHELL
    batch_mode_shell = 1;
#endif

free (atoken);

return (sh_found);
#endif /* WINDOWS32 */

#ifdef __MSDOS__
static void
msdos_return_to_initial_directory (void)
{
    if (directory_before_chdir)
        chdir (directory_before_chdir);
}
#endif /* __MSDOS__ */

static void
reset_jobserver (void)
{
    jobserver_clear ();
    free (jobserver_auth);
    jobserver_auth = NULL;
}

#ifdef _AMIGA
int
main (int argc, char **argv)
#else
int
main (int argc, char **argv, char **envp)
#endif
{
  static char *stdin_nm = 0;
  int makefile_status = MAKE_SUCCESS;
  struct goaldep *read_files;
  PATH_VAR (current_directory);
  unsigned int restarts = 0;
  unsigned int syncing = 0;
  int argv_slots;
  #ifdef WINDOWS32
  const char *unix_path = NULL;
  const char *windows32_path = NULL;
  
  SetUnhandledExceptionFilter (handle_runtime_exceptions);
  /* start off assuming we have no shell */
  unixy_shell = 0;
  no_default_sh_exe = 1;
  #endif

  output_init (&make_sync);

  initialize_stopchar_map();

  #ifdef SET_STACK_SIZE
  /* Get rid of any avoidable limit on stack size. */
  {
    struct rlimit rlim;

    /* Set the stack limit huge so that alloca does not fail. */
    if (getrlimit (RLIMIT_STACK, &rlim) == 0
        && rlim.rlim_cur > 0 && rlim.rlim_cur < rlim.rlim_max)
      {
        stack_limit = rlim;
        rlim.rlim_cur = rlim.rlim_max;
        setrlimit (RLIMIT_STACK, &rlim);
      }
    else
      stack_limit.rlim_cur = 0;
  }
  #endif

  /* Needed for OS/2 */
  initialize_main (&argc, &argv);
#ifdef MAKE_MAINTAINER_MODE
/* In maintainer mode we always enable verification. */
verify_flag = 1;
#endif

#ifdef (__MSDOS__) && !defined (_POSIX_SOURCE)
/* Request the most powerful version of 'system', to
make up for the dumb default shell. */
__system_flags = (__system_redirect
| __system_use_shell
| __system_allow_multiple_cmds
| __system_allow_long_cmds
| __system_handle_null_commands
| __system_emulate_chdir);
#endif

/* Set up gettext/internationalization support. */
setlocale (LC_ALL, "");
/* The cast to void shuts up compiler warnings on systems that
disable NLS. */
(void)bindtextdomain (PACKAGE, LOCALEDIR);
(void)textdomain (PACKAGE);

#ifndef POSIX
sigemptyset (&fatal_signal_set);
#else
#define ADD_SIG(sig)    sigaddset (&fatal_signal_set, sig)
#endif
#endif

#define FATAL_SIG(sig)          
if (bsd_signal (sig, fatal_error_signal) == SIG_IGN)          
    bsd_signal (sig, SIG_IGN);         
else          
    ADD_SIG (sig);
#endif

#ifndef SIGHUP
FATAL_SIG (SIGHUP);
#endif
#ifndef SIGQUIT
FATAL_SIG (SIGQUIT);
#endif
/* Windows 9X delivers FP exceptions in child programs to their
parent! We don't want Make to die when a child divides by zero,
so we work around that lossage by catching SIGFPE. */
FATAL_SIG (SIGFPE);
#endif

#define __MSDOS__
/* Windows 9X delivers FP exceptions in child programs to their
parent! We don't want Make to die when a child divides by zero,
so we work around that lossage by catching SIGFPE. */
FATAL_SIG (SIGFPE);
#endif

#define SIGDANGER
FATAL_SIG (SIGDANGER);
#undef  FATAL_SIG
/* Do not ignore the child-death signal. This must be done before
any children could possibly be created; otherwise, the wait
functions won't work on systems with the SVR4 ECHILD brain
damage, if our invoker is ignoring this signal. */
#endif

#define HAVE_WAIT_NOHANG
#if defined SIGCHLD
(void) bsd_signal (SIGCHLD, SIG_DFL);
#endif
#if defined SIGCLD && SIGCLD != SIGCHLD
(void) bsd_signal (SIGCLD, SIG_DFL);
#endif

output_init (NULL);

/* Figure out where this program lives. */
if (argv[0] == 0)
    argv[0] = (char *)"";
if (argv[0][0] == '0')
    program = "make";
else
    {,
    program = strrchr (argv[0], '/');
#if defined(__MSDOS__) || defined(__EMX__)
if (program == 0)
    program = strrchr (argv[0], '\');
else
{
    /* Some weird environments might pass us argv[0] with
    both kinds of slashes; we must find the rightmost. */
    char *p = strrchr (argv[0], '\');
    if (p && p > program)
        program = p;
}
if (program == 0 && argv[0][1] == ':')
    program = argv[0] + 1;
#endif
#ifdefined WINDOWS32
if (program == 0)
{
    /* Extract program from full path */
    program = strrchr (argv[0], '\');
    if (program)
    {
        int argv0_len = strlen (program);
        if (argv0_len > 4 && streq (&program[argv0_len - 4], ".exe"))
            /* Remove .exe extension */
            program[argv0_len - 4] = '\0';
    }
}
#endif
#if defined VMS
set_program_name (argv[0]);
program = program_name;
{
    const char *shell;
    char pwdbuf[256];
    char *pwd;
    shell = getenv ("SHELL");
    if (shell != NULL)
        vms_gnv_shell = 1;
    /* Need to know if CRTL set to report UNIX paths. Use getcwd as
    it works on all versions of VMS. */
    pwd = getcwd(pwdbuf, 256);
    if (pwd[0] == '/')
        vms_report_unix_paths = 1;
    vms_use_mcr_command = get_vms_env_flag ("GNV$MAKE_USE_MCR", 0);
    vms_always_use_cmd_file = get_vms_env_flag ("GNV$MAKE_USE_CMD_FILE", 0);
*/
/* Legacy behavior is on VMS is older behavior that needed to be changed to be compatible with standard make behavior. For now only completely disable when running under a Bash shell. TODO: Update VMS built in recipes and macros to not need this behavior, at which time the default may change. */

vms_legacy_behavior = get_vms_env_flag("GNV$MAKE_OLD_VMS", !vms_gnv_shell);

/* VMS was changed to use a comma separator in the past, but that is incompatible with built in functions that expect space separated lists. Allow this to be selectively turned off. */

vms_comma_separator = get_vms_env_flag("GNV$MAKE_COMMA", vms_legacy_behavior);

/* Some Posix shell syntax options are incompatible with VMS syntax. VMS requires double quotes for strings and escapes quotes differently. When this option is active, VMS will try to simulate Posix shell simulations instead of using VMS DCL behavior. */

vms_unix_simulation = get_vms_env_flag("GNV$MAKE_SHELL_SIM", !vms_legacy_behavior);

if (need_vms_symbol() && !vms_use_mcr_command)
    create_foreign_command(program_name, argv[0]);
else
    if (program == 0)
        program = argv[0];
    else
        ++program;
#endif

/* Set up to access user data (files). */

user_access();

initialize_global_hash_tables();

/* Figure out where we are. */

#ifdef WINDOWS32
    if (getcwd_fs(current_directory, GET_PATH_MAX) == 0)
#else
    if (getcwd(current_directory, GET_PATH_MAX) == 0)
#endif
{
#ifdef HAVE_GETCWD

#else

#endif

Open Source Used In XESDK 17.4-4.0.1 1 3506
perror_with_name ("getcwd", ".")
#else
    OS (error, NILF, "getwd: %s", current_directory);
#endif
    current_directory[0] = '0';
    directory_before_chdir = 0;
}
else
    directory_before_chdir = xstrdup (current_directory);
#endif  __MSDOS__
/* Make sure we will return to the initial directory, come what may. */
atexit (msdos_return_to_initial_directory);
/* Initialize the special variables. */
define_variable_cname (".VARIABLES", ".", o_default, 0)->special = 1;
/* define_variable_cname (".TARGETS", ",", o_default, 0)->special = 1; */
define_variable_cname (".RECIPEPREFIX", ",", o_default, 0)->special = 1;
define_variable_cname (".SHELLFLAGS", "-c", o_default, 0);
define_variable_cname (".LOADED", ",", o_default, 0);
/* Set up .FEATURES
Use a separate variable because define_variable_cname() is a macro and
some compilers (MSVC) don't like conditionals in macros. */
{
    const char *features = "target-specific order-only second-expansion"
    " else-if shortest-stem undefine oneshell"
#ifdef NO_ARCHIVES
    " archives"
#endif
#ifdef MAKE_JOBSERVER
    " jobserver"
#endif
#ifdef NO_OUTPUT_SYNC
    " output-sync"
#endif
#ifdef MAKE_SYMLINKS
    " check-symlink"
#endif
#ifdef HAVE_GUILLE
    " guile"
#endif
#ifdef MAKE_LOAD
    " load"
#endif
;
define_variable_cname ("FEATURES", features, o_default, 0);
}

/* Configure GNU Guile support */
guile_gmake_setup (NILF);

/* Read in variables from the environment. It is important that this be
done before $(MAKE) is figured out so its definitions will not be
from the environment. */
#endif
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
#else
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
#endif
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
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 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
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 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
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 ofstream = open (ev, "w", rs);
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 ofstream = open (ev, "w", rs);
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 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "]
 ofstream = open (ev, "w", rs);
 ofstream.write("= [" + ev_c_str + "])
if (*ep == '-')
{
    OUTPUT_TRACED ();
    ++ep;
}
restarts = (unsigned int) atoi (ep);
export = v_noexport;
}

v = define_variable (enpv[i], len, ep, o_env, 1);

/* POSIX says the value of SHELL set in the makefile won't change the
value of SHELL given to subprocesses. */
if (streq (v->name, "SHELL"))
{
    #ifndef __MSDOS__
        export = v_noexport;
    #endif
    shell_var.name = xstrdup ("SHELL");
    shell_var.length = 5;
    shell_var.value = xstrdup (ep);
}

v->export = export;
}
}
#endif
#ifdef WINDOWS32
/* If we didn't find a correctly spelled PATH we define PATH as
* either the first misspelled value or an empty string
*/
if (!unix_path)
    define_variable_cname ("PATH", windows32_path ? windows32_path : ",", o_env, 1)->export = v_export;
#endif
#else /* For Amiga, read the ENV: device, ignoring all dirs */
{
    BPTR env, file, old;
    char buffer[1024];
    int len;
    __aligned struct FileInfoBlock fib;

    env = Lock ("ENV:", ACCESS_READ);
    if (env)
    {
        old = CurrentDir (DupLock (env));
        Examine (env, &fib);

        while (ExNext (env, &fib))
if (fib.fib_DirEntryType < 0) /* File */
{
    /* Define an empty variable. It will be filled in
    variable_lookup(). Makes startup quite a bit faster. */
    define_variable (fib.fib_FileName,
        strlen (fib.fib_FileName),
        '"', o_env, 1)->export = v_export;
}
}
UnLock (env);
UnLock (CurrentDir (old));
}
#endif

/* Decode the switches. */
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", ",", o_env, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));

#if 0
/* People write things like:
   MFLAGS="CC=gcc -pipe" "CFLAGS=-g"
       and we set the -p, -i and -e switches. Doesn't seem quite right. */
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* In output sync mode we need to sync any output generated by reading
the makefiles, such as in $(info ...) or stderr from $(shell ...) etc. */
syncing = make_sync.syncout = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);
OUTPUT_SET (&make_sync);

/* Remember the job slots set through the environment vs. command line. */
{
    int env_slots = arg_job_slots;
    arg_job_slots = INVALID_JOB_SLOTS;

decode_switches (argc, (const char **)argv, 0);
    argv_slots = arg_job_slots;

    if (arg_job_slots == INVALID_JOB_SLOTS)
        arg_job_slots = env_slots;
/* Set a variable specifying whether stdout/stdin is hooked to a TTY. */
#endif HAVE_ISATTY

if (isatty (fileno (stdout)))
    if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMOUT")))
        {
            const char *tty = TTYNAME (fileno (stdout));
            define_variable_cname("MAKE_TERMOUT", tty ? tty : DEFAULT_TTYNAME,
                                o_default, 0)->export = v_export;
        }
    if (isatty (fileno (stderr)))
        if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMERR")))
            {
                const char *tty = TTYNAME (fileno (stderr));
                define_variable_cname("MAKE_TERMERR", tty ? tty : DEFAULT_TTYNAME,
                                        o_default, 0)->export = v_export;
            }
#endif

/* Reset in case the switches changed our minds. */
syncing = (output_sync == OUTPUT_SYNC_LINE
             || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
    output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* Figure out the level of recursion. */
{
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE (MAKELEVEL_NAME));
    if (v && v->value[0] != '\0' && v->value[0] != '-')
        makelevel = (unsigned int) atoi (v->value);
    else
        makelevel = 0;
}
#endif WINDOWS32

if (suspend_flag)
    {
        fprintf (stderr, "%s (pid = %ld)
", argv[0], GetCurrentProcessId ());
        fprintf (stderr, _("%s is suspending for 30 seconds..."), argv[0]);
        Sleep (30 * 1000);
        fprintf (stderr, _("done sleep(30). Continuing.
"));
    }
#endif
/* Set always_make_flag if -B was given and we've not restarted already. */
always_make_flag = always_make_set && (restarts == 0);

/* Print version information, and exit. */
if (print_version_flag)
{
    print_version ();
    die (MAKE_SUCCESS);
}

if (ISDB (DB_BASIC))
    print_version ();

#ifndef VMS
/* Set the "MAKE_COMMAND" variable to the name we were invoked with.
   (If it is a relative pathname with a slash, prepend our directory name
   so the result will run the same program regardless of the current dir.
   If it is a name with no slash, we can only hope that PATH did not
   find it in the current directory.) */
#endif

#ifdef WINDOWS32
/*
 * Convert from backslashes to forward slashes for
 * programs like sh which don't like them. Shouldn't
 * matter if the path is one way or the other for
 * CreateProcess().
 */
if (strpbrk (argv[0], "/\") || strstr (argv[0], ".")
    || strneq (argv[0], "//", 2))
    argv[0] = xstrdup (w32ify (argv[0], 1));
#else /* WINDOWS32 */
#ifndef __MSDOS__ || defined (__EMX__)
if (strchr (argv[0], '\'))
{
    char *p;
    argv[0] = xstrdup (argv[0]);
    for (p = argv[0]; *p; p++)
        if (*p == '\')
            *p = '/';
}
#endif /* __MSDOS__ || defined (__EMX__) */
#endif /* WINDOWS32 */

if (strchr (argv[0], '\'))
{
    char *p;
    argv[0] = xstrdup (argv[0]);
    for (p = argv[0]; *p; p++)
        if (*p == '\')
            *p = '/';
}

/* If argv[0] is not in absolute form, prepend the current
   directory. This can happen when Make is invoked by another DJGPP
   program that uses a non-absolute name. */
if (current_directory[0] != '\0'
    && argv[0] != 0
    && (argv[0][0] == ' ' && (argv[0][0] == ' ' || argv[0][1] == ':')))
    # ifdef __EMX__
/* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
&& (strchr (argv[0], '/') != 0 || strchr (argv[0], '\') != 0)
#endif
)
argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#else /* !_MSDOS__ */
if (current_directory[0] != '\0'
      && argv[0] != 0 && argv[0][0] != '/' && strchr (argv[0], '/') != 0
    #ifdef HAVE_DOS_PATHS
      && (argv[0][0] != '\' && (!argv[0][0] || argv[0][1] != ':'))
      && strchr (argv[0], '\') != 0
    #endif
)
argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#endif /* !_MSDOS__ */
#endif /* WINDOWS32 */
#endif

/* We may move, but until we do, here we are. */
starting_directory = current_directory;

/* Set up the job_slots value and the jobserver. This can't be usefully set
in the makefile, and we want to verify the authorization is valid before
make has a chance to start using it for something else. */

if (jobserver_auth)
{
    if (argv_slots == INVALID_JOB_SLOTS)
    {
        if (jobserver_parse_auth (jobserver_auth))
        {
            /* Success! Use the jobserver. */
            job_slots = 0;
            goto job_setup_complete;
        }
    }
    else if (!restarts)
    {
        /* If restarts is >0 we already printed this message. */
        O (error, NILF, _("warning: jobserver unavailable: using -j1. Add '+' to parent make rule."));
        arg_job_slots = 1;
    }
    /* The user provided a -j setting on the command line: use it. */
    else if (!restarts)
    {
        /* If restarts is >0 we already printed this message. */
        O (error, NILF, _("warning: -jN forced in submake: disabling jobserver mode."));
    }
    /* We failed to use our parent's jobserver. */
    reset_jobserver ();
}

/* We may move, but until we do, here we are. */
starting_directory = current_directory;

/* Set up the job_slots value and the jobserver. This can't be usefully set
in the makefile, and we want to verify the authorization is valid before
make has a chance to start using it for something else. */

if (jobserver_auth)
{
    if (argv_slots == INVALID_JOB_SLOTS)
    {
        if (jobserver_parse_auth (jobserver_auth))
        {
            /* Success! Use the jobserver. */
            job_slots = 0;
            goto job_setup_complete;
        }
    }
    else if (!restarts)
    {
        /* If restarts is >0 we already printed this message. */
        O (error, NILF, _("warning: jobserver unavailable: using -j1. Add '+' to parent make rule."));
        arg_job_slots = 1;
    }
    /* The user provided a -j setting on the command line: use it. */
    else if (!restarts)
    {
        /* If restarts is >0 we already printed this message. */
        O (error, NILF, _("warning: -jN forced in submake: disabling jobserver mode."));
    }
    /* We failed to use our parent's jobserver. */
    reset_jobserver ();
}
job_slots = (unsigned int)arg_job_slots;
}
else if (arg_job_slots == INVALID_JOB_SLOTS)
/* The default is one job at a time. */
job_slots = 1;
else
/* Use whatever was provided. */
job_slots = (unsigned int)arg_job_slots;

job_setup_complete:
/* The extra indirection through $(MAKE_COMMAND) is done
for hysterical raisins. */

#ifdef VMS
if (vms_use_mcr_command)
define_variable_cname ("MAKE_COMMAND", vms_command (argv[0]), o_default, 0);
else
define_variable_cname ("MAKE_COMMAND", program, o_default, 0);
#else
define_variable_cname ("MAKE_COMMAND", argv[0], o_default, 0);
#endif
define_variable_cname ("MAKE", "$\{MAKE\_COMMAND\}$", o_default, 1);

if (command_variables != 0)
{
    struct command_variable *cv;
    struct variable *v;
    unsigned int len = 0;
    char *value, *p;

    /* Figure out how much space will be taken up by the command-line
    variable definitions. */
    for (cv = command_variables; cv != 0; cv = cv->next)
    {
        v = cv->variable;
        len += 2 * strlen (v->name);
        if (! v->recursive)
            ++len;
        ++len;
        len += 2 * strlen (v->value);
        ++len;
    }

    /* Now allocate a buffer big enough and fill it. */
    p = value = alloca (len);
    for (cv = command_variables; cv != 0; cv = cv->next)
    {

v = cv->variable;
p = quote_for_env (p, v->name);
if (! v->recursive)
  *p++ = ':';
  *p++ = '=';
p = quote_for_env (p, v->value);
  *p++ = ' ';
} p[-1] = '0';  /* Kill the final space and terminate. */

/* Define an unchangeable variable with a name that no POSIX.2
   makefile could validly use for its own variable. */
define_variable_cname ("-*-command-variables-*.", value, o_automatic, 0);

/* Define the variable; this will not override any user definition.
   Normally a reference to this variable is written into the value of
   MAKEFLAGS, allowing the user to override this value to affect the
   exported value of MAKEFLAGS. In POSIX-pedantic mode, we cannot
   allow the user's setting of MAKEOVERRIDES to affect MAKEFLAGS, so
   a reference to this hidden variable is written instead. */
define_variable_cname ("MAKEOVERRIDES", "$\{-*-command-variables-\}",
o_env, l);
#endif VMS
  vms_export_dcl_symbol ("MAKEOVERRIDES", "$\{-*-command-variables-\}"");
#endif

/* If there were -C flags, move ourselves about. */
if (directories != 0)
{
  unsigned int i;
  for (i = 0; directories->list[i] != 0; ++i)
  {
    const char *dir = directories->list[i];
#ififdef WINDOWS32
  /* WINDOWS32 chdir() doesn't work if the directory has a trailing '/'
     But allow -C/ just in case someone wants that. */
  
  char *p = (char *)dir + strlen (dir) - 1;
  while (p > dir && (p[0] == '\' || p[0] == '/'))
    --p;
  p[1] = '\0';
 #endif
  if (chdir (dir) < 0)
    pfatal_with_name (dir);
  }
}
#ifdef WINDOWS32
/*
 * THIS BLOCK OF CODE MUST COME AFTER chdir() CALL ABOVE IN ORDER
 * TO NOT CONFUSE THE DEPENDENCY CHECKING CODE IN implicit.c.
 *
 * The functions in dir.c can incorrectly cache information for "." 
 * before we have changed directory and this can cause file 
 * lookups to fail because the current directory (.) was pointing 
 * at the wrong place when it was first evaluated.
 */
no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

/* Except under -s, always do -w in sub-makes and under -C. */
if (!silent_flag && (directories != 0 || makelevel > 0))
    print_directory_flag = 1;

/* Let the user disable that with --no-print-directory. */
if (inhibit_print_directory_flag)
    print_directory_flag = 0;

/* If -R was given, set -r too (doesn't make sense otherwise!) */
if (no_builtin_variables_flag)
    no_builtin_rules_flag = 1;

/* Construct the list of include directories to search. */

construct_include_path (include_directories == 0
    ? 0 : include_directories->list);

/* If we chdir'ed, figure out where we are now. */
if (directories)
{
    #ifdef WINDOWS32
    if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
    #else
    if (getcwd (current_directory, GET_PATH_MAX) == 0)
    #endif
        starting_directory = 0;
    }
    #ifdef HAVE_GETCWD
    perror_with_name ("getcwd", "");
    #else
    OS (error, NILF, "getwd: %s", current_directory);
    #endif
        starting_directory = 0;
    }
else
starting_directory  = current_directory;
}

define_variable_cname ("CURDIR", current_directory, o_file, 0);

/* Read any stdin makefiles into temporary files. */

if (makefiles != 0)
{
  unsigned int i;
  for (i = 0; i < makefiles->idx; ++i)
    if (makefiles->list[i][0] == '-' && makefiles->list[i][1] == '0')
      {
        /* This makefile is standard input. Since we may re-exec
         and thus re-read the makefiles, we read standard input
         into a temporary file and read from that. */
        FILE *outfile;
        char *template;
        const char *tmpdir;

        if (stdin_nm)
          O (fatal, NILF,
             _("Makefile from standard input specified twice.")));;

#ifdef VMS
  # define DEFAULT_TMPDIR   "/sys$scratch/
#else
  # ifdef P_tmpdir
  # define DEFAULT_TMPDIR   P_tmpdir
  # else
  # define DEFAULT_TMPDIR   "/tmp"
  # endif
#endif
#define DEFAULT_TMPFILE     "GmXXXXXX"

  if (((tmpdir = getenv ("TMPDIR")) == NULL || *tmpdir == '\0')
  #if defined (__MSDOS__) || defined (WINDOWS32) || defined (__EMX__)
    /* These are also used commonly on these platforms. */
    && ((tmpdir = getenv ("TEMP")) == NULL || *tmpdir == '\0')
    && ((tmpdir = getenv ("TMP")) == NULL || *tmpdir == '\0')
  #endif
  )
    tmpdir = DEFAULT_TMPDIR;

template = alloca (strlen (tmpdir) + CSTRLEN (DEFAULT_TMPFILE) + 2);
strcpy (template, tmpdir);

#ifdef HAVE_DOS_PATHS

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if (strchr (/\", template[strlen (template) - 1]) == NULL)
    strcat (template, "/");
#endif
#endif /* !HAVE_DOS_PATHS */
strcat (template, DEFAULT_TMPFILE);
outfile = output_tmpfile (&stdin_nm, template);
if (outfile == 0)
    pfatal_with_name (_("fopen (temporary file)"));
while (!feof (stdin) && ! ferror (stdin))
{
    char buf[2048];
    unsigned int n = fread (buf, 1, sizeof (buf), stdin);
    if (n > 0 && fwrite (buf, 1, n, outfile) != n)
        pfatal_with_name (_("fwrite (temporary file)"));
}
fclose (outfile);

/* Replace the name that read_all_makefiles will
   see with the name of the temporary file. */
makefiles->list[i] = strcache_add (stdin_nm);

/* Make sure the temporary file will not be remade. */
{
    struct file *f = enter_file (strcache_add (stdin_nm));
    f->updated = 1;
    f->update_status = us_success;
    f->command_state = cs_finished;
    /* Can't be intermediate, or it'll be removed too early for
       make re-exec. */
    f->intermediate = 0;
    f->dontcare = 0;
}
}

#ifndef __EMX__ /* Don't use a SIGCHLD handler for OS/2 */
#if !defined(HAVE_WAIT_NOHANG) || defined(MAKE_JOBSERVER)
/* Set up to handle children dying. This must be done before
   reading in the makefiles so that 'shell' function calls will work.

   If we don't have a hanging wait we have to fall back to old, broken
   functionality here and rely on the signal handler and counting
   children.
If we're using the jobs pipe we need a signal handler so that SIGCHLD is not ignored; we need it to interrupt the read(2) of the jobserver pipe if we're waiting for a token.

If none of these are true, we don't need a signal handler at all. */
{
    # if defined SIGCHLD
    bsd_signal (SIGCHLD, child_handler);
    # endif
    # if defined SIGCLD && SIGCLD != SIGCHLD
    bsd_signal (SIGCLD, child_handler);
    # endif
}
#endif
#endif
#endif

/* Let the user send us SIGUSR1 to toggle the -d flag during the run. */
#ifdef SIGUSR1
    bsd_signal (SIGUSR1, debug_signal_handler);
#endif

/* Define the initial list of suffixes for old-style rules. */
set_default_suffixes();

/* Define the file rules for the built-in suffix rules. These will later be converted into pattern rules. We used to do this in install_default_implicit_rules, but since that happens after reading makefiles, it results in the built-in pattern rules taking precedence over makefile-specified suffix rules, which is wrong. */
install_default_suffix_rules();

/* Define some internal and special variables. */
define_automatic_variables();

/* Set up the MAKEFLAGS and MFLAGS variables for makefiles to see. */
Initialize it to be exported but allow the makefile to reset it. */
define_makeflags (0, 0)->export = v_export;

/* Define the default variables. */
define_default_variables ();

default_file = enter_file (strcache_add (".DEFAULT"));

default_goal_var = define_variable_cname (".DEFAULT_GOAL", "", o_file, 0);

/* Evaluate all strings provided with --eval. 
Also set up the $(-*-eval-flags-*-) variable. */

if (eval_strings)
{
    char *p, *value;
    unsigned int i;
    unsigned int len = (CSTRLEN ("--eval=") + 1) * eval_strings->idx;

    for (i = 0; i < eval_strings->idx; ++i)
    {
        p = xstrdup (eval_strings->list[i]);
        len += 2 * strlen (p);
        eval_buffer (p, NULL);
        free (p);
    }

    p = value = alloca (len);
    for (i = 0; i < eval_strings->idx; ++i)
    {
        strcpy (p, "--eval=");
        p += CSTRLEN ("--eval=");
        p = quote_for_env (p, eval_strings->list[i]);
        *(p++) = ' ';
    }
    p[-1] = '\0';

    define_variable_cname ("-*-eval-flags-*-", value, o_automatic, 0);
}

/* Read all the makefiles. */

read_files = read_all_makefiles (makefiles == 0 ? 0 : makefiles->list);

#ifdef WINDOWS32
/* look one last time after reading all Makefiles */
if (no_default_sh_exe)
    no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
/* We need to know what kind of shell we will be using. */
{
  extern int _is_unixy_shell (const char * _path);
  struct variable *shv = lookup_variable (STRING_SIZE_TUPLE ("SHELL"));
  extern int unixy_shell;
  extern const char *default_shell;

  if (shv && *shv->value)
  {
    char *shell_path = recursively_expand (shv);

    if (shell_path && _is_unixy_shell (shell_path))
      unixy_shell = 1;
    else
      unixy_shell = 0;
    if (shell_path)
      default_shell = shell_path;
  }
}
#endif /* __MSDOS__ || __EMX__ */

{
  int old_builtin_rules_flag = no_builtin_rules_flag;
  int old_builtin_variables_flag = no_builtin_variables_flag;

  /* Decode switches again, for variables set by the makefile. */
  decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

  /* Clear GNUMAKEFLAGS to avoid duplication. */
  define_variable_cname ("GNUMAKEFLAGS", ",", o_override, 0);

  decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));
  #if 0
  decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
  #endif

  /* Reset in case the switches changed our mind. */
  syncing = (output_sync == OUTPUT_SYNC_LINE
              || output_sync == OUTPUT_SYNC_TARGET);

  if (make_sync.syncout && ! syncing)
    output_close (&make_sync);

  make_sync.syncout = syncing;
  OUTPUT_SET (&make_sync);
/* If we've disabled builtin rules, get rid of them. */
if (no_builtin_rules_flag && ! old_builtin_rules_flag)
{
  if (suffix_file->builtin)
  {
    free_dep_chain (suffix_file->deps);
    suffix_file->deps = 0;
  }
  define_variable_cname ("SUFFIXES", ",", o_default, 0);
}

/* If we've disabled builtin variables, get rid of them. */
if (no_builtin_variables_flag && ! old_builtin_variables_flag)
  undefine_default_variables();
}

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
if (arg_job_slots != 1
  # ifdef __EMX__
    && _osmode != OS2_MODE /* turn off -j if we are in DOS mode */
  # endif
  
  {          
    O (error, NILF,
        "("Parallel jobs (-j) are not supported on this platform.");
    O (error, NILF, "("Resetting to single job (-j1) mode.");
    arg_job_slots = job_slots = 1;
  }
  #endif

/* If we have >1 slot at this point, then we're a top-level make. 
   Set up the jobserver.

   Every make assumes that it always has one job it can run. For the 
   submakes it's the token they were given by their parent. For the top 
   make, we just subtract one from the number the user wants. */

if (job_slots > 1 && jobserver_setup (job_slots - 1))
{
  /* Fill in the jobserver_auth for our children. */
  jobserver_auth = jobserver_get_auth();

  if (jobserver_auth)
  {
    /* We're using the jobserver so set job_slots to 0. */
    master_job_slots = job_slots;
    job_slots = 0;
/* If we're not using parallel jobs, then we don't need output sync. 
   This is so people can enable output sync in GNUMAKEFLAGS or similar, but 
   not have it take effect unless parallel builds are enabled. */
if (syncing && job_slots == 1)
{
    OUTPUT_UNSET ();
    output_close (&make_sync);
    syncing = 0;
    output_sync = OUTPUT_SYNC_NONE;
}
#endif

/* Set up MAKEFLAGS and MFLAGS again, so they will be right. */
define_makeflags (1, 0);

/* Make each 'struct goaldep' point at the 'struct file' for the file 
   depended on. Also do magic for special targets. */
snap_deps ();

/* Convert old-style suffix rules to pattern rules. It is important to 
do this before installing the built-in pattern rules below, so that 
makefile-specified suffix rules take precedence over built-in pattern 
rules. */
convert_to_pattern ();

/* Install the default implicit pattern rules. 
   This used to be done before reading the makefiles. 
   But in that case, built-in pattern rules were in the chain 
   before user-defined ones, so they matched first. */
install_default_implicit_rules ();

/* Compute implicit rule limits. */
count_implicit_rule_limits ();
/* Construct the listings of directories in VPATH lists. */
build_vpath_lists();

/* Mark files given with -o flags as very old and as having been updated already, and files given with -W flags as brand new (time-stamp as far as possible into the future). If restarts is set we'll do -W later. */
if (old_files != 0)
{
    const char **p;
    for (p = old_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = OLD_MTIME;
        f->updated = 1;
        f->update_status = us_success;
        f->command_state = cs_finished;
    }
}

if (!restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}

/* Initialize the remote job module. */
remote_setup();

/* Dump any output we've collected. */
OUTPUT_UNSET();
output_close (&make_sync);

if (read_files != 0)
{
    /* Update any makefiles if necessary. */

    FILE_TIMESTAMP *makefile_mtimes = 0;
    unsigned int mm_idx = 0;
    char **aargv = NULL;
    const char **nargv;
int nargc;
enum update_status status;

DB (DB_BASIC, ("Updating makefiles....\n");)

/* Remove any makefiles we don't want to try to update. 
   Also record the current modtimes so we can compare them later. */
{
    register struct goaldep *d, *last;
    last = 0;
    d = read_files;
    while (d != 0)
    {
        struct file *f = d->file;
        if (f->double_colon)
            for (f = f->double_colon; f != NULL; f = f->prev)
            {
                if (f->deps == 0 && f->cmds != 0)
                {
                    /* This makefile is a :: target with commands, but 
                       no dependencies. So, it will always be remade. 
                       This might well cause an infinite loop, so don't 
                       try to remake it. (This will only happen if 
                       your makefiles are written exceptionally 
                       stupidly; but if you work for Athena, that's how 
                       you write your makefiles.) */
                    DB (DB_VERBOSE, 
                        ("Makefile '%s' might loop; not remaking it.\n"),
                        f->name));
                    if (last == 0)
                        read_files = d->next;
                    else
                        last->next = d->next;
                    /* Free the storage. */
                    free_goaldep (d);
                    d = last == 0 ? read_files : last->next;
                    break;
                }
            }
    }
    if (f == NULL || !f->double_colon)
    {
        makefile_mtimes = xrealloc (makefile_mtimes,
(mm_idx+1)
    * sizeof (FILE_TIMESTAMP));
makefile_mtimes[mm_idx++] = file_mtime_no_search (d->file);
last = d;
d = d->next;
}
}
}

/* Set up 'MAKEFLAGS' specially while remaking makefiles. */
define_makeflags (1, 1);
{
    int orig_db_level = db_level;
    if (! ISDB (DB_MAKEFILES))
        db_level = DB_NONE;
    rebuilding_makefiles = 1;
    status = update_goal_chain (read_files);
    rebuilding_makefiles = 0;
    db_level = orig_db_level;
}
}
switch (status)
{
    case us_question:
    /* The only way this can happen is if the user specified -q and asked
     * for one of the makefiles to be remade as a target on the command
     * line. Since we're not actually updating anything with -q we can
     * treat this as "did nothing". */
    
    case us_none:
    /* Did nothing. */
    break;

    case us_failed:
    /* Failed to update. Figure out if we care. */
    {
    /* Nonzero if any makefile was successfully remade. */
    int any_remade = 0;
    /* Nonzero if any makefile we care about failed
     * in updating or could not be found at all. */
    int any_failed = 0;
    unsigned int i;
    struct goaldep *d;
for (i = 0, d = read_files; d != 0; ++i, d = d->next)
{
    if (d->file->updated)
    {
        /* This makefile was updated. */
        if (d->file->update_status == US_SUCCESS)
        {
            /* It was successfully updated. */
            any_remade |= (file_mtime_no_search (d->file)
                            != makefile_mtimes[i]);
        }
    }
    else if (! (d->flags & RM_DONTCARE))
    {
        FILE_TIMESTAMP mtime;
        /* The update failed and this makefile was not
           from the MAKEFILES variable, so we care. */
        OS (error, NILF, _("Failed to remake makefile '%s'."),
            d->file->name);
        mtime = file_mtime_no_search (d->file);
        any_remade |= (mtime != NONEXISTENT_MTIME
                        && mtime != makefile_mtimes[i]);
        makefile_status = MAKE_FAILURE;
    }
    else
    {
        /* This makefile was not found at all. */
        if (! (d->flags & RM_DONTCARE))
        {
            const char *dnm = dep_name (d);
            size_t l = strlen (dnm);

            /* This is a makefile we care about. See how much. */
            if (d->flags & RM_INCLUDED)
            /* An included makefile. We don't need to die, but we
               do want to complain. */
                error (NILF, l,
                    _("Included makefile '%s' was not found."), dnm);
            else
            {
                /* A normal makefile. We must die later. */
                error (NILF, l,
                    _("Makefile '%s' was not found"), dnm);
                any_failed = 1;
            }
        }
    }
}
/* Reset this to empty so we get the right error message below. */
read_files = 0;
if (any_remade)
  goto re_exec;
if (any_failed)
  die (MAKE_FAILURE);
break;
}

case us_success:
  re_exec:
  /* Updated successfully. Re-exec ourselves. */
remove_intermediates (0);

if (print_data_base_flag)
  print_data_base ();
clean_jobserver (0);

if (makefiles != 0)
  {
    /* These names might have changed. */
    int i, j = 0;
    for (i = 1; i < argc; ++i)
      if (strneq (argv[i], "-f", 2)) /* XXX */
        {
          if (argv[i][2] == '\0')
            /* This cast is OK since we never modify argv. */
            argv[++i] = (char *) makefiles->list[j];
          else
            argv[i] = xstrdup (concat (2, "-f", makefiles->list[j]));
          ++j;
        }
  }
/* Add -o option for the stdin temporary file, if necessary. */
nargc = argc;
if (stdin_nm)
  {
    void *m = xmalloc ((nargc + 2) * sizeof (char *));
    argv = m;
    memcpy (argv, argv, argc * sizeof (char *));
    argv[nargc++] = xstrdup (concat (2, "-o", stdin_nm));
    argv[nargc] = 0;
    argv = m;
  }
else
  argv = (const char**)argv;

/* Add -o option for the stdin temporary file, if necessary. */
nargc = argc;
if (stdin_nm)
  {
    void *m = xmalloc ((nargc + 2) * sizeof (char *));
    argv = m;
    memcpy (argv, argv, argc * sizeof (char *));
    argv[nargc++] = xstrdup (concat (2, "-o", stdin_nm));
    argv[nargc] = 0;
    argv = m;
  }
else
  argv = (const char**)argv;
if (directories != 0 && directories->idx > 0)
{
    int bad = 1;
    if (directory_before_chdir != 0)
    {
        if (chdir (directory_before_chdir) < 0)
            perror_with_name ("chdir", ".");
        else
            bad = 0;
    }
    if (bad)
        O (fatal, NILF,
            _("Couldn't change back to original directory."));
}

++restarts;

if (ISDB (DB_BASIC))
{
    const char **p;
    printf ("Re-executing[%u]:", restarts);
    for (p = nargv; *p != 0; ++p)
        printf (" %s", *p);
    printf ("\n");
    fflush (stdout);
}

#ifndef _AMIGA
{
    char **p;
    for (p = environ; *p != 0; ++p)
    {
        if (strneq (*p, MAKELEVEL_NAME ",", MAKELEVEL_LENGTH+1))
            *
                p = alloca (40);
        sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
    }

    ifdef VMS
    vms_putenv_symbol (*p);
    #endif
    }
else if (strneq (*p, "MAKE_RESTARTS="/", CSTRLEN ("MAKE_RESTARTS="/")))
{
    *
        p = alloca (40);
    sprintf (*p, "MAKE_RESTARTS=%s%u", OUTPUT_IS_TRACED () ? "-" : "", restarts);
    restarts = 0;
}
#else /* AMIGA */
  
  char buffer[256];

  sprintf(buffer, "%u", makelevel);
  SetVar(MAKELEVEL_NAME, buffer, -1, GVF_GLOBAL_ONLY);

  sprintf(buffer, "%s%u", OUTPUT_IS_TRACED() ? "-" : ",", restarts);
  SetVar("MAKE_RESTARTS", buffer, -1, GVF_GLOBAL_ONLY);
  restarts = 0;

#endif

/* If we didn't set the restarts variable yet, add it. */
if (restarts)
{
  char *b = alloca(40);
  sprintf(b, "MAKE_RESTARTS=%s%u",
      OUTPUT_IS_TRACED() ? "-" : ",", restarts);
  putenv(b);
}

fflush(stdout);
fflush(stderr);

#ifdef _AMIGA
  exec_command(nargv);
  exit(0);
#else defined (__EMX__)
  /* It is not possible to use execve() here because this
   * would cause the parent process to be terminated with
   * exit code 0 before the child process has been terminated.
   * Therefore it may be the best solution simply to spawn the
   * child process including all file handles and to wait for its
   * termination. */
  int pid;
  int r;
  pid = child_execute_job(NULL, 1, nargv, environ);

  /* is this loop really necessary? */
  do {
    pid = wait(&r);
  } while (pid <= 0);
  /* use the exit code of the child process */
  exit(WIFEXITED(r) ? WEXITSTATUS(r) : EXIT_FAILURE);
} #else
#ifdef SET_STACK_SIZE
/* Reset limits, if necessary. */
if (stack_limit.rlim_cur)
    setrlimit (RLIMIT_STACK, &stack_limit);
#endif
    exec_command ((char **)nargv, environ);
#endif
free (aargv);
break;
}

/* Free the makefile mtimes. */
free (makefile_mtimes);
}

/* Set up 'MAKEFLAGS' again for the normal targets. */
define_makeflags (1, 0);

/* Set always_make_flag if -B was given. */
always_make_flag = always_make_set;

/* If restarts is set we haven't set up -W files yet, so do that now. */
if (restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}

/* If there is a temp file from reading a makefile from stdin, get rid of it now. */
if (stdin_nm && unlink (stdin_nm) < 0 && errno != ENOENT)
    perror_with_name (_("unlink (temporary file): "), stdin_nm);

/* If there were no command-line goals, use the default. */
if (goals == 0)
{
    char *p;

    if (default_goal_var->recursive)
        p = variable_expand (default_goal_var->value);
    else
        {
p = variable_buffer_output (variable_buffer, default_goal_var->value, strlen (default_goal_var->value));

*p = '\'0';
p = variable_buffer;
}

if (*p != \0')
{
    struct file *f = lookup_file (p);

    /* If .DEFAULT_GOAL is a non-existent target, enter it into the table and let the standard logic sort it out. */
    if (f == 0)
    {
        struct nameseq *ns;

        ns = PARSE_SIMPLE_SEQ (&p, struct nameseq);
        if (ns)
        {
            /* .DEFAULT_GOAL should contain one target. */
            if (ns->next != 0)
                O (fatal, NILF, 
                    (_(".DEFAULT_GOAL contains more than one target")));

            f = enter_file (strcache_add (ns->name));

            ns->name = 0; /* It was reused by enter_file(). */
            free_ns_chain (ns);
        }
    }
    if (f)
    {
        goals = alloc_goaldep ();
        goals->file = f;
    }
}
else
    lastgoal->next = 0;

if (!goals)
{
    if (read_files == 0)
        O (fatal, NILF, 
            (_("No targets specified and no makefile found")));

    O (fatal, NILF, 
        (_("No targets"));
}
/* Update the goals. */

DB (DB_BASIC, (_("Updating goal targets...
")));

{
    switch (update_goal_chain (goals))
    {
        case us_none:
            /* Nothing happened. */
            /* FALLTHROUGH */
        case us_success:
            /* Keep the previous result. */
            break;
        case us_question:
            /* We are under -q and would run some commands. */
            makefile_status = MAKE_TROUBLE;
            break;
        case us_failed:
            /* Updating failed. POSIX.2 specifies exit status >1 for this; */
            makefile_status = MAKE_FAILURE;
            break;
    }

    /* If we detected some clock skew, generate one last warning */
    if (clock_skew_detected)
        O (error, NILF,
            _("warning: Clock skew detected. Your build may be incomplete.
"));

    /* Exit. */
    die (makefile_status);
}

/* NOTREACHED */
exit (MAKE_SUCCESS);

/* Parsing of arguments, decoding of switches. */

static char options[1 + sizeof (switches) / sizeof (switches[0]) * 3];
static struct option long_options[(sizeof (switches) / sizeof (switches[0])) +
    (sizeof (long_option_aliases) / sizeof (long_option_aliases[0]))];

/* Fill in the string and vector for getopt. */
static void
init_switches (void)
{  
  char *p;
  unsigned int c;
  unsigned int i;

  if (options[0] != '0')
    /* Already done. */
    return;

  p = options;

  /* Return switch and non-switch args in order, regardless of
   POSIXLY_CORRECT. Non-switch args are returned as option 1. */
  *p++ = '-';

  for (i = 0; switches[i].c != '0'; ++i)
    {
      long_options[i].name = (switches[i].long_name == 0 ? "" : switches[i].long_name);
      long_options[i].flag = 0;
      long_options[i].val = switches[i].c;
      if (short_option (switches[i].c))
        *p++ = switches[i].c;
      switch (switches[i].type)
        {
        case flag:
        case flag_off:
        case ignore:
          long_options[i].has_arg = no_argument;
          break;

        case string:
        case strlist:
        case filename:
        case positive_int:
        case floating:
          if (short_option (switches[i].c))
            *p++ = ':';
          if (switches[i].noarg_value != 0)
            {
              if (short_option (switches[i].c))
                *p++ = ':';
              long_options[i].has_arg = optional_argument;
              break;
            }
          else
            long_options[i].has_arg = required_argument;
          break;
        }  

  for (i = 0; switches[i].c != '0'; ++i)
for (c = 0; c < (sizeof (long_option_aliases) / sizeof (long_option_aliases[0]));
    ++c)
long_options[i++] = long_option_aliases[c];
long_options[i].name = 0;
}

/* Non-option argument. It might be a variable definition. */
static void
handle_non_switch_argument (const char *arg, int env)
{
    struct variable *v;

    if (arg[0] == '-' && arg[1] == '0')
        /* Ignore plain '-' for compatibility. */
        return;
#ifndef VMS
    /* VMS DCL quoting can result in foo="bar baz" showing up here.
    Need to remove the double quotes from the value. */
    char * eq_ptr;
    char * new_arg;
    eq_ptr = strchr (arg, '=');
    if ((eq_ptr != NULL) && (eq_ptr[1] == '0'))
    {
        int len;
        int seg1;
        int seg2;
        len = strlen(arg);
        new_arg = alloca(len);
        seg1 = eq_ptr - arg + 1;
        strncpy(new_arg, arg, (seg1));
        seg2 = len - seg1 - 1;
        strncpy(&new_arg[seg1], &eq_ptr[2], seg2);
        new_arg[seg1 + seg2] = 0;
        if (new_arg[seg1 + seg2 - 1] == '0')
            new_arg[seg1 + seg2 - 1] = 0;
        arg = new_arg;
    }
#endif
    v = try_variable_definition (0, arg, o_command, 0);
    if (v != 0)
/* It is indeed a variable definition. If we don't already have this one, record a pointer to the variable for later use in define_makeflags. */
struct command_variable *cv;

for (cv = command_variables; cv != 0; cv = cv->next)
  if (cv->variable == v)
    break;

if (! cv)
  {
    cv = xmalloc (sizeof (*cv));
    cv->variable = v;
    cv->next = command_variables;
    command_variables = cv;
  }
else if (! env)
  {
    /* Not an option or variable definition; it must be a goal target! Enter it as a file and add it to the dep chain of goals. */
    struct file *f = enter_file (strcache_add (expand_command_line_file (arg)));
    f->cmd_target = 1;

    if (goals == 0)
      {
        goals = alloc_goaldep ();
        lastgoal = goals;
      }
    else
      {
        lastgoal->next = alloc_goaldep ();
        lastgoal = lastgoal->next;
      }

    lastgoal->file = f;

    {
      /* Add this target name to the MAKECMDGOALS variable. */
      struct variable *gv;
      const char *value;

      gv = lookup_variable (STRING_SIZE_TUPLE ("MAKECMDGOALS"));
      if (gv == 0)
        value = f->name;
      else
        {
/* Paste the old and new values together */
unsigned int oldlen, newlen;
char *vp;

oldlen = strlen (gv->value);
newlen = strlen (f->name);
vp = alloca (oldlen + 1 + newlen + 1);
memcpy (vp, gv->value, oldlen);
vp[oldlen] = '\0';
memcpy (&vp[oldlen + 1], f->name, newlen + 1);
value = vp;
}
define_variable_cname ("MAKECMDGOALS", value, o_default, 0);
}
}
}

/* Print a nice usage method. */

static void
print_usage (int bad)
{
  const char *const *cpp;
  FILE *usageto;

  if (print_version_flag)
    print_version ();

  usageto = bad ? stderr : stdout;

  fprintf (usageto, _("Usage: %s [options] [target] ...
"), program);

  for (cpp = usage; *cpp; ++cpp)
    fputs (_(*cpp), usageto);

  if (!remote_description || *remote_description == '\0')
    fprintf (usageto, _("This program built for %s\n"), make_host);
  else
    fprintf (usageto, _("This program built for %s (%s)\n"),
              make_host, remote_description);

  fprintf (usageto, _("Report bugs to <bug-make@gnu.org>\n"));
}

/* Decode switches from ARGC and ARGV.
   They came from the environment if ENV is nonzero. */

static void
decode_switches (int argc, const char **argv, int env)
{
    int bad = 0;
    register const struct command_switch *cs;
    register struct stringlist *sl;
    register int c;

    /* getopt does most of the parsing for us.
    First, get its vectors set up. */
    init_switches ();

    /* Let getopt produce error messages for the command line,
    but not for options from the environment. */
    opterr = !env;
    /* Reset getopt's state. */
    optind = 0;

    while (optind < argc)
    {
        const char *coptarg;

        /* Parse the next argument. */
        c = getopt_long (argc, (char*const*)argv, options, long_options, NULL);
        coptarg = optarg;
        if (c == EOF)
            /* End of arguments, or "--" marker seen. */
            break;
        else if (c == 1)
            /* An argument not starting with a dash. */
            handle_non_switch_argument (coptarg, env);
        else if (c == '?')
            /* Bad option. We will print a usage message and die later.
            But continue to parse the other options so the user can
            see all he did wrong. */
            bad = 1;
        else
            for (cs = switches; cs->c != '\0'; ++cs)
                if (cs->c == c)
                    {
                        /* Whether or not we will actually do anything with
                        this switch. We test this individually inside the
                        switch below rather than just once outside it, so that
                        options which are to be ignored still consume args. */
                        int doit = !env || cs->env;

                        switch (cs->type)
                        {
                        }
default:
    abort();

case ignore:
    break;

case flag:
case flag_off:
    if (doit)
        *(int *) cs->value_ptr = cs->type == flag;
    break;

case string:
case strlist:
case filename:
    if (!doit)
        break;

    if (! coptarg)
        coptarg = xstrdup (cs->noarg_value);
    else if (*coptarg == '\0')
    {
        char opt[2] = "c";
        const char *op = opt;

        if (short_option (cs->c))
            opt[0] = cs->c;
        else
            op = cs->long_name;

        error (NILF, strlen (op),
            "(the '%s%s' option requires a non-empty string argument),
            short_option (cs->c) ? "-" : "--", op);
        bad = 1;
        break;
    }

    if (cs->type == string)
    {
        char **val = (char **)cs->value_ptr;
        free (*val);
        *val = xstrdup (coptarg);
        break;
    }

    sl = *(struct stringlist **) cs->value_ptr;
    if (sl == 0)
        {
sl = xmalloc (sizeof (struct stringlist));
sl->max = 5;
sl->idx = 0;
sl->list = xmalloc (5 * sizeof (char *));
*(struct stringlist **) cs->value_ptr = sl;
}
else if (sl->idx == sl->max - 1)
{
    sl->max += 5;
    /* MSVC erroneously warns without a cast here. */
    sl->list = xrealloc ((void *)sl->list,
        sl->max * sizeof (char *));
}
if (cs->type == filename)
    sl->list[sl->idx++] = expand_command_line_file (coptarg);
else
    sl->list[sl->idx++] = xstrdup (coptarg);
sl->list[sl->idx] = 0;
break;

case positive_int:
    /* See if we have an option argument; if we do require that
    it's all digits, not something like "10foo". */
    if (coptarg == 0 && argc > optind)
    {
        const char *cp;
        for (cp=argv[optind]; ISDIGIT (cp[0]); ++cp)
            ;
        if (cp[0] == '\0')
            coptarg = argv[optind++];
    }
if (!doit)
    break;
if (coptarg)
{
    int i = atoi (coptarg);
    const char *cp;

    /* Yes, I realize we're repeating this in some cases. */
    for (cp = coptarg; ISDIGIT (cp[0]); ++cp)
        ;
    if (i < 1 || cp[0] != '\0')
        {
            error (NILF, 0,
                "the '-%c' option requires a positive integer argument"),
        }
cs->c);  
bad = 1;  
}  
else  
  *(unsigned int *) cs->value_ptr = i;  
}  
else  
  *(unsigned int *) cs->value_ptr  
  = *(unsigned int *) cs->noarg_value;  
break;  
#endif  
case floating:  
  if (coptarg == 0 && optind < argc  
    && (ISDIGIT (argv[optind][0]) || argv[optind][0] == '.'))  
    coptarg = argv[optind++];  

  if (doit)  
    *(double *) cs->value_ptr  
    = (coptarg != 0 ? atof (coptarg)  
     : *(double *) cs->noarg_value);  
    break;  
#endif  
}  
/* We've found the switch. Stop looking. */  
break;  
}  
}  
/* There are no more options according to getting getopt, but there may  
be some arguments left. Since we have asked for non-option arguments  
to be returned in order, this only happens when there is a "--"  
argument to prevent later arguments from being options. */  
while (optind < argc)  
  handle_non_switch_argument (argv[optind++], env);  

if (!env && (bad || print_usage_flag))  
{  
  print_usage (bad);  
  die (bad ? MAKE_FAILURE : MAKE_SUCCESS);  
}  
/* If there are any options that need to be decoded do it now. */  
decode_debug_flags ();  
decode_output_sync_flags ();  
}
/* Decode switches from environment variable ENVAR (which is LEN chars long).
We do this by chopping the value into a vector of words, prepending a
dash to the first word if it lacks one, and passing the vector to
decode_switches. */
static void
decode_env_switches (const char *envar, unsigned int len)
{
char *varref = alloca (2 + len + 2);
char *value, *p, *buf;
int argc;
const char **argv;
/* Get the variable's value. */
varref[0] = '$';
varref[1] = '(';
memcpy (&varref[2], envar, len);
varref[2 + len] = ')';
varref[2 + len + 1] = '\0';
value = variable_expand (varref);
/* Skip whitespace, and check for an empty value. */
NEXT_TOKEN (value);
len = strlen (value);
if (len == 0)
return;
/* Allocate a vector that is definitely big enough. */
argv = alloca ((1 + len + 1) * sizeof (char *));
/* getopt will look at the arguments starting at ARGV[1].
Prepend a spacer word. */
argv[0] = 0;
argc = 1;
/* We need a buffer to copy the value into while we split it into words
and unquote it. Set up in case we need to prepend a dash later. */
buf = alloca (1 + len + 1);
buf[0] = '-';
p = buf+1;
argv[argc] = p;
while (*value != '\0')
{
if (*value == '\\' && value[1] != '\0')
++value;
/* Skip the backslash. */
else if (ISBLANK (*value))
{

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/* End of the word. */
*p++ = '0';
argv[++argc] = p;
do
++value;
while (ISBLANK (*value));
continue;
}
*p++ = *value++;
}
*p = '0';
argv[++]argc = 0;
assert (p < buf + len + 2);

if (argv[1][0] != '-' && strchr (argv[1], '=')) == 0)
   /* The first word doesn't start with a dash and isn't a variable
    * definition, so add a dash. */
   argv[1] = buf;

/* Parse those words. */
decode_switches (argc, argv, 1);
}

/* Quote the string IN so that it will be interpreted as a single word with
no magic by decode_env_switches; also double dollar signs to avoid
variable expansion in make itself. Write the result into OUT, returning
the address of the next character to be written.
Allocating space for OUT twice the length of IN is always sufficient. */

static char *
quote_for_env (char *out, const char *in)
{
    while (*in != '0')
    {
        if (*in == $')
            *out++ = '$';
        else if (ISBLANK (*in) || *in == \)
            *out++ = \;
        *out++ = *in++;
    }

    return out;
}

/* Define the MAKEFLAGS and MFLAGS variables to reflect the settings of the
command switches. Include options with args if ALL is nonzero.
Don't include options with the 'no_makefile' flag set if MAKEFILE. */
static struct variable *
define_makeflags (int all, int makefile)
{
    const char ref[] = "$(MAKEOVERRIDES)";
    const char posixref[] = "$(-*-command-variables-*)";
    const char evalref[] = "$(-*-eval-flags-*)";
    const struct command_switch *cs;
    char *flagstring;
    char *p;

    /* We will construct a linked list of 'struct flag's describing
     all the flags which need to go in MAKEFLAGS. Then, once we
     know how many there are and their lengths, we can put them all
     together in a string. */

    struct flag
    {
        struct flag *next;
        const struct command_switch *cs;
        const char *arg;
    }
    struct flag *flags = 0;
    struct flag *last = 0;
    unsigned int flagslen = 0;
    #define ADD_FLAG(ARG, LEN) \
        do { \
            struct flag *new = alloca (sizeof (struct flag)); \
            new->cs = cs; \
            new->arg = (ARG); \
            new->next = 0; \
            if (! flags) \
                flags = new; \
            else \
                last->next = new; \
            last = new; \
            if (new->arg == 0) \
                /* Just a single flag letter: " -x" */ \
                flagslen += 3; \
            else \
                /* " -xfoo", plus space to escape "foo". */ \
                flagslen += 1 + 1 + 1 + (3 * (LEN)); \
            if (!short_option (cs->c)) \
                /* This switch has no single-letter version, so we use the long. */ \
                flagslen += 2 + strlen (cs->long_name); \
        } while (0)
    
    for (cs = switches; cs->c != '\0'; ++cs)
        if (cs->toenv && (!makefile || !cs->no_makefile))
switch (cs->type)
{
    case ignore:
        break;

    case flag:
        case flag_off:
            if (((int *) cs->value_ptr) == (cs->type == flag_off)
                && (cs->default_value == 0
                    || *(int *) cs->value_ptr != *(int *) cs->default_value))
                ADD_FLAG (0, 0);
        break;

    case positive_int:
        if (all)
            {
                if ((cs->default_value != 0
                        && *(unsigned int *) cs->value_ptr
                        == *(unsigned int *) cs->default_value))
                    break;
                else if (cs->noarg_value != 0
                        && *(unsigned int *) cs->value_ptr ==
                        *(unsigned int *) cs->noarg_value)
                    ADD_FLAG ("", 0); /* Optional value omitted; see below. */
                else
                    {
                        char *buf = alloca (30);
                        sprintf (buf, "%u", *(unsigned int *) cs->value_ptr);
                        ADD_FLAG (buf, strlen (buf));
                    }
            }
        break;

#ifndef NO_FLOAT
    case floating:
        if (all)
            {
                if (cs->default_value != 0
                        && *(double *) cs->value_ptr
                        == *(double *) cs->default_value))
                    break;
                else if (cs->noarg_value != 0
                        && *(double *) cs->value_ptr ==
                        *(double *) cs->noarg_value)
                    ADD_FLAG ("", 0); /* Optional value omitted; see below. */
                else
                    {
                        char *buf = alloca (100);
                        break;
                    }
        case floating:
        if (all)
            {
                if (cs->default_value != 0
                        && *(double *) cs->value_ptr
                        == *(double *) cs->default_value))
                    break;
                else if (cs->noarg_value != 0
                        && *(double *) cs->value_ptr ==
                        *(double *) cs->noarg_value)
                    ADD_FLAG ("", 0); /* Optional value omitted; see below. */
                else
                    {
                        char *buf = alloca (100);
                        break;
                    }
sprintf (buf, "%g", *(double *) cs->value_ptr);
ADD_FLAG (buf, strlen (buf));
}
}
break;
#endif

case string:
  if (all)
  {
    p = *((char **)cs->value_ptr);
    if (p)
      ADD_FLAG (p, strlen (p));
  }
  break;

case filename:
case strlist:
  if (all)
  {
    struct stringlist *sl = *(struct stringlist **) cs->value_ptr;
    if (sl != 0)
    {
      unsigned int i;
      for (i = 0; i < sl->idx; ++i)
        ADD_FLAG (sl->list[i], strlen (sl->list[i]));
    }
  }
  break;

default:
  abort ();
}

#undef ADD_FLAG

/* Four more for the possible " -- ", plus variable references. */
flagslen += 4 + CSTRLEN (posixref) + 1 + CSTRLEN (evalref) + 1;

/* Construct the value in FLAGSTRING.
   We allocate enough space for a preceding dash and trailing null. */
flagstring = alloca (1 + flagslen + 1);
memset (flagstring, '\0', 1 + flagslen + 1);
p = flagstring;

/* Start with a dash, for MFLAGS. */
*p++ = '-';
/* Add simple options as a group. */
while (flags != 0 && !flags->arg && short_option (flags->cs->c))
{
    *p++ = flags->cs->c;
    flags = flags->next;
}

/* Now add more complex flags: ones with options and/or long names. */
while (flags)
{
    *p++ = ' '\n    *p++ = '-';

    /* Add the flag letter or name to the string. */
    if (short_option (flags->cs->c))
        *p++ = flags->cs->c;
    else
    {
        /* Long options require a double-dash. */
        *p++ = ':';
        strcpy (p, flags->cs->long_name);
        p += strlen (p);
    }
    else
    {
        /* An omitted optional argument has an ARG of "". */
        if (flags->arg && flags->arg[0] != '\0')
        {
            if (!short_option (flags->cs->c))
                /* Long options require '='. */
                *p++ = '=';
            p = quote_for_env (p, flags->arg);
        }
        flags = flags->next;
    }

    /* If no flags at all, get rid of the initial dash. */
    if (p == &flagstring[1])
    {
        flagstring[0] = '\0';
        p = flagstring;
    }

    /* Define MFLAGS before appending variable definitions. Omit an initial empty dash. Since MFLAGS is not parsed for flags, there is no reason to override any makefile redefinition. */
    define_variable_cname ("MFLAGS",
                              flagstring + (flagstring[0] == '-' && flagstring[1] == '=' ? 2 : 0),
                              o_env, 1);


/* Write a reference to -*-eval-flags-*-, which contains all the --eval
flag options. */
if (eval_strings)
{
    *p++ = ' ';
    memcpy (p, evalref, CSTRLEN (evalref));
    p += CSTRLEN (evalref);
}

if (all && command_variables)
{
    /* Write a reference to $(MAKEOVERRIDES), which contains all the
command-line variable definitions. Separate the variables from the
switches with a "--" arg. */
    strcpy (p, " -- ");
    p += 4;

    /* Copy in the string. */
    if (posix_pedantic)
    {
        memcpy (p, posixref, CSTRLEN (posixref));
        p += CSTRLEN (posixref);
    }
    else
    {
        memcpy (p, ref, CSTRLEN (ref));
        p += CSTRLEN (ref);
    }
}

/* If there is a leading dash, omit it. */
if (flagstring[0] == '-')
    ++flagstring;

/* This used to use o_env, but that lost when a makefile defined MAKEFLAGS.
Makefiles set MAKEFLAGS to add switches, but we still want to redefine
its value with the full set of switches. Then we used o_file, but that
lost when users added -e, causing a previous MAKEFLAGS env. var. to take
precedence over the new one. Of course, an override or command
definition will still take precedence. */
return define_variable_cname ("MAKEFLAGS", flagstring,
    env_overrides ? o_env_override : o_file, 1);

/* Print version information. */

static void
print_version (void)
{
    static int printed_version = 0;

    const char *precede = print_data_base_flag ? "# " : "";

    if (printed_version)
        /* Do it only once. */
        return;

    printf ("%sGNU Make %s\n", precede, version_string);

    if (!remote_description || *remote_description == '\0')
        printf (_("%sBuilt for %s\n"), precede, make_host);
    else
        printf (_("%sBuilt for %s (%s)\n"),
                precede, make_host, remote_description);

    /* Print this untranslated. The coding standards recommend translating the
     * (C) to the copyright symbol, but this string is going to change every
     * year, and none of the rest of it should be translated (including the
     * word "Copyright"), so it hardly seems worth it. */
    printf ("%sCopyright (C) 1988-2016 Free Software Foundation, Inc.\n", precede);

    printf ("%sLicense GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>\n%sthis is free software: you are free to change and redistribute it.\n%sthere is NO WARRANTY, to the extent permitted by law.\n", precede, precede, precede);

    printed_version = 1;

    /* Flush stdout so the user doesn't have to wait to see the
     * version information while make thinks about things. */
    fflush (stdout);
}

/* Print a bunch of information about this and that. */

static void
print_data_base (void)
{
    time_t when = time ((time_t *) 0);

    print_version ();

    printf ("\n# Make data base, printed on %s\n", ctime (&when));

}
print_variable_data_base();
print_dir_data_base();
print_rule_data_base();
print_file_data_base();
print_vpath_data_base();
strcache_print_stats("#");

when = time ((time_t *) 0);
printf (_("%n# Finished Make data base on %s\n"), ctime (&when));
}

static void
clean_jobserver (int status)
{

/* Sanity: have we written all our jobserver tokens back? If our
exit status is 2 that means some kind of syntax error; we might not
have written all our tokens so do that now. If tokens are left
after any other error code, that's bad. */

if (jobserver_enabled() && jobserver_tokens)
{
    if (status != 2)
        ON (error, NILF,
            "INTERNAL: Exiting with %u jobserver tokens (should be 0)!",
            jobserver_tokens);
    else
        /* Don't write back the "free" token */
        while (--jobserver_tokens)
            jobserver_release (0);
}

/* Sanity: If we're the master, were all the tokens written back? */

if (master_job_slots)
{
    /* We didn't write one for ourself, so start at 1. */
    unsigned int tokens = 1 + jobserver_acquire_all ();

    if (tokens != master_job_slots)
        ONN (error, NILF,
            "INTERNAL: Exiting with %u jobserver tokens available; should be %u!",
            tokens, master_job_slots);

    reset_jobserver (0);
}
}
/* Exit with STATUS, cleaning up as necessary. */

void
die (int status)
{
    static char dying = 0;

    if (!dying)
    {
        int err;

        dying = 1;

        if (print_version_flag)
            print_version ();

        /* Wait for children to die. */
        err = (status != 0);
        while (job_slots_used > 0)
            reap_children (1, err);

        /* Let the remote job module clean up its state. */
        remote_cleanup ();

        /* Remove the intermediate files. */
        remove_intermediates (0);

        if (print_data_base_flag)
            print_data_base ();

        if (verify_flag)
            verify_file_data_base ();

        clean_jobserver (status);

        if (output_context)
        {
            /* die() might be called in a recipe output context due to an
            $ \$(error ...) function. */
            output_close (output_context);

            if (output_context != &make_sync)
                output_close (&make_sync);

            OUTPUT_UNSET ();
        }
    }
/* Try to move back to the original directory. This is essential on MS-DOS (where there is really only one process), and on Unix it puts core files in the original directory instead of the -C directory. Must wait until after remove_intermediates(), or unlinks of relative pathnames fail. */
if (directory_before_chdir != 0)
{
    /* If it fails we don't care: shut up GCC. */
    int _x UNUSED;
    _x = chdir (directory_before_chdir);
}

exit (status);

1.258 libpam 1.3.1 r0
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1.259 makedumpfile 1.6.7 r0
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1.263 go-dbus

4.0.0+git5f6efc7ef2759c81b7ba876593971bfce311eab3 r0

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

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

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

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

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

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

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medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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That's all there is to it!

1.270 python-pretend 1.0.9 r0

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1.271 libgudev 233 r0

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

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

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

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

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

   c) You must cause the whole of the work to be licensed at no
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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*   your option) any later version.
*
#include "config.h"

#if HAVE_AFNETROM || HAVE_HWNETROM
#include <sys/types.h>
#include <sys/ioctl.h>
#include <sys/socket.h>
#include <net/if_arp.h>
#endif

#include <net/if_arp.h>
#include <sys/socket.h>
#include <net/if_arp.h>
#if (__GLIBC__ > 2) || (__GLIBC__ == 2 && __GLIBC_MINOR__ >= 1)
#include <netax25/ax25.h>
#else
#include <linux/ax25.h>
#endif

#endif

#include <stdlib.h>
#include <stdio.h>
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <string.h>
#include <termios.h>
#include <unistd.h>
#include "net-support.h"
#include "pathnames.h"
#include "intl.h"
#include "util.h"

static char netrom_errmsg[128];

extern struct aftype netrom_aftype;

static char *NETROM_print(unsigned char *ptr)
{
    static char buff[8];
    int i;

    for (i = 0; i < 6; i++) {
        buff[i] = ((ptr[i] & 0377) >> 1);
        if (buff[i] == ' ')
            buff[i] = '\0';
    }
    buff[6] = '\0';
    i = ((ptr[6] & 0x1E) >> 1);
    if (i != 0)
        sprintf(&buff[strlen(buff)], "-%d", i);
    return (buff);
}
/* Display an AX.25 socket address. */
static char *NETROM_sprint(struct sockaddr *sap, int numeric)
{
    char buf[64];
    if (sap->sa_family == 0xFFFF || sap->sa_family == 0)
        return safe_strncpy(buf, _("[NONE SET]"), sizeof(buf));
    return (NETROM_print(((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call));
}

static int NETROM_input(int type, char *bufp, struct sockaddr *sap)
{
    unsigned char *ptr;
    char *orig, c;
    unsigned int i;
    sap->sa_family = netrom_aftype.af;
    ptr = ((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call;

    /* First, scan and convert the basic callsign. */
    orig = bufp;
    i = 0;
    while ((*bufp != '\0') && (*bufp != '-') && (i < 6)) {
        c = *bufp++;
        if (islower(c))
            c = toupper(c);
        if (!(isupper(c) || isdigit(c))) {
            safe_strncpy(netrom_errmsg, _("Invalid callsign"), sizeof(netrom_errmsg));
            #ifdef DEBUG
            fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
            #endif
            errno = EINVAL;
            return (-1);
        }
        *ptr++ = (unsigned char) ((c << 1) & 0xFE);
        i++;
    }

    /* Callsign too long? */
    if ((i == 6) && (*bufp != '-') && (*bufp != '\0')) {
        safe_strncpy(netrom_errmsg, _("Callsign too long"), sizeof(netrom_errmsg));
        #ifdef DEBUG
        fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
        #endif
        errno = E2BIG;
        return (-1);
    }

    *ptr++ = (unsigned char) ((c << 1) & 0xFE);
    i++;

    /* */
}

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*/ Nope, fill out the address bytes with blanks. */
while (i++ < sizeof(ax25_address) - 1) {
  *ptr++ = (unsigned char) ((i << 1) & 0xFE);
}

/* See if we need to add an SSID field. */
if (*bufp == '-') {
  i = atoi(++bufp);
  *ptr = (unsigned char) ((i << 1) & 0xFE);
} else {
  *ptr = (unsigned char) '\0';
}

/* All done. */
#ifdef DEBUG
  fprintf(stderr, "netrom_input(%s): ", orig);
  for (i = 0; i < sizeof(ax25_address); i++)
    fprintf(stderr, "%02X ", sap->sa_data[i] & 0377);
  fprintf(stderr, "\n");
#endif
  return (0);
}

/* Display an error message. */
static void NETROM_herror(char *text)
{
  if (text == NULL)
    fprintf(stderr, "%s\n", netrom_errmsg);
  else
    fprintf(stderr, "%s: %s\n", text, netrom_errmsg);
}

static int NETROM_hinput(char *bufp, struct sockaddr *sap)
{
  if (NETROM_input(0, bufp, sap) < 0)
    return (-1);
  sap->sa_family = ARPHRD_NETROM;
  return (0);
}
#endif

/* Set the line discipline of a terminal line. */
static int KISS_set_disc(int fd, int disc)
{
fprintf(stderr, "KISS_set_disc(%d): %s\n", disc, strerror(errno));
return (-errno);
}
return (0);
}

/* Start the KISS encapsulation on the file descriptor. */
static int KISS_init(int fd)
{
    if (KISS_set_disc(fd, N_SLIP) < 0)
        return (-1);
    if (ioctl(fd, SIOCSIFENCAP, 4) < 0)
        return (-1);
    return (0);
}
#endif

struct hwtype netrom_hwtype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ ARPHRD_NETROM, 7,
    NETROM_print, NETROM_hinput, NULL, 0
};

struct aftype netrom_aftype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ AF_NETROM, 7,
    NETROM_print, NETROM_sprint, NETROM_input, NETROM_herror,
    NULL, NULL, NULL,
    -1,
    "/proc/net/nr"
};
#endif/* HAVE_AFNETROM */

1.274 sfdisk 2.25.2 r0

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

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

------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

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

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux

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

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

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

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
<removed>2 4096 20479 16384 8M a5 FreeBSD

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

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
c 4096 20479   16384    8M unused       0     0   0
d  0 16064   16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

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

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>: 2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
a 4096 6144  2049  1M 4.2BSD       0     0   0
c 4096 20479  16384    8M unused       0     0   0
d  0 16064  16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition  a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V

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1.275 tcp-wrappers 7.6 r10

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1.278 ntp 4.2.8p13 r0

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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-opt;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=`\`sed -e 's/.*/\[\]'/ -e 's/\].*/\]' < ../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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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1] Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2] Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3] Bernd Altmeier <altmeier@atlssoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6] Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Pieter Brooks <Pieter.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12] Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13] Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jahay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPV4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> nptrace utility
40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
   space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unixpress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
   makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajjit@ee.udel.edu> IP multicast/anycast support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase,
   Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing
   (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
   TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
   validated HTML documents according to the HTML DTD

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atsoft.de
4. mailto:%20vbais@mailman1.intel.co
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
8. mailto:%20greg.brackley@bigfoot.com
9. mailto:%20Marc.Brett@westgeo.com
10. mailto:%20Piete.Brooks@cl.cam.ac.uk
11. mailto:%20nelson@bolyard.me
12. mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto:%20reg@dwf.com
14. mailto:%20clift@ml.csiro.au
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16. mailto:%20Sven_Dietrich@trimble.COM
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34. mailto:dkatz@cisco.com
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56. mailto:harlan@pfcs.com
57. mailto:ken@sdd.hp.com
58. mailto:ajit@ee.udel.edu
59. mailto:tsuruoka@nc.fukuoka-u.ac.jp
60. mailto:brian.utterback@oracle.com
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<ol>
<li><a href="mailto:%20takao_abe@xurb.jp">Takao Abe</a> Clock driver for JJY receivers</li>
<li><a href="mailto:%20mark_andrews@isc.org">Mark Andrews</a> Leitch atomic clock controller</li>
</ol>
Open Source Used In XESDK 17.4-4.0.1

- Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
- Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- Michael Barone <michael.barone@lmco.com> GPSVME fixes
- 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.
- Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
- Michael Barone <michael,barone@lmco.com> GPSVME fixes
- Karl Berry <karl@owl.HQ.ileaf.com> sys to file
- Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
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Frank Kardel <a href="mailto:Frank Kardel@ntp.org">Frank Kardel@ntp.org</a> <a href="http://www4.informatik.uni-erlangen.de/~kardel">Frank Kardel</a> <a href="mailto:Frank Kardel%20at%20ntp%20dot%20org">Frank Kardel (at) ntp (dot) org</a> <a href="http://www4.informatik.uni-erlangen.de/~kardel">Frank Kardel</a>  

PARSE <a href="mailto:parsec-specification@ntp.org">PARSE</a> <a href="mailto:parsec-specification@ntp.org">PARSE</a>  

<GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</GENERIC>  

Johannes Maximilian Kuehn <a href="mailto:kuehn@ntp.org">Johannes Maximilian Kuehn</a>  

Rewrote <tt>snntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>  

William L. Jones <a href="mailto:jones@hermes.chpc.utaex.edu">William L. Jones</a>  

RS/6000 AIX modifications, HPUX modifications  

Dave Katz <a href="mailto:katz@cisco.com">Dave Katz</a>  

Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>  

Craig Leres <a href="mailto:leres@ee.lbl.gov">Craig Leres</a>  

4.4BSD port, ppsclock, Magnavox GPS clock drivers  

George Lindholm <a href="mailto:lindholm@ucs.ubc.ca">George Lindholm</a>  

Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>  

SunOS 5.1 port  

Louis A. Mamakos <a href="mailto:mamakos@ni.umd.edu">Louis A. Mamakos</a>  

MD5-based authentication  

Lars H. Mathiesen <a href="mailto:mathiesen@diku.dk">Lars H. Mathiesen</a>  

adaptation of foundation code for Version 3 as specified in RFC-1305  

Danny Mayer <a href="mailto:mayer@ntp.org">Danny Mayer</a>  

Network I/O, Windows Port, Code Maintenance  

David L. Mills <a href="mailto:mills@udel.edu">David L. Mills</a>  

Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36  

Wolfgang Moeller <a href="mailto:moeller@gwdgv1.dnet.gwdg.de">Wolfgang Moeller</a>  

VMS port  

Jeffrey Mogul <a href="mailto:mogul@pa.dec.com">Jeffrey Mogul</a>  

ntptrace utility  

Tom Moore <a href="mailto:moore@fievel.daytonoh.nrc.com">Tom Moore</a>  

i386 svr4 port  

Kamal A Mostafa <a href="mailto:kamal@whence.com">Kamal A Mostafa</a>  

SCO OpenServer port  

Derek Mulcahy <a href="mailto:derek@toybox.demon.co.uk">Derek Mulcahy</a>  

and <a href="mailto:md@hd.org">Damon Hart-Davis</a>  

ARCRON MSF clock driver  

Rob Neal <a href="mailto:neal@ntp.org">Rob Neal</a>  

Bancomm refclock and config/parse code maintenance  

Rainer Pruy <a href="mailto:pruy@informatik.uni-erlangen.de">Rainer Pruy</a>  

Rainer Pruy@informatik.uni-erlangen.de  

monitoring/trap scripts, statistics file handling  

Dirce Richards <a href="mailto:dirce@zk3.dec.com">Dirce Richards</a>  

Digital UNIX V4.0 port  

Wilfredo S&uuml;ace<br>nchez <a href="mailto:wsanchez@apple.com">Wilfredo S&uuml;ace<br>nchez</a>  

added support for NetInfo  

Nick Sayer <a href="mailto:sayer@quack.kfu.com">Nick Sayer</a>  

SunOS streams modules  

Jack Sasportas <a href="mailto:sasportas@innovativeinternet.com">Jack Sasportas</a>  

Saved a Lot of space on the stuff in the html/pic/ subdirectory  

Ray Schnitzler <a href="mailto:schnitz@unipress.com">Ray Schnitzler</a>  

Unixware1 port  

Michael Shields <a href="mailto:shields@tembel.org">Michael Shields</a>  

USNO clock driver  

Jeff Steinman <a href="mailto:steinman@pebbles.jpl.nasa.gov">Jeff Steinman</a>  

Datum PTS clock driver  

== Open Source Used In XESDK 17.4-4.0.1.1 ==
<li><a href="mailto:harlan@pfcs.com">Harlan Stenn <harlan@pfcs.com></a> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)</li>
<li><a href="mailto:ken@sdd.hp.com">Kenneth Stone <ken@sdd.hp.com></a> HP-UX port</li>
<li><a href="mailto:ajit@ee.udel.edu">Ajit Thyagarajan <ajit@ee.udel.edu></a> IP multicast/anycast support</li>
<li><a href="mailto:tsuruoka@nc.fukuoka-u.ac.jp">Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp></a> TRAK clock driver</li>
<li><a href="mailto:brian.utterback@oracle.com">Brian Utterback <brian.utterback@oracle.com></a> General codebase, Solaris issues</li>
<li><a href="mailto:loganaden@gmail.com">Loganaden Velvindron <loganaden@gmail.com></a> Sandboxing (libseccomp) support</li>
<li><a href="mailto:vixie@vix.com">Paul A Vixie <vixie@vix.com></a> TrueTime GPS driver, generic TrueTime clock driver</li>
<li><a href="mailto:Ulrich.Windl@rz.uni-regensburg.de">Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de></a> corrected and validated HTML documents according to the HTML DTD</li>

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1.290 xinetd 2.3.15 r2

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1.291 python-enum 1.1.6 r0
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1.292 libarchive 3.4.0 r0

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1.293 which 2.21 r3

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

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For an executable, the required form of the "work that uses the
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1.300 python3-zipp 0.6.0 r0
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1.301 util-macros 1.19.2 r0
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1.302 cairo 1.16.0 r0

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1.308 bc 1.07.1 r0

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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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<thead>
<tr>
<th>Release</th>
<th>Derived</th>
<th>Year</th>
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<th>GPL-</th>
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0.9.0 thru 1.2       1991-1995   CWI        yes
1.3 thru 1.5.2      1.2       1995-1999   CNRI       yes
1.6                 1.5.2     2000        CNRI       no
2.0                 1.6       2000        BeOpen.com no
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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009 :

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.
1.319 libusb 1.0.22 r0

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1.322 python-requests 2.23.0 r0

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.356 lm-sensors 3.5.0 r0
1.356.1 Available under license:
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
Many improvements to the libsensors configuration file scanner.
* Jean Delvare
New libsensors API, and migration of sensors and sensord thereto.
Many optimizations in libsensors and sensors.
Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

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1.357 vim 8.1.1518 r0

1.358 python3-pyyaml 5.3.1 r0

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1.359 python-pyudev 0.21.0 r0

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1.362 gnulib 2018-03-07.03 r0

1.362.1 Available under license:

Description:
Concatenate two arbitrary file names.

Files:
lib/filenamecat.h
lib/filenamecat-lgpl.c
m4/filenamecat.m4

Depends-on:
dirname-lgpl

configure.ac:
gl_FILE_NAME_CONCAT_LGPL

Makefile.am:
lib_SOURCES += filenamecat-lgpl.c

Include:
"filenamecat.h"

License:
LGPLv2+

Maintainer:
Jim Meyering
Description:
Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:
doc/relocatable.texi
lib/relocatable.h
lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4

Depends-on:
strdup

configure.ac:
gl_RELOCATABLE_LIBRARY
if test $RELOCATABLE = yes; then
    AC_LIBOBJ([relocatable])
fi

Makefile.am:
DEFS += -DNO_XMALLOC

Include:
"relocatable.h"

License:
LGPLv2+

Maintainer:
Ben Pfaff

Description:
Locating a program in PATH (LGPLed version).

Files:
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:
stdbool
strdup
concat-filename
unistd

configure.ac:
gl_FINDPROG
gl_MODULE_INDICATOR([findprog-lgpl])

Makefile.am:
lib_SOURCES += findprog.h findprog.c

Include:
"findprog.h"
License:
LGPLv2+

Maintainer:
all

Files:
tests/test-canonicalize-lgpl.c
tests/signature.h
tests/null-ptr.h
tests/macros.h

Depends-on:
ignore-value
same_inode
symlink

configure.ac:

Makefile.am:
TESTS += test-canonicalize-lgpl
cHECK_PROGRAMS += test-canonicalize-lgpl

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lib/stripslash.c
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Depends-on:
dosname
double-slash-root
malloc-posix
stdbool

configure.ac:
gl_DIRNAME_LGPL

Makefile.am:
lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

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Files:
doc/fdl.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
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Maintainer:
Files:
tests/test-update-copyright.sh

Depends-on:

configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])

Makefile.am:
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TESTS_ENVIRONMENT += abs_aux_dir=$exec_prefix/$(abs_aux_dir)
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Description:
realpath, canonicalize_file_name: Provide canonical absolute file name

Files:
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4

Depends-on:
extensions
stdlib
ncrash
alloca-opt [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
ermo [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
lstat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
malloc [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
memmove [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
pathmax [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
readlink [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
sys_stat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]

configure.ac:

gl_CANONICALIZE_LGPL
if test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
AC_LIBOBJ([canonicalize-lgpl])
fi
gl_MODULE_INDICATOR([canonicalize-lgpl])
gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
gl_STDLIB_MODULE_INDICATOR([realpath])

Makefile.am:
Include:

```c
<stdlib.h>
```

License:
LGPLv2+

Maintainer:
all

Description:
Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:
lib/getcwd-lgpl.c
m4/getcwd.m4

Depends-on:
unistd
strdup [test $REPLACE_GETCWD = 1]

configure.ac:
```c
gl_FUNC_GETCWD_LGPL
if test $REPLACE_GETCWD = 1; then
  AC_LIBOBJ([getcwd-lgpl])
fi
gl_UNISTD_MODULE_INDICATOR([getcwd])
```

Makefile.am:

Include:

```c
<unistd.h>
```

License:
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Maintainer:
Eric Blake

Legal Issues about Contributing Code to GNU
last updated 14 July 2015

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* Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we can still use the program in GNU.

Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.

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1.363 python-six 1.14.0 r0

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1.364 python-pycparser 2.19 r0
1.364.1 Available under license :
pycparser -- A C parser in Python

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1.365 libcgroup 0.41 r0
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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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1.369 yajl 2.1.0 r0
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1.374 google-test 1.8.1 r0

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1.376 keyutils 1.6 r0

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1.377 linux-kernel v4.14.136 2aa864629144

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

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M. Welsh, 6 July 1996

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1.379 util-linux 2.34 r0

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with subsection 6b.

d) Convey the object code by offering access from a designated
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From specdet@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: specdet@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-INS)
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey
"The lyf so short, the craft so long to lerne." - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
   id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
   id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
   id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.INS.CWRU.Edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi.  I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0.  Thanks.

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

It should serve as a pretty good example of how to get carried away.  :-)
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id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
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id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

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(Too late to actually discuss the thing, at least for this edition).
-------
1.389 python 2.7.18 r0

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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1.392 gmp 6.1.2 r0
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That's all there is to it!
1.394 sysklogd 1.5.1 r0

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Version 2, June 1991

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1.395 tipc-utils

2.2.0+gitAUTOINC+7ab2211b87 r0

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 * include/uapi/linux/tipc.h: Header for TIPC socket interface
 *
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<one line to give the program's name and a brief idea of what it does.>
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This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the 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, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

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

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

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

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

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

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

1.398 cracklib 2.9.5 r0
1.398.1 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.=20

-- Nathan
=20
> -----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 th=
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictate to application writes what license they should be using. =
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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

=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 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> =20
> 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
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> =20
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> not
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> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact 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 ESMTP id I91Gxptr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
    Received: [82.68.43.14] (helo=[192.168.1.31])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 1i0C5X-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
    Mime-Version: 1.0 (Apple Message framework v752.2)
    In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
    References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
    Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
    Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
    Content-Transfer-Encoding: 7bit
    From: Alec Muffett <alecm@crypticide.com>
    Subject: Re: cracklib license
    Date: Mon, 1 Oct 2007 17:59:46 +0100
    To: Nathan Neulinger <nneul@neulinger.org>
    X-Mailer: Apple Mail (2.752.2)
    X-Originating-Rutherford-IP: [82.68.43.14]
    Return-Path: alecm@crypticide.com
    X-Originating-IP: [82.68.43.14]
    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

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

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

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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

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

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

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

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

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

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

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

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

GNU LESSER GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.401 xz 5.2.4 r0
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