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Text Part Number: 78EE117C99-1129379231
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   1.333.1 Available under license
1.334 libidn 2.0.4 r0
   1.334.1 Available under license
1.335 lzo 2.10 r0
   1.335.1 Available under license
1.336 libcap-ng 0.7.9 r0
   1.336.1 Available under license
1.337 tipcconfig 2.0.6 r0
1.338 python-pyasn1 0.4.4 r0
   1.338.1 Available under license
1.339 coreutils 8.30 r0
   1.339.1 Available under license
1.340 pcsc-lite 1.8.22 r0
   1.340.1 Available under license
1.341 file 5.34 r0
   1.341.1 Available under license
1.342 sqlite 3.23.1 r0
   1.342.1 Available under license
1.343 libxml 2.9.8 r0
   1.343.1 Available under license
1.344 kernel-devsrc 1.0 r0
1.345 python-pycparser 2.18 r0
   1.345.1 Available under license
1.346 libxslt 1.1.32 r0
   1.346.1 Available under license
1.347 notary 0.4.2 r0
   1.347.1 Available under license
1.348 dosfs-tools 4.1 r0
   1.348.1 Available under license
1.349 python3-gevent 1.2.2 r0
   1.349.1 Available under license
1.350 tftp-hpa 5.2 r0
   1.350.1 Available under license
1.351 mdadm 4.0 r0
   1.351.1 Available under license
1.352 go-systemd 4 r0
   1.352.1 Available under license
1.353 liburcu 0.10.1 r0
   1.353.1 Available under license
1.354 containerd-opencontainers v1.0.3 r0
   1.354.1 Available under license
1.355 stunserver 1.2.15 r0
   1.355.1 Available under license
1.356 selinux-python 2.8 r0
   1.356.1 Available under license

1.1 thin-provisioning-tools 0.7.6 r0

1.2 cracklib 2.9.5 r0
1.2.1 Available under license:

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Version 2.1, February 1999

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^L

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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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

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

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
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=20

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

----Original Message-----
From: cracklib-devel-bounces@li...
[mailto:cracklib-devel-bounces@li...] On Behalf Of
Mike Frysinger
Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

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

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

the original license (before moving to sourceforge -- aka, 2.7) was not=
GPL-2 ... it was a modified artistic license ... i didnt 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 isnt the place of =
a=20
library to dictact 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

-----------------------------------------------
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
>
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike
Re: [Cracklib-devel] cracklib license  
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57  
> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.  

I am sympathetic. Guys, what do you reckon?  

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

-a  

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

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

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

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

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

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

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanim-ipv5.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 191Gxptr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1IcOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> --------------------
> Forwarded message
> From: Neulinger, Nathan <nneul@umr.edu>
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

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

Happy now? :-)

-a

1.3 systemd-conf 1.0 r0

1.4 go-mux git r0

1.4.1 Available under license:

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1.5 iproute 4.13.0 r0

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Version 2, June 1991

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1.6 diffutils 3.6 r0
1.6.1 Available under license:

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Version 2.1, February 1999
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1.10 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
1bebf87248e05d6e4e62b749dca65d02 bsd.img
Set 2nd partition type
2d8e8d5f1a88a045db233418dd73fbe 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
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout---------
Welcome to fdisk <removed>.

Open Source Used In Cisco ASR 900 Route Switch Processor 17.6.1 109
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):

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1.11 initscripts 1.0 r155

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index 0000000..d511905
--- /dev/null
+++ b/COPYING
@@ -0,0 +1,339 @@
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+
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1.19 go-runtime 1.10.3 r0

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

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1.23 gflags 2.2.0 r0
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1.24 bash 4.2 r6

1.24.1 Available under license:

From specedt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: specedt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
    id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from specedt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
    id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from specedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <specedt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
    "ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~specedt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aai3001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May  9 10:39:51 1995
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@gnu.ai.mit.edu Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@gnu.ai.mit.edu
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
    id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.ins.cwru.edu>)
    Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
    id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
    Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
    id AA27213; Thu, 25 May 95 11:18:25 CDT
    Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
    Message-Id: <9505251618.AA16031@tepui.cli.com>
    From: friedman@gnu.ai.mit.edu (Noah Friedman)
    To: chet@po.cwru.edu
    Subject: Bash scripts
    Reply-To: friedman@gnu.ai.mit.edu
    In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
>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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// 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"`
}

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copyright = {
  date = "1992-2017";
  owner = "The University of Delaware and Network Time Foundation";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type = ntp;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `\n  eval VERSION=`\n    sed -e 's/\.*\[[^\]]*\]/\1/ ' < ../sntp/m4/version.m4\n  \[
    -z "$\{VERSION\}"
  \] && echo "Cannot determine VERSION" && kill -TERM $AG_pid\n  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 snntp/include/version.texi .
 */
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</head>
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</pre>
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<pre>
The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

- Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
- Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
- 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.
Magnavox GPS clock driver

MSF clock driver, Trimble PARSE support

Nelson Bolyard update and complete broadcast and crypto features in snntp

Jean-Francois Boudreault IPv6 support

Reg Clemens Oncore driver (Current maintainer)

Steve Clift OMEGA clock driver

Casey Crellin vxWorks (Tornado) port and help with target configuration

Sven Dietrich Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.

John A. Dundas III Apple A/UX port

Torsten Duwe Linux port

Dennis Ferguson foundation code for NTP Version 2 as specified in RFC-1119

John Hay IPv6 support and testing

Dave Hart General maintenance, Windows port interpolation rewrite

Claas Hilbrecht NeoClock4X clock driver

Glenn Hollinger GOES clock driver

Mike Iglesias DEC Alpha port

Jim Jagielski A/UX port

Jeff Johnson massive prototyping overhaul

Hans Lambermont or ntpsweep

Poul-Henning Kamp Oncore driver (Original author)

Frank Kardel (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

Johannes Maximilian Kuehn Rewrote to comply with NTPv4 specification

William L. Jones RS/6000 AIX modifications, HPUX modifications

Dave Katz RS/6000 AIX port

Craig Leres 4.4BSD port, ppsclock, Magnavox GPS clock driver
George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port

Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication

Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305

Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance

David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36

Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port

Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility

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Kamal A Mostafa <kamal@whence.com> SCO OpenServer port

Derek Mulcahy <derek@toybox.demon.co.uk> and Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver

Rob Neal <Neal@ntp.org> Bancomm refclock and config/parse code maintenance

Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port

Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo

Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

Ray Schnitzler <schnitz@unipress.com> Unixware1 port

Michael Shields <shields@tembel.org> USNO clock driver

Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

Kenneth Stone <ken@sdd.hp.com> HP-UX port

Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support

Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver

Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues

Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver

Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
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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]Piete Brooks <Piete.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@scc.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 <jhay@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> 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)
(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
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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
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code for Version 3 as specified in RFC-1305
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@gwdg1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace 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 in the stuff in the html/pic/ subdirectory
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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 <ajit@ee.udel.edu> IP multicast/anycast support
55. [59]Tomooaki 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

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*/

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS                                           
  uv__io_t event_watcher;                                                     

#define UV_IO_PRIVATE_PLATFORM_FIELDS                                         
  int rcount;                                                                 
  int wcount;                                                                 

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

Files: /* UV_BSD */

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1.36 liberation-fonts 2.00.1 r0

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1.37 libxml-parser-perl 2.44 r0

1.38 acl 2.2.52 r0
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1.39 python-gevent 1.0b1 r0

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1.40 grep 3.1 r0
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* Part No: 816-1331-11
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Network Working Group  H. Krawczyk
HMAC: Keyed-Hashing for Message Authentication

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src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
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Version 2, June 1991

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.56 pciutils 3.6.2 r0

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While using oe-core toolchain to strip grub module `all_video.mod`,
it stripped symbol table:

```
root@localhost:~# objdump -t all_video.mod

all_video.mod:     file format elf64-x86-64
SYMBOL TABLE:
no symbols
```

It caused grub to load module all_video failed.
```
grub> insmod all_video
error: no symbol table.
```

Tweak strip option to keep symbol .module_license could workaround
the issue.
```
root@localhost:~# objdump -t all_video.mod

all_video.mod:     file format elf64-x86-64
SYMBOL TABLE:

0000000000000000 l    d  .text  0000000000000000 .text
0000000000000000 l    d  .data  0000000000000000 .data
0000000000000000 l    d  .module_license  0000000000000000 .module_license
0000000000000000 l    d  .bss  0000000000000000 .bss
0000000000000000 l    d  .moddeps  0000000000000000 .moddeps
0000000000000000 l    d  .modname  0000000000000000 .modname
```
Signed-off-by: Hongxu Jia <hongxu.jia@windriver.com>

Index: grub-2.02/grub-core/genmod.sh.in
===================================================================
--- grub-2.02.orig/grub-core/genmod.sh.in
+++ grub-2.02/grub-core/genmod.sh.in
@@ -56,7 +56,7 @@ if test x@TARGET_APPLE_LINKER@ != x1; th
     @TARGET_STRIP@ --strip-unneeded \n-  -K grub_mod_init -K grub_mod_fini \n-  --K _grub_mod_init -K _grub_mod_fini \n+  -K _grub_mod_init -K _grub_mod_fini -K .module_license \n    -R .note.gnu.gold-version -R .note.GNU-stack \n    -R .note -R .comment -R .ARM.exidx $tmpfile || exit 1
fi

1.60 kmod 25 r0

1.61 openssh 7.8p1+git r0
1.61.1 Available under license:
/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $*/

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRD NORM 0x0040
#define POLLNORMPOLLRD NORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

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* @version 3.0 (December 2000)
* 
* Optimised ANSI C code for the Rijndael cipher (now AES)
* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*/

#ifndef HAVE_SETRESGID
int	setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int	setresuid(uid_t, uid_t, uid_t);
#endif
/*
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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)	(*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w)	(!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)	((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)	(!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)	(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)	(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG	0x80
#define WCOREDUMP(w) 	((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
1.62 systemtap 4.0 r0

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On all platforms, Nmap is normally linked with:
- libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
  http://www.tcpdump.org/
- libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/
- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
  http://www.pcre.org/
- liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
  http://www.lua.org/
- OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
  http://www.openssl.org/
- LIBLINEAR. Used for IPv6 OS classification.
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/

On Windows only, Nmap uses:
- WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
  http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in
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Zenmap and Ndiff require:
- Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
  http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:
- GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.
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  http://www.cairographics.org/
- libgailutil: Accessibility support for GTK+.
- libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.
- zlib and bzip2: compression libraries.
- Expat: XML parser library.
  http://expat.sourceforge.net/
- fontconfig: font configuration library.
  http://www.fontconfig.org/
- FreeType: font rendering library.
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- SQLite.
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- PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.
  http://www.pygtk.org/
- PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:
- Various X.org libraries. These were built using MacPorts.
  http://www.x.org/ http://www.macports.org/

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

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Written by: Philip Hazel
Email local part: ph10
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However, linking a "work that uses the Library" with the Library
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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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That's all there is to it!

1.73 make 4.2.1 r0
1.73.1 Available under license:
/* Argument parsing and main program of GNU Make.
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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>
#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;
#endif
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
#include <unistd.h>
#endif

#ifndef STDC_HEADERS
# ifndef sun                    /* Sun has an incorrect decl in a header. */
void exit (int) __attribute__ ((noreturn));
#endif

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

#endif

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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
double max_load_average = -1.0;
double 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 = 't';

/* 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_("-b, -m                      Ignored for compatibility. \n"),
  N_("\n"),
  N_("\n"),
  N_("\n"),
-R, --no-built-in-variables Disable the built-in variable settings.
-N(\n-s, --silent, --quiet Don’t echo recipes.\n-N(\n-S, --no-keep-going, --stop\n    Turns off -k.\n-N(\n-t, --touch Touch targets instead of remaking them.\n-N(\n--trace Print tracing information.\n-N(\n-v, --version Print the version number of make and exit.\n-N(\n-w, --print-directory Print the current directory.\n-N(\n--no-print-directory Turn off -w, even if it was turned on implicitly.\n-N(\n-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE\n    Consider FILE to be infinitely new.\n-N(\n--warn-undefined-variables Warn when an undefined variable is referenced.\n-N(\n\n/* 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, 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-override" },
    { 'h', flag, &print_usage_flag, 0, 0, 0, 0, 0, "help" },
    { 'i', flag, &ignoreErrors_flag, 1, 1, 0, 0, 0, "ignore-errors" },
    { 'k', flag, &keep_going_flag, 1, 1, 0, 0, &defaultKeep_going_flag,
        "keep-going" },
    { 'L', flag, &checkSymlink_flag, 1, 1, 0, 0, 0, "check-symlink-times" },
    { 'm', ignore, 0, 0, 0, 0, 0, 0, 0 },
    { 'n', flag, &just_print_flag, 1, 1, 0, 0, 0, "just-print" },
    { 'p', flag, &printDataBase_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" },
    { 'R', flag, &no_builtin_variables_flag, 1, 1, 0, 0, 0, "no-builtin-variables" },
"no-built-in-variables" },
{ 's', flag, &silent_flag, 1, 1, 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" },
{ 'f', filename, &makefiles, 0, 0, 0, 0, 0, "file" },
{ 'I', filename, &include_directories, 1, 1, 0, 0, 
   "include-dir" },
{ 'j', positive_int, &arg_job_slots, 1, 1, 0, &inf_jobs, &default_job_slots, 
   "jobs" },
#endif
{ '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, "old-file" },
{ 'O', string, &output_sync_option, 1, 1, 0, "target", 0, "output-sync" },
{ 'W', filename, &new_files, 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, "jobserver-auth" },
{ CHAR_MAX+3, flag, &trace_flag, 1, 1, 0, 0, "trace" },
{ CHAR_MAX+4, flag, &inhibit_print_directory_flag, 1, 1, 0, 0, 
   "no-print-directory" },
{ CHAR_MAX+5, flag, &warn_undefined_variables_flag, 1, 1, 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' },
{ "recon", no_argument, 0, 'n' },
{ "makefile", required_argument, 0, 'f' },
};

/* List of goal targets. */
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;

/* Pointer to structure for the file .DEFAULT whose commands are used for any file that has none of its own. This is zero if the makefiles do not define .DEFAULT. */

struct file *default_file;

/* Nonzero if we have seen the magic `.POSIX` target. This turns on pedantic compliance with POSIX.2. */

int posix_pedantic;

/* Nonzero if we have seen the `.SECONDEXPANSION` target. This turns on secondary expansion of prerequisites. */

int second_expansion;

/* Nonzero if we have seen the `.ONESHELL` target. This causes the entire recipe to be handed to SHELL as a single string, potentially containing newlines. */

int one_shell;

/* One of OUTPUT_SYNC_* if the `--output-sync` option was given. This attempts to synchronize the output of parallel jobs such that the results of each job stay together. */

int output_sync = OUTPUT_SYNC_NONE;

/* Nonzero if the `--trace` option was given. */

int trace_flag = 0;

/* Nonzero if we have seen the `.NOTPARALLEL` target. This turns off parallel builds for this invocation of make. */

int not_parallel;

/* Nonzero if some rule detected clock skew; we keep track so (a) we only print one warning about it during the run, and (b) we can print a final warning at the end of the run. */

int clock_skew_detected;

/* Map of possible stop characters for searching strings. */
#define UCHAR_MAX 255

#define UCHAR_MAX 255
unsigned short stopchar_map[128] = {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. */

#if defined POSIX
sigset_t fatal_signal_set;
#else
#if defined HAVE_SIGSETMASK
int fatal_signal_mask;
#endif
#endif

#if !HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
# if !defined HAVE_SIGACTION
#  define bsd_signal (int sig, bsd_signal_ret_t func)
# else
typedef RETSIGTYPE (*bsd_signal_ret_t) (int);

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
#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 ();
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)’	’] = 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;
#endif
    for (i = 1; i <= UCHAR_MAX; ++i)
    {
        if (isspace (i) && 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')
{
    /* Nothing else but one or more ".", maybe plus slashes! */
    name = "./";
}

cp = strcache_add (name);

free (expanded);

return cp;

/* Toggle -d on receipt of SIGUSR1.  */

#ifdef SIGUSR1
static RETSIGTYPE
db_level = db_level ? DB_NONE : DB_BASIC;
db_signal_handler (int sig UNUSED)
{
    db_level = db_level ? DB_NONE : DB_BASIC;
}
#endif
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 == ',')
        ++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. */
</open-source-used-in-cisco-asr-900-route-switch-processor-17.6.1-page-918>
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];
#if defined 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\nExceptionCode = %lx\nExceptionFlags = %lx\nExceptionAddress = 0x%p\n"),
    prg, exrec->ExceptionCode, exrec->ExceptionFlags, exrec->ExceptionAddress);
    fprintf (stderr, errmsg);
    exit (255);
}
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 */
#ifdefined 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);

#ifdefined 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
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] == '\n'))
        && !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;
            }
            ep = ++ep;
        }
        /* 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;
#endif
#ifdef WINDOWS32
const char *unix_path = NULL;
const char *windows32_path = NULL;
#endif
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();

#ifndef 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;
}
/* 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);

#ifdef POSIX
sigemptyset (&fatal_signal_set);
#define ADD_SIG(sig) sigaddset (&fatal_signal_set, sig)
#else
#ifdef HAVE_SIGSETMASK
fatal_signal_mask = 0;
#define ADD_SIG(sig) fatal_signal_mask |= sigmask (sig)
#else
#define ADD_SIG(sig)
#endif
#endif

#define FATAL_SIG(sig) if (bsd_signal (sig, fatal_error_signal) == SIG_IGN) 
else ADD_SIG (sig);

#ifdef SIGHUP
FATAL_SIG (SIGHUP);
#endif
ifdef SIGQUIT
FATAL_SIG (SIGQUIT);
#endif
FATAL_SIG (SIGINT);
FATAL_SIG (SIGTERM);

ifdef __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

ifdef SIGDANGER
FATAL_SIG (SIGDANGER);
#endif
ifdef SIGXCPU
FATAL_SIG (SIGXCPU);
#endif
ifdef SIGXFSZ
FATAL_SIG (SIGXFSZ);
#endif

#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. */

ifdef 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
#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
#endif
#if defined 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
#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);

    /* 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);

    /* 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. */

#ifndef WINDOWS32
if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
ifdef HAVE_GETCWD
    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
#ifdef __MSDOS__
/* Make sure we will return to the initial directory, come what may. */
atexit (msdos_return_to_initial_directory);
#endif
/* 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"
    ifndef 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. */

#ifndef _AMIGA
{
  unsigned int i;

  for (i = 0; envp[i] != 0; ++i)
  {
    struct variable *v;
    const char *ep = envp[i];
    /* By default, export all variables culled from the environment. */
    enum variable_export export = v_export;
    unsigned int len;

    while (!STOP_SET (*ep, MAP_EQUALS))
      ++ep;

    /* If there's no equals sign it's a malformed environment. Ignore. */
    if (*ep == '\0')
      continue;

    #ifdef WINDOWS32
    if (!unix_path && strneq (envp[i], "PATH=", 5))
      unix_path = ep+1;
    else if (!strncmp (envp[i], "Path=", 5))
      {
        if (!windows32_path)
          windows32_path = ep+1;
        /* PATH gets defined after the loop exits. */
        continue;
      }
    #endif

    /* Length of the variable name, and skip the '='. */
    len = ep++ - envp[i];

    /* If this is MAKE_RESTARTS, check to see if the "already printed the enter statement" flag is set. */

#endif
if (len == 13 && strneq (envp[i], "MAKE_RESTARTS", 13))
{
    if (*ep == '-')
    {
        OUTPUT_TRACED ();
        ++ep;
    }
    restarts = (unsigned int) atoi (ep);
    export = v_noexport;
}

v = define_variable (envp[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;
}
}
#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. */
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. */
#ifdef 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;
}

#ifdef WINDOWS32
if (suspend_flag)
    {
        fprintf (stderr, "%s (pid = %ld)

If (suspend_flag)
    {
        fprintf (stderr, "%s (pid = %ld)

        fprintf (stderr, _("%s is suspending for 30 seconds...")), argv[0]);
        Sleep (30 * 1000);
        fprintf (stderr, _("done sleep(30). Continuing.
"));
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 ();
#endif

#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 WIN32

#ifndef 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));
#endif WIN32
#if defined (__MSDOS__) || defined (__EMX__)
if (strchr (argv[0], '\'))
{
    char *p;
    argv[0] = xstrdup (argv[0]);
    for (p = argv[0]; *p; p++)
        if (*p == '\')
            *p = '/';
}
#endif

/* 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] == '0' || argv[0][1] != ':'))
#endif
/* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
& !(strchr (argv[0], '/') != 0 || strchr (argv[0], '\') != 0)
#endif
/* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
& (argv[0][0] != '/') && (argv[0][0] == '0' || argv[0][1] != ':'))
#endif
/* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
& (argv[0][0] != '/') && (argv[0][0] == '0' || argv[0][1] != ':'))
#endif
/* 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;
    }
  }
  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 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;
    }
  }
  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', '${*-command-variables-*-}', 
    o_env, 1);
#endif VMS
    vms_export_dcl_symbol ('MAKEOVERRIDES', '${*-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];
    #ifdef 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
    #ifdef HAVE_GETCWD
        perror_with_name ("getcwd", "\n");
    #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  
        #else
        # ifdef P_tmpdir
        # define DEFAULT_TMPDIR  
        #else
        # define DEFAULT_TMPDIR  
        #endif
        #endif
        #define DEFAULT_TMPFILE  

        if (((tmpdir = getenv ("TMPDIR") == NULL || *tmpdir == '0')
            #ifdef (__MSDOS__) || defined (WINDOWS32) || defined (__EMX__)
                && ((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
    if (strchr ('\''/''', template[strlen (template) - 1]) == NULL)
        strcat (template, '/');
#else
    #ifndef VMS
        if (template[strlen (template) - 1] != '/')
            strcat (template, '/');
    #endif /* !VMS */
#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 */
#ifndef HAVE_WAIT_NOHANG || defined(MAKE_JOBERVER) /* 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 */
#endif
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)
  undefined_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);

                if (f == NULL || !f->double_colon)
                  break;
              }
          }
    }
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 *));
        aargv = m;
        memcpy (aargv, argv, argc * sizeof (char *));
        argv = aargv;
        argv[nargc] = xstrdup (concat (2, "-o", stdin_nm));
        argv[nargc] = 0;
        argv[nargc] = 0;
    }
else
    nargv = (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);
    putchar (\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="))
        {
            *p = alloca (40);
            sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
#endif
        }
    }
#else if (strneq (*p, out put_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);
#endif
#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 (argv);
    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"");
/* Update the goals. */

DB (DB_BASIC, (_("Updating goal targets...\n")));

{
  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.\n"));

  /* 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;
              }
            else
              long_options[i].has_arg = required_argument;
        }
break;
}
*p = '\0';
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;

    #ifdef 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] == '"'))
            {
                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] == '"')
                    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
/* 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))
{
    /* 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++ = '\';
        else if (ISBLANK (*in) || *in == '\n')
            *out++ = '\n';
        else
            *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 (30);
            printf (buf, "%f", *(double *) cs->value_ptr);
            ADD_FLAG (buf, strlen (buf));
          }
        break;
    #endif

{  
    char *buf = alloca (100);
    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++ = '\';
    *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);
    }

    /* 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),

/* 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);
}

/* 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 ();

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printf (_("\n# Make data base, printed on %s"), 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 ();
    }

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 ();
        }
    }
}
output_close (NULL);

/* 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);

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Version 3, 29 June 2007

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import optparse
import os.path
import subprocess
import sys

def PrintUsage():
    print("Usage: python checklicenses.py [--root <root>] [tocheck]
--root   Specifies the repository root. This defaults to "." relative
to the script file. This will be correct given the normal location
of the script in "<root>/tools".

--ignore-suppressions  Ignores path-specific license whitelist. Useful when
trying to remove a suppression/whitelist entry.

tocheck  Specifies the directory, relative to root, to check. This defaults
to "." so it checks everything.

Examples:
    python checklicenses.py
    python checklicenses.py --root ~/chromium/src third_party"")

WHITELISTED_LICENSES = [
    'BSD',
    'BSD (2 clause)',
    'BSD (2 clause) GPL (v2 or later)',
    'BSD (3 clause)',
    'GPL (v2 or later)']
'GPL (v3 or later) (with Bison parser exception)',
'TSC',
'TSC GPL (v2 or later)',
'LGPL (v2 or later)',
'LGPL (v2.1 or later)',
'MIT/X11 (BSD like)',
'Public domain',
'Public domain GPL (v2 or later)',
'Public domain MIT/X11 (BSD like)',
'zlib/libpng',
'zlib/libpng GPL (v2 or later)',

PATH_SPECIFIC_WHITELISTED_LICENSES = {
    'caputils/airpcap.h': [
        'BSD-3-Clause',
    ],
    'wsutil/strnatcmp.c': [
        'Zlib',
    ],
    'wsutil/strnatcmp.h': [
        'Zlib',
    ],
    'dtds': [
        'UNKNOWN',
    ],
    'diameter/dictionary.dtd': [
        'UNKNOWN',
    ],
    'wimaxasncp/dictionary.dtd': [
        'UNKNOWN',
    ],
    'doc/': [
        'UNKNOWN',
    ],
    'docbook/custom_layer_chm.xsl': [
        'UNKNOWN',
    ],
    'docbook/custom_layer_single_html.xsl': [
        'UNKNOWN',
    ],
    'docbook/ws.css': [
        'UNKNOWN'
    ],
    'fix': [
        'UNKNOWN',
    ],
}
'wsutil/g711.c': ['UNKNOWN'],
'packaging/macossx': ['UNKNOWN'],
'epan/except.c': ['UNKNOWN'],
'epan/except.h': ['UNKNOWN'],
'cmake/TestFileOffsetBits.c': ['UNKNOWN'],
'cmake/TestWindowsFSeek.c': ['UNKNOWN'],
# Generated header files by lex/yacc/whatever
'epan/dtd_grammar.h': ['UNKNOWN'],
'epan/dfilter/grammar.h': ['UNKNOWN'],
'epan/dfilter/grammar.c': ['UNKNOWN'],
'epan/dissectors/packet-dtn.c': ['GPL (v2 or later) GPL (v2 or later)'] # TODO: make licensecheck handle this better
'epan/dissectors/packet-ieee80211-radiotap-iter.': ['ISC GPL (v2)'] # Using ISC license only
'epan/dissectors/packet-ppi.c': ['BSD (3 clause) GPL (v2)'] # Using BSD (3 clause) license
'plugins/mate/mate_grammar.h': ['UNKNOWN'],
'version.h': ['UNKNOWN'],
# Special IDL license that appears to be compatible as far as I (not a
# lawyer) can tell. See
# https://www.wireshark.org/lists/wireshark-dev/201310/msg00234.html
'epan/dissectors/pidl/idl_types.h': ['UNKNOWN'],
# Written by Ronnie Sahlberg and correctly licensed, but cannot include
# a license header despite the file extension as they need to be
# parsed by the pidl tool
'epan/dissectors/pidl/mapi/request.cnf.c': ['UNKNOWN',
],
'epan/dissectors/pidl/mapi/response.cnf.c': ['UNKNOWN',
],
# The following tools are under incompatible licenses (mostly GPLv3 or
# GPLv3+), but this is OK since they are not actually linked into Wireshark
'tools/pidl': ['UNKNOWN',
],
'tools/lemon': ['UNKNOWN',
],
'tools/licensecheck.pl': ['GPL (v2)',
],
# Generated files for GTK pixbuf binary bundling
'ui/gtk/wireshark-gresources.h': ['UNKNOWN',
],
'ui/gtk/wireshark-gresources.c': ['UNKNOWN',
],
# The airpcap code is using BSD (3 clause)
'epan/crypt/dot11decrypt_interop.h': ['BSD (3 clause) GPL (v2)',
],
'epan/crypt/dot11decrypt_tkip.c': ['BSD (3 clause) GPL (v2)',
],
'epan/crypt/dot11decrypt_ws.h': ['BSD (3 clause) GPL (v2)',
],
'epan/crypt/wep-wpadefs.h': ['BSD (3 clause) GPL (v2)',
],
'epan/crypt/dot11decrypt_system.h': ['BSD (3 clause) GPL (v2)',
],
'epan/crypt/dot11decrypt_user.h': ['BSD (3 clause) GPL (v2)',
],
'epan/crypt/dot11decrypt_ccmp.c': [}
def check_licenses(options, args):
    # Figure out which directory we have to check.
    if len(args) == 0:
        # No directory to check specified, use the repository root.
        start_dir = options.base_directory
    elif len(args) == 1:
        # Directory specified. Start here. It's supposed to be relative to the
        # base directory.
        start_dir = os.path.abspath(os.path.join(options.base_directory, args[0]))
    else:
        # More than one argument, we don't handle this.
        PrintUsage()
        return 1

    print("Using base directory: %s" % options.base_directory)
    print("Checking: %s" % start_dir)
    print(""")

    licensecheck_path = os.path.abspath(os.path.join(options.base_directory,
         'tools',
         'licensecheck.pl'))

    licensecheck = subprocess.Popen([licensecheck_path,
         '-l', '150',
         '-r', start_dir],
         stdout=subprocess.PIPE,
         stderr=subprocess.PIPE)
    stdout, stderr = licensecheck.communicate()
    if sys.version_info[0] >= 3:
        stdout = stdout.decode('utf-8')
        stderr = stderr.decode('utf-8')
    if options.verbose:
print('----------- licensecheck stdout -----------
print(stdout)
print('--------- end licensecheck stdout ---------
if licensecheck.returncode != 0 or stderr:
  print('----------- licensecheck stderr -----------
print(stderr)
print('--------- end licensecheck stderr ---------
print("unFAILED\n")
return 1

success = True
exit_status = 0
for line in stdout.splitlines():
    filename, license = line.split(':', 1)
    filename = os.path.relpath(filename.strip(), options.base_directory)

    # All files in the build output directory are generated one way or another.
    # There's no need to check them.
    if filename.startswith('out/') or filename.startswith('sconsbuild/):
        continue

    # For now we're just interested in the license.
    license = license.replace("*No copyright*", ").strip()

    # Skip generated files.
    if 'GENERATED FILE' in license:
        continue

    if license in WHITELISTED_LICENSES:
        continue

    if not options.ignore_suppressions:
        found_path_specific = False
        for prefix in PATH_SPECIFIC_WHITELISTED_LICENSES:
            if (filename.startswith(prefix) and
                license in PATH_SPECIFIC_WHITELISTED_LICENSES[prefix]):
                found_path_specific = True
                break
        if found_path_specific:
            continue

    reason = "'%s' has non-whitelisted license '%%s'" % (filename, license)
    success = False
    print(reason)
    exit_status = 1

if success:
    print("unSUCCESS\n")
def main():
    default_root = os.path.abspath(os.path.join(os.path.dirname(__file__), '..', '.
    option_parser = optparse.OptionParser()
    option_parser.add_option('--root', default=default_root,
       dest='base_directory',
       help='Specifies the repository root. This defaults to "/./.
       relative to the script file, which will normally be the repository root."
    option_parser.add_option('-v', '--verbose', action='store_true',
       default=False, help='Print debug logging')
    option_parser.add_option('--ignore-suppressions',
       action='store_true',
       default=False,
       help='Ignore path-specific license whitelist.')
    options, args = option_parser.parse_args()
    return check_licenses(options, args)

if '__main__' == __name__:
    sys.exit(main())

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Source: http://www.wireshark.org/
Files-Excluded: debian

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Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
========================================================================

1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required
-------------------------------
Wireshark requires a number of additional programs to function.
Install the latest versions of the following programs before compiling:

The easiest way to install these is by using your operating system's ports or packages system. If you prefer to build from source, the programs can be found at the following sites:

glib 2.16 or later:
   ftp.gnome.org/pub/gnome/sources/glib/

pkgconfig:
   http://pkgconfig.freedesktop.org/releases/

python 2.5 or later:
If you want to use the Wireshark GUI, install one or both of these toolkits:

gtk+ 2.12 or later:
ftp.gnome.org:/pub/gnome/sources/gtk+

Qt 4.7 or later:
http://download.qt-project.org/official_releases/qt/

(These programs may require additional dependencies)

Additional programs can be used to enhance Wireshark's functionality. These can be found by typing ./configure --help or looking at the output at the end of running the configure script.

2. Compiling Wireshark
-----------------------

To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

./configure
make
make install

The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement
--------------------------------------------

In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

ls -l /dev/bpf*

You should see one or more bpf devices listed similar to this:

crw------- 1 root wheel 0, 90 Aug 10 21:05 /dev/bpf0
crw------- 1 root wheel 0, 91 Aug 10 21:05 /dev/bpf1
Packet-capturing programs will pick the first bpf device that’s not in use. Recent versions of most BSDs will create bpf devices as needed, so you don’t have to configure the number of devices that will be available.

4. Running wireshark as a non-root user

Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s). If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system’s documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

```plaintext
[localrules=10]
add path 'bpf*' {mode and permissions}
```

where "mode and permissions" can include clauses such as

- **mode** {octal permissions}
  - to set the permissions on the device (e.g., "mode 0660" to set the permissions to rw-rw-r--),
- **user** {user}
  - to set the user who owns the device, or
- **group** {group}
  - to set the group that owns the device and adding a line such as

```
devfs_system_ruleset=localrules
```

to `/etc/rc.conf`. For example, an `/etc/devfs.rules` file with

```plaintext
[localrules=10]
add path 'bpf*' mode 0660 group wheel
```
will grant read and write permissions on all BPF devices to all users in the "wheel" group.
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Description: Change location of license file in about dialog
Forwarded: not-needed
Author: Frederic Peters <fpeters@debian.org>

--- a/ui/gtk/about_dlg.c
+++ b/ui/gtk/about_dlg.c
@@ -522,7 +522,7 @@
 #if defined(_WIN32)
     absolute_path = get_datafile_path("COPYING.txt");
 #else
-    absolute_path = get_datafile_path("COPYING");
+    absolute_path = get_datafile_path("ABOUT.GPL");
 #endif
     page = text_page_new(absolute_path);

--- a/ui/qt/about_dialog.cpp
+++ b/ui/qt/about_dialog.cpp
@@ -335,7 +335,7 @@
 #if defined(_WIN32)
   f_license.setFileName(get_datafile_path("COPYING.txt"));
 #else
-   f_license.setFileName(get_datafile_path("COPYING"));
+   f_license.setFileName(get_datafile_path("ABOUT.GPL"));
 #endif
   f_license.open(QFile::ReadOnly | QFile::Text);

1.76 boost 1.68.0 r0
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   #include <boost/mpl/push_back.hpp>
   #include <boost/mpl/quote.hpp>
   #include <boost/mpl(transform.hpp>
   #include <boost/mpl/vector.hpp>
template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

using vector = mpl::vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() {

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>License &amp;#8212; Boost.HigherOrderFunctions 0.6 documentation</title>
<link rel="stylesheet" href="../../_static/boostbook.css" type="text/css" />
<link rel="stylesheet" href="../../_static/pygments.css" type="text/css" />
<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
  URL_ROOT: '../..',
  VERSION: '0.6',
  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
  HAS_SOURCE: true,
  SOURCELINK_SUFFIX: '.txt'
};
</script>
<script type="text/javascript" src="../../_static/jquery.js"></script>
<script type="text/javascript" src="../../_static/underscore.js"></script>
<script type="text/javascript" src="../../_static/doctools.js"></script>
<link rel="index" title="Index" href="../../genindex.html" />
<link rel="search" title="Search" href="../../search.html" />
<link rel="prev" title="Acknowledgements" href="acknowledgements.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"><img alt="Boost C++ Libraries" width="277" height="86" src="../static/boost.png" /></td>
</tr></table>
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//
//
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
    template <typename T>                                          \
    struct boost_intrusive_has_type_ ## TNAME                      \
    {                                                              \
        template <typename X>                                       \
        static char test(int, typename X::TNAME*);                  \
        \                                                \
        template <typename X>                                       \
        static int test(...);                                       \
        \                                                \
        static const bool value = (1 == sizeof(test<T>(0, 0)));     \
    };                                                             \

    template <typename T, typename DefaultType>                    \
    struct boost_intrusive_default_type_ ## TNAME                  \
    {                                                              \
        struct DefaultWrap { typedef DefaultType TNAME; };          \
        \                                                \
        typedef typename                                            \
            ::boost::intrusive::detail::if_c                         \
            < boost_intrusive_has_type_ ## TNAME<T>::value        \
            > boost_intrusive_default_type_detail_ ## TNAME<T>;

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#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
  typename INSTANTIATION_NS_PREFIX \
  boost_intrusive_default_type_##TNAME< T, TIMPL >::type \

//

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME) \
  INSTANTIATION_NS_PREFIX \
  boost_intrusive_has_type_##TNAME< T >::value \

//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME) \
  template <typename T, typename DefaultType> \
  struct boost_intrusive_eval_default_type_##TNAME \
  { \
    template <typename X> \
    static char test(int, typename X::TNAME*); \
    \
    template <typename X> \
    static int test(...); \
    \
    struct DefaultWrap \
    { \
      typedef typename DefaultType::type TNAME; \
    }; \
    \
    static const bool value = (1 == sizeof(test<T>(0, 0))); \
    \
    typedef typename \
    ::boost::intrusive::detail::eval_if_c \
    < value \
    , ::boost::intrusive::detail::identity<T> \
    , ::boost::intrusive::detail::identity<DefaultWrap> \
    >::type::TNAME type; \
  }; \

//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
  typename INSTANTIATION_NS_PREFIX \
  boost_intrusive_eval_default_type_##TNAME< T, TIMPL >::type \

//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND) \
  template <class T>
struct TRAITS_PREFIX##_bool\n{|\ntemplate<\nAdd>\nstruct two_or_three {\nyes_type _[2 + Add];\n}\ntemplate <\nclass U> static yes_type test(...);\ntemplate <\nclass U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\nstatic const std::size_t value = sizeof(test<T>(0));\n}\n\ntemplate <\nclass T>\nstruct TRAITS_PREFIX##_bool_is_true\n{|\nstatic const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\n}\n//
#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,\nFUNC_NAME) \ntemplate <typename U, typename Signature> \nclass TRAITS_NAME \n{|\nprivate:\ntemplate<Signature> struct helper;\ntemplate<typename T> \nstatic ::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*);\ntemplate<typename T> static ::intrusive::detail::no_type test(...);\npUBLIC:\nstatic const bool value = sizeof(test<U>(0)) == sizeof(::intrusive::detail::yes_type);\n|};\n//
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \ntemplate <typename Type> \nclass TRAITS_NAME \n{|\nstruct BaseMixin \n{|\n void FUNC_NAME();\n|};\nstruct Base : public Type, public BaseMixin { Base(); };\ntemplate <\ntype T, T t> class Helper{};\ntemplate <typename U> \nstatic ::intrusive::detail::no_type test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0);\nstatic ::intrusive::detail::yes_type test(...);\nstatic const bool value = sizeof(::intrusive::detail::yes_type) == sizeof(test((Base*)(0)));\n|};\n//
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, 
FUNC_NAME)\
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)\
\
template<typename Type, class>
struct TRAITS_NAME\
  : public TRAITS_NAME##_ignore_signature<Type>\
  {};
/
//
} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an `integral_constant`.

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

[endsect]

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var group__group_ext_mpl =
template <int i>
struct t {};

using vector = mpl_vector((1..input_size).to_a.map { [n] "t<#{n}>" }) %>

int main() {}
namespace boost {
namespace container {
namespace dtl {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;  
using boost::move_detail::identity;
using boost::move_detail::bool_;  
using boost::move_detail::true_;  
using boost::move_detail::false_;  
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;  
using boost::move_detail::true_;  
using boost::move_detail::false_;  
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;  
using boost::move_detail::or_;  
using boost::move_detail::not_;  
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;


template <class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    { return x.first;  }

    template<class T>
    type& operator()(T& x)
    { return const_cast<type&>(x.first);  }  
};
```cpp
template <class T, class=void>
struct is_transparent
{
    static const bool value = false;
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
    static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
: boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{};

//namespace dtl {
} //namespace container {
} //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
```
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#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifdef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
 # pragma once
#endif

#include <cstddef>

namespace boost {
 namespace interprocess {
   namespace ipcdetail {

template<typename T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T, val> type;
};

template<bool C_>
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template<typename B, typename T = void>
struct enable_if_c
{
    typedef T type;
};

template<typename T>
struct enable_if_c<false, T> {};

template<typename Cond, typename T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<typename Cond, typename T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
 , typename T2
 , typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>  
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<> 
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%a%09%ad', filename],
               universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates:
                dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            yield key, line
    return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^(?P<prefix>[^]*?)\(c\)?\s*?copyright\(c\)?\s+\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$', line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
        if len(prefix) != 1:
            print 'Not found:', filename
            return

prefix = list(prefix)[0]

print filename
new = iter(new_copyright(filename, names))

with open(filename, 'w') as f:
    for i, line in enumerate(content):
        if i in lines:
            for repl in new:
                print >>f, prefix + repl
        else:
            print >>f, line,
        pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

    for f in all_files():
        fix_copyright(f)

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[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
Adapters for Boost.MPL containers.

- **boost::mpl::integral_c< T, v >**
  - Adapter for IntegralConstants from the Boost.MPL.  
  - [More...](#details)
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agle@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) Boost Software License - Version 1.0 - August 17th, 2003

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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; };

struct state { };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>; 

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;
int main() { }

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  http://www.boost.org/LICENSE_1_0.txt
  /**

[mpl]
# MPL Support, <boost/mp11/mp11.hpp>
:toc:
:toc-title:
:idprefix:

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

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

/*
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  *
  */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
const fs::path& file;
split_path(const fs::path& r, const fs::path& f)
  : root(r), file(f){}
private:
  split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
  os << "<a href="" << (p.root / p.file).string() << "">" "" << p.file.string() << "</a>";
  return os;
}

std::string make_link_target(const std::string& s)
{
  // convert an arbitrary string into something suitable
  // for an <a> name:
  std::string result;
  for(unsigned i = 0; i < s.size(); ++i)
  {
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
  }
  return result;
}

void bcp_implementation::output_license_info()
{
  std::pair<const license_info*, int> licenses = get_licenses();

  std::map<int, license_data>::const_iterator i, j;
  i = m_license_data.begin();
  j = m_license_data.end();
  std::ofstream os(m_dest_path.string().c_str());
  if(!os)
  {
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output."
    std::runtime_error e(msg);
    boost::throw_exception(e);
  }
  os <<
    "<!DOCTYPE HTML PUBLIC ">
    "W3C//DTD HTML 4.0 Transitional//EN"
    "\n"
    "<html>
    "\n"
    "<head>
    "\n"
    "<title>
    "Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</title>
"</head>
"<body>
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</H1>\n"
"<H2>Contents</h2>\n"
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>\n";
if(!m_bsl_summary_mode)
    os << "<a href="#details">Licence Details</a>\n";
while(i != j)
{
    // title:
    os << "  <A href="#" << make_link_target(licenses.first[i->first].license_name)
    "</a>\n"; ++i;
}

os << "<a href="#files">Files with no recognised license</a>\n";
    "<a href="#authors">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
    os <<
    "Moving to the Boost Software License...
    "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>\n"
    "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>\n"
    "<a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
    "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>\n"
    "<a href="#copyright">Copyright Holder Information</a>\n";
}

os <<
"<a href="#depend">File Dependency Information</a>\n"
"</pre>";

//
// input Information:
//
if (m_scan_mode)
    os << "<p>The following files were scanned for boost dependencies:<br>
";
else
    os << "<p>The following Boost modules were checked:<br>
";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while (si != sj)
{
    os << *si << "<br>
    ++si;
}

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";

fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "\[[:blank:]\]*\#\[[:blank:]\]*define\[[:blank:]\]+BOOST_VERSION\[[:blank:]\]+(\d+)\);
boost::cmatch what;
if (boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</p><br>
}

i = m_license_data.begin();
j = m_license_data.end();
if (!m_bsl_summary_mode)
{
    // start with the summary:
    //
    os << "<a name="summary"></a><h2>Licence Summary</h2>
";
    while (i != j)
    {
        // title:
        os << "<h3>" << licenses.first[i->first].license_name << "</h3>\n"
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    }
// Copyright holders:
os << "<P>This license is used by " << i->second.authors.size() 
 << " authors and " << i->second.files.size() 
<< " files <a href="#" >> make_link_target(licenses.first[i->first].license_name) << ">
"">
(see details)</a>
" 
; 
+4i;
}
}
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
; 
while(i != j)
{
// title:
os << 
"<H3><A name="" " >> make_link_target(licenses.first[i->first].license_name) 
<< ""></A>" << licenses.first[i->first].license_name << "</H3>";
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
// Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:";
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
  os << *x << "<BR>";
  ++x;
}
os << "</P></BLOCKQUOTE>";
// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:";
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
  os << split_path(m_boost_path, *m) << "<BR>";
  ++m;
}
open source used in cisco asr 900 route switch processor 17.6.1

```cpp
os << "</p></BLOCKQUOTE>\n";
}
else
{
  os << "<p>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</p>\n";
  os << "<p>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</p>\n";
}
++license_index;
++i;
}
// Output list of files not found to be under license control:
//
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><p>\n"
  "<p>The following " << m_unknown_licenses.size() << " files had no recognisable license information:\n</p><BLOCKQUOTE><p>
; std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>\n";
  ++i2;
}
```
The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:<p>

if (!m_converted_to_bsl.empty())
{
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
  conv_iterator i = m_converted_to_bsl.begin(),
                    ie = m_converted_to_bsl.end();
  int file_num = 1;
  while (i != ie)
  {
    os << "<p>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
      "<br><tt><table border="1">\n        <tr>
          <td><pre>" << i->second.first << "</pre></td><n><td><pre>
          <pre></td><n</table>\n";

    ++i;
    ++file_num;
  }
}

// Output list of files that could be moved over to the Boost Software License

//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
"<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:<p>

i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>\n";
  ++i2;
}

os << "</p></BLOCKQUOTE>";

// Output list of files that can not be moved over to the Boost Software License

//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
"<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:<p>

i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>\n";
  ++i2;
}

os << "</p></BLOCKQUOTE>";
Authors we need for the BSL

Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

```
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "<br>"));
```

// output a table of copyright information:

```
std::map<std::string, std::set<fs::path, path_less>> ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    ++ad;
}
```

// output file dependency information:

```
std::map<fs::path, fs::path, path_less> dep, last_dep;
std::set<fs::path, path_less> fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
```

if in summary mode, just figure out the "bad" files and print those only:

```
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
}
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
  conv_iterator i = m_converted_to_bsl.begin(),
  ie = m_converted_to_bsl.end();
while(i != ie)
  {
    bad_paths.insert(i->first);
    ++i;
  }
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P><br>"
} while(fi != efi)
  {
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
      while(true)
        {
          os << " -> ";
          if(fs::exists(m_boost_path / dep->second))
            os << split_path(m_boost_path, dep->second);
          else if(fs::exists(dep->second))
            os << split_path(fs::path(), dep->second);
          else
            os << dep->second.string();
          if(seen_deps.find(dep->second) != seen_deps.end())
            {
              os << "<I>(Circular dependency!)</I>";
              break; // circular dependency!!!
            }
          seen_deps.insert(dep->second);
          last_dep = dep;
          dep = m_dependencies.find(dep->second);
          if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
            break;
        }
    os << "\n";
    ++fi;
  }
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>";
if(!os) {
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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
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(at your option) any later version.

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along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, 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) 19yy 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 Library General
Public License instead of this License.
1.79.1 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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<th>Derived from</th>
<th>Year</th>
<th>Owner</th>
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Footnotes:
(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

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

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

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tsu-notify.mbox - Notification sent per U.S. export regulations
copy/ - Copyright info & public-domain dedications

From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
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by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
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Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
     enc@nsa.gov,
     web_site@bis.doc.gov,
     pycrypto@lists.dlitz.net,
     PYTHON-CRYPTO@NIC.SURFNET.NL,
     dlitz@dlitz.net
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Content-Disposition: inline 
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X-Homepage: http://www.dlitz.net/ 
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/; 
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preference=unprotected 
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preference=signencrypt 
User-Agent: Mutt/1.5.16 (2007-06-11) 
X-Delivery-Agent: TMDA/1.1.9 (Jura) 
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net> 
X-DNSBL: 0  
Status: O  
Content-Length: 2182  
Lines: 65  

-----BEGIN PGP SIGNED MESSAGE-----

#  
# This is a proof of posting certificate from  
# stamper.itconsult.co.uk certifying that a user  
# claiming to be:-  
#    dlitz@dlitz.net  
# requested that this message be sent to:-  
#    crypt@bis.doc.gov  
#    enc@nsa.gov  
#    web_site@bis.doc.gov  
#    pycrypto@lists.dlitz.net  
#    PYTHON-CRYPTO@NIC.SURFNET.NL  
#    dlitz@dlitz.net
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

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

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W/pqSSIpkmwmbhPLhoOltTkNc0qKLAH1xqMGJNhO8AkrYZOyJksb0HsA==
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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===================================================================

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

--amk (www.amk.ca)

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

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

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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)
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    for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
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Delivered-To: m-dlitz-dlitz@dlitz.net
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    for <dlitz@dlitz.net>; Mon,  3 Aug 2009 10:14:05 -0600 (CST)
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    for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
    d=gmail.com; s=gamma;
    h=domainkey-signature:mime-version:received:in-reply-to:references
    :from:date:message-id:subject:to:content-type
    :content-transfer-encoding:
    bh=A0RHBf0TnrhibKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;
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=A0=20=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=A0=C2=...
Yes, that's fine. Good luck with the new release!

-p
--20
Paul Swartz
paulswartz@gmail.com
http://paulswartz.net/
AIM: z3penguin
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".)

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

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

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

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

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

--amk (www.amk.ca)

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

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

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

Regards,
- Dwayne

--

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
by
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.
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.
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's=20
GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20
The text in the current LICENSE file (quoted below) is not entirely clear=20
on the point of whether distributing modified versions is allowed. (It=20
says "distribute and use", but not "modify".)
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'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg.

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

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

--=20
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
    for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id D632D10111
    for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (vmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)
Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])
    by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105
    for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000
Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
    (envelope-sender <amk@amk.ca>)
    by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP
    for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000
Date: Sun, 23 Nov 2008 07:51:34 -0500
From: "A.M. Kuchling" <amk@amk.ca>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
Message-ID: <20081123125134.GA21239@amk.local>
Reply-To: amk@amk.ca
References: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAkko52IACgkQHGBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jjeSFFD5EZ
yloAn33aZjkkeyJaTbzEqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4
From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
    for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id D632D10111
    for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (vmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)
Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])
    by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105
    for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000
Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
    (envelope-sender <amk@amk.ca>)
    by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP
    for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000
Date: Sun, 23 Nov 2008 07:51:34 -0500
From: "A.M. Kuchling" <amk@amk.ca>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
Message-ID: <20081123125134.GA21239@amk.local>
Reply-To: amk@amk.ca
References: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Hi Jeethu,

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

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

The intention is that it be public domain.

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

You may.

--amk

Hi Jeethu,

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

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

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

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

--amk (www.amk.ca)

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

I understand that you have made contributions to PyCrypto. May I, on your
behalf, dedicate to the public domain all your contributions to PyCrypto,
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The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

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

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

> Hi Jeethu,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The
> text in the current LICENSE file (quoted below) is not entirely clear on the
> point of whether distributing modified versions is allowed. (It says
> "distribute and use", but not "modify").
> 
> ==============================================================
> Distribute and use freely; there are no restrictions on further
> dissemination and usage except those imposed by the laws of your
> country of residence. This software is provided "as is" without
> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> ==============================================================
> 
> Incorporating the code into commercial products is permitted; you do
> not have to make source available or contribute your changes back
> (though that would be nice).
> 
> --amk                                                    (www.amk.ca)
> 
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> Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
> Pointer, and Wim Lewis, and they have all approved the following text for
> their contributions.
> 
> I understand that you have made contributions to PyCrypto. May I, on your
> behalf, dedicate to the public domain all your contributions to PyCrypto,
> with the following notice?
> 
> ==============================================================
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
Hi Dwayne,<div>My contribution to pycrypto are very very minimal (The sha256 module, IIRC)."
</div><div>
</div><div>
</div><div>Jeethu Rao</div><div>
</div><div>PS: Apologies for the delay in my response.=A0</div>
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 (<a href="http://www.amk.ca" target="_blank">www.amk.ca</a>)

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. 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 Poin ter, 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

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

**Developer's Certificate of Origin 1.1**

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

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

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

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

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

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

In addition, the code must not be of U.S. origin.
In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

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

=== EOF ===

From dlitz@dlitz.net Mon May 4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2553

Hi Joris,

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

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

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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 joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
Received: (vmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000
Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

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

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

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:
> Hi Joris,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> People often ask me what license PyCrypto is covered by, if it's
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> Regards,
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
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> >
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Regards,
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--
Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6]) by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
Hi Dwayne.

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

Regards,
Mark.

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

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> 
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
> 
> People often ask me what license PyCrypto is covered by, if
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======================================================================
```

Regards,

- Dwayne

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

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

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

> Hi Dwayne.
> >
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
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-- Dwayne C. Litzenberger <dlitz@dlitz.net>

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

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:

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> 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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> > 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)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQClQmYyYuVODvIlyLg0hgCl9LAbQ
SH8AoLJgaq1IIi7/ZYDc+/-Cd8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----

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

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.

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the public domain. Most are distributed with the following notice:

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1.80 dbus-test 1.12.10 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 from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5bff2bb5b6.

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

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

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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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"

#ifdef DEBUG_STKOVF
#include "assert.h"
#include "assert.h"
#define AUTHORS "Rene Seindal"

static void usage (int) M4_GNUC_NORETURN;

/* Enable sync output for /lib/cpp (-s). */

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int sync_output = 0;

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

/* Hash table size (should be a prime) (-H[size]). */
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;

#ifdef 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. */
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, \n                     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);
}

/*-------------------------------.
| Print a usage message and exit with STATUS. |
`-------------------------------*/

static void
usage (int status)
{
if (status != EXIT_SUCCESS)
xfprintf (stderr, "Try `\%s --help' for more information.\n", program_name);
else
{
xprintf ("Usage: \%s [OPTION]... [FILE]..\n", program_name);
fputs ("\n", stderr);
}
Process macros in FILEs. If no FILE or if FILE is '-', standard input
is read.

", stdout);
    fputs ('\n
\nMandatory or optional arguments to long options are mandatory or optional
for short options too.
\n\nOperation modes:\n\n    --help                  display this help and exit
    --version               output version information and exit
", stdout);
    xprintf ("

-Mandatory or optional arguments to long options are mandatory or optional
for short options too.

Operation modes:\n
    --help                  display this help and exit
    --version               output version information and exit
", stdout);
    xprintf ("

Preprocessor features:\n
    -D, --define=NAME[=VALUE]    define NAME as having VALUE, or empty
    -I, --include=DIRECTORY      append DIRECTORY to include path
    -s, --synclines            generate '#line NUM "FILE"' lines
    -U, --undefine=NAME          undefine NAME
", stdout);
    #endif
    puts ("

Limits control:\n
    -g, --gnu                  override -G to re-enable GNU extensions
    -G, --traditional          suppress all GNU extensions
    -H, --hashsize=PRIME       set symbol lookup hash table size [509]
    -L, --nesting-limit=NUMBER change nesting limit, 0 for unlimited
", stderr);
    puts ('"
    xprintf (",

Frozen state files:\n
    -F, --freeze-state=FILE    produce a frozen state on FILE at end
    -R, --reload-state=FILE    reload a frozen state from FILE at start

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Debugging:
-d, --debug[=FLAGS] set debug level (no FLAGS implies `aeq')
--debugfile[=FILE] redirect debug and trace output to FILE
(default stderr, discard if empty string)
-l, --arglength=NUM restrict macro tracing size
-t, --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.

/* 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},
{"warn-macro-sequence", optional_argument, NULL, WARN_MACRO_SEQUENCE_OPTION},
{"help", no_argument, NULL, HELP_OPTION},
{"version", no_argument, NULL, VERSION_OPTION},

{ NULL, 0, NULL, 0 },
};

/* 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 ();

nposix 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
\'\', 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;
#endif 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 ();
  }
#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 %s' is deprecated"),
             optarg == 'N' ? "-N" : "--diversions");
      break;

    case 'D':
    case 'U':
    case 's':
    case 't':
    case '\1':
    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;

      break;
  }
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 'T':
    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. */
  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 '\1':
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);

1.88 screen 4.6.2 r0

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Version 3, 29 June 2007

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```
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```

1.89 icu 62.1 r0

1.89.1 Available under license:

```text
## -*-makefile-*-
## Copyright (C) 2016 and later: Unicode, Inc. and others.
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
```
GEN_DEPS.c=$(-E -MM $(DEFS) $(CPPFLAGS))
GEN_DEPS.cc=$(-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) $< \n | sed '/^[^a-zA-Z0-9_]/,/[a-zA-Z0-9_]/s/\n/\n$@ : /g' > $@; \n [ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed `s/\($*\)\.*o [ :]*/\1.o $@ : /g` > $@; \
[ -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_TARGET_VERSION_MAJOR) $@

## 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

---

### 1.90 iputils s20180629 r0

### 1.91 lvm2 2.02.180 r0

#### 1.91.1 Available under license:

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```
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<signature of Ty Coon>, 1 April 1989
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 * Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
 */

/*
 * Coverity usage:
 *
 * translate model into xml
 * cov-make-library -of coverity_model.xml coverity_model.c
 *
 * compile (using outdir 'cov'):
 * cov-build --dir=cov make CC=gcc
 *
 * analyze (agressively, using 'cov')
*/
/* cov-analyze --dir cov --wait-for-license --hfa --concurrency --enable-fnptr --enable-constraint-fpp --security --all -- aggressiveness-level=high --field-offset-escape --user-model-file=coverity/coverity_model.xml */

* generate html output (to 'html' from 'cov'):
* cov-format-errors --dir cov --html-output html */

struct lv_segment;
struct logical_volume;

struct lv_segment *first_seg(const struct logical_volume *lv)
{
  return ((struct lv_segment **)lv)[0];
}

struct lv_segment *last_seg(const struct logical_volume *lv)
{
  return ((struct lv_segment **)lv)[0];
}

const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
{
  return "STRING";
}

struct logical_volume *origin_from_cow(const struct logical_volume *lv)
{
  if (lv)
    return lv;
  __coverity_panic__();
}

/* simple_memccpy() from glibc */
void *memccpy(void *dest, const void *src, int c, size_t n)
{
  const char *s = src;
  char *d = dest;
  while (n-- > 0)
    if ((*d++ = *s++) == (char) c)
      return d;

  return 0;
}

/*
* 2 lines below needs to be placed in coverity/config/user_nodefs.h
*/
* Not sure about any other way.
* Without them, coverity shows warning since x86 system header files
  * are using inline assembly to reset fdset
  */

//#nodef FD_ZERO model_FD_ZERO
//void model_FD_ZERO(void *fdset);

void model_FD_ZERO(void *fdset)
{
  unsigned i;

  for (i = 0; i < 1024 / 8 / sizeof(long); ++i)
    ((long*)fdset)[i] = 0;
}

/* Resent Coverity reports quite weird errors... */
int *__errno_location(void)
{
}
const unsigned short **__ctype_b_loc (void)
{
}

/*
* Added extra pointer check to not need these models,
* for now just keep then in file
*/

/*
struct cmd_context;
struct profile;

const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
{
  return "text";
}

const char *find_config_tree_str_allow_empty(struct cmd_context *cmd, int id, struct profile *profile)
{
  return "text";
}
*/

/*
* Until fixed coverity case# 00531860:
*/
* A FORWARD_NULL false positive on a recursive function call
 *
 * model also these functions:
 */
 /*
 const struct dm_config_node;
 const struct dm_config_node *find_config_tree_array(struct cmd_context *cmd, int id, struct profile *profile)
 { }
 const struct dm_config_node *cn;
 
 return cn;
 }

 const struct dm_config_node *find_config_tree_node(struct cmd_context *cmd, int id, struct profile *profile)
 { }
 const struct dm_config_node *cn;
 
 return cn;
 }

 int find_config_tree_bool(struct cmd_context *cmd, int id, struct profile *profile)
 { }
 int b;
 
 return b;
 }
 */

---

1.92 checkpolicy 2.8 r0

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1.96 kbd 2.0.4 r0

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rJ ~vvvmnn8][8]~> 8 xx""""> 8 """"UUUUUU >PP

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0       leshort         0x0436          psf screen font data
>2      byte            0               256 characters, no index
>2      byte            1               512 characters, no index
>2	byte		2		256 characters, Unicode index
>2	byte		3		512 characters, Unicode index
>2	byte		4		256 characters, Unicode level 2 index
>2	byte		5		512 characters, Unicode level 2 index
>3	byte		x		8x%d

# PC Screen (console) Fonts - psf2 header

0       lelong		0x864ab572	psf2 screen font data
>12	lelong&1	1		with Unicode index
>16	lelong		x		, %d glyphs
>28	lelong		x		%d

rJ

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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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```
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```

```
-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

Files: *
Licence: X11
```
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-- vile: txtmode file-encoding=utf-8

1.98 sysklogd 1.5.1 r0

1.98.1 Available under license:

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Version 2, June 1991

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Anil Kumar
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Gocheck - A rich testing framework for Go

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1.108 libnl3 3.4.0 r0

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changes were used in the work (which must be distributed under
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user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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

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1.114 python-backports-lzma 0.0.3 r0

1.115 dtc 1.4.7 r0

1.116 libsmi 0.5.0 r0
1.116.1 Available under license:

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

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both traditional one-character options, and GNU'ish --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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-------------------------------------------------------------

1.117 libnss-nis 3.0 r0

1.118 pango 1.42.4 r0

1.118.1 Available under license:

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1.119 python_enum 1.1.6 r0
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1.120 wget 1.19.5 r0

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more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
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#include "wget.h"
#include "hash.h"
#include "utils.h"
#include "version.h"
#include "dirname.h"
#include "url.h"

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <tmpdir.h>
#include <sha1.h>
#include <base32.h>
#include <unistd.h>

#include <zlib.h>

#include <uuid/uuid.h>

ifdef HAVE_LIBZ
#include <zlib.h>
endif

define HAVE_LIBUUID
#include <uuid/uuid.h>

elif HAVE_UUID_CREATE
#include <uuid.h>
endif

#include "warc.h"
#include "exits.h"
#ifdef WINDOWS
/* we need this on Windows to have O_TEMPORARY defined */
#include <fcntl.h>
#include <rpc.h>
#endif

#ifndef O_TEMPORARY
#define O_TEMPORARY 0
#endif

#include "warc.h"
#include "exits.h"

/* The log file (a temporary file that contains a copy of the wget log). */
static FILE *warc_log_fp;

/* The manifest file (a temporary file that contains the warcinfo uuid of every file in this crawl). */
static FILE *warc_manifest_fp;

/* The current WARC file (or NULL, if WARC is disabled). *
static FILE *warc_current_file;

#ifdef HAVE_LIBZ
/* The gzip stream for the current WARC file (or NULL, if WARC or gzip is disabled). */
static gzFile warc_current_gzfile;

/* The offset of the current gzip record in the WARC file. */
static off_t warc_current_gzfile_offset;

/* The uncompressed size (so far) of the current record. */
static off_t warc_current_gzfile_uncompressed_size;
#endif

/* This is true until a warc_write_* method fails. */
static bool warc_write_ok;

/* The current CDX file (or NULL, if CDX is disabled). */
static FILE *warc_current_cdx_file;

/* The record id of the warcinfo record of the current WARC file. */
static char warc_current_warcinfo_uuid_str[48];

/* The file name of the current WARC file. */
static char *warc_current_filename;

/* The serial number of the current WARC file. This number is
incremented each time a new file is opened and is used in the
WARC file's filename. */
static int warc_current_file_number;

/* The table of CDX records, if deduplication is enabled. */
static struct hash_table * warc_cdx_dedup_table;

static bool warc_start_new_file (bool meta);

struct warc_cdx_record
{
    char *url;
    char *uuid;
    char digest[SHA1_DIGEST_SIZE];
};

static unsigned long
warc_hash_sha1_digest (const void *key)
{
    /* We just use some of the first bytes of the digest. */
    unsigned long v = 0;
    memcpy (&v, key, sizeof (unsigned long));
    return v;
}

static int
warc_cmp_sha1_digest (const void *digest1, const void *digest2)
{
    return !memcmp (digest1, digest2, SHA1_DIGEST_SIZE);
}

/* Writes SIZE bytes from BUFFER to the current WARC file,
through gzwrite if compression is enabled.
Returns the number of uncompressed bytes written. */
static size_t
warc_write_buffer (const char *buffer, size_t size)
{
    #ifdef HAVE_LIBZ
    if (warc_current_gzfile)
    {
        warc_current_gzfile_uncompressed_size += size;
        return gzwrite (warc_current_gzfile, buffer, size);
    }
    
    /* We just use some of the first bytes of the digest. */
    unsigned long v = 0;
    memcpy (&v, digest1, sizeof (unsigned long));
    return v;
}

/* The table of CDX records, if deduplication is enabled. */
static struct hash_table * warc_cdx_dedup_table;

static bool warc_start_new_file (bool meta);

struct warc_cdx_record
{
    char *url;
    char *uuid;
    char digest[SHA1_DIGEST_SIZE];
};

static unsigned long
warc_hash_sha1_digest (const void *key)
{
    /* We just use some of the first bytes of the digest. */
    unsigned long v = 0;
    memcpy (&v, key, sizeof (unsigned long));
    return v;
}

static int
warc_cmp_sha1_digest (const void *digest1, const void *digest2)
{
    return !memcmp (digest1, digest2, SHA1_DIGEST_SIZE);
}

/* Writes SIZE bytes from BUFFER to the current WARC file,
through gzwrite if compression is enabled.
Returns the number of uncompressed bytes written. */
static size_t
warc_write_buffer (const char *buffer, size_t size)
{
    #ifdef HAVE_LIBZ
    if (warc_current_gzfile)
    {
        warc_current_gzfile_uncompressed_size += size;
        return gzwrite (warc_current_gzfile, buffer, size);
    }
    
    /* We just use some of the first bytes of the digest. */
    unsigned long v = 0;
    memcpy (&v, digest1, sizeof (unsigned long));
    return v;
}
/* Writes STR to the current WARC file.
   Returns false and set warc_write_ok to false if there
   is an error. */
static bool
warc_write_string (const char *str)
{
    size_t n;

    if (!warc_write_ok)
        return false;

    n = strlen (str);
    if (n != warc_write_buffer (str, n))
        warc_write_ok = false;

    return warc_write_ok;
}

#define EXTRA_GZIP_HEADER_SIZE 14
#define GZIP_STATIC_HEADER_SIZE 10
#define FLG_FEXTRA          0x04
#define OFF_FLG             3

/* Starts a new WARC record. Writes the version header.
   If opt.warc_maxsize is set and the current file is becoming
   too large, this will open a new WARC file.

   If compression is enabled, this will start a new
   gzip stream in the current WARC file.

   Returns false and set warc_write_ok to false if there
   is an error. */
static bool
warc_write_start_record (void)
{
    if (!warc_write_ok)
        return false;

    fflush (warc_current_file);
    if (opt.warc_maxsize > 0 && ftello (warc_current_file) >= opt.warc_maxsize)
        warc_start_new_file (false);
#ifdef HAVE_LIBZ

/* Start a GZIP stream, if required. */
if (opt.warc_compression_enabled)
{
    /* Record the starting offset of the new record. */
    warc_current_gzfile_offset = ftello (warc_current_file);

    /* Reserve space for the extra GZIP header field.
    In warc_write_end_record we will fill this space
    with information about the uncompressed and
    compressed size of the record. */
    fseek (warc_current_file, EXTRA_GZIP_HEADER_SIZE, SEEK_CUR);
    fflush (warc_current_file);

    /* Start a new GZIP stream. */
    warc_current_gzfile = gzopen (dup (fileno (warc_current_file)), "wb9");
    warc_current_gzfile_uncompressed_size = 0;

    if (warc_current_gzfile == NULL)
    {
        logprintf (LOG_NOTQUIET,
            "Error opening GZIP stream to WARC file.\n");
        warc_write_ok = false;
        return false;
    }
}
#endif

warc_write_string ("WARC/1.0\n");
return warc_write_ok;
}

/* Writes a WARC header to the current WARC record.
   This method may be run after warc_write_start_record and
   before warc_write_block_from_file. */
static bool
warc_write_header (const char *name, const char *value)
{
    if (value)
    {
        warc_write_string (name);
        warc_write_string (": ");
        warc_write_string (value);
        warc_write_string ("\n");
    }
    return warc_write_ok;
}
/* Writes a WARC header with a URI as value to the current WARC record.
This method may be run after warc_write_start_record and
before warc_write_block_from_file. */
static bool
warc_write_header_uri (const char *name, const char *value)
{
if (value)
{
warc_write_string (name);
warc_write_string (": <");
warc_write_string (value);
warc_write_string (">\r\n");
}
return warc_write_ok;
}
/* Copies the contents of DATA_IN to the WARC record.
Adds a Content-Length header to the WARC record.
Run this method after warc_write_header,
then run warc_write_end_record. */
static bool
warc_write_block_from_file (FILE *data_in)
{
/* Add the Content-Length header. */
char content_length[MAX_INT_TO_STRING_LEN(off_t)];
char buffer[BUFSIZ];
size_t s;
fseeko (data_in, 0L, SEEK_END);
number_to_string (content_length, ftello (data_in));
warc_write_header ("Content-Length", content_length);
/* End of the WARC header section. */
warc_write_string ("\r\n");
if (fseeko (data_in, 0L, SEEK_SET) != 0)
warc_write_ok = false;
/* Copy the data in the file to the WARC record. */
while (warc_write_ok && (s = fread (buffer, 1, BUFSIZ, data_in)) > 0)
{
if (warc_write_buffer (buffer, s) < s)
warc_write_ok = false;
}
return warc_write_ok;
}

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/* Run this method to close the current WARC record. */

static bool warc_write_end_record (void)
{
    warc_write_buffer ("\r\n\r\n", 4);

#ifdef HAVE_LIBZ
    /* We start a new gzip stream for each record. */
    if (warc_write_ok && warc_current_gzfile)
    {
        char extra_header[EXTRA_GZIP_HEADER_SIZE];
        char static_header[GZIP_STATIC_HEADER_SIZE];
        off_t current_offset, uncompressed_size, compressed_size;
        size_t result;

        if (gzclose (warc_current_gzfile) != Z_OK)
        {
            warc_write_ok = false;
            return false;
        }

        fflush (warc_current_file);
        fseeko (warc_current_file, 0, SEEK_END);

        /* The WARC standard suggests that we add 'skip length' data in the extra header field of the GZIP stream. */

        In warc_write_start_record we reserved space for this extra header. 
        This extra space starts at warc_current_gzfile_offset and fills EXTRA_GZIP_HEADER_SIZE bytes. The static GZIP header starts at warc_current_gzfile_offset + EXTRA_GZIP_HEADER_SIZE.

        We need to do three things:
        1. Move the static GZIP header to warc_current_gzfile_offset;
        2. Set the FEXTRA flag in the GZIP header;
        3. Write the extra GZIP header after the static header, that is, starting at warc_current_gzfile_offset + GZIP_STATIC_HEADER_SIZE.
        */

        /* Calculate the uncompressed and compressed sizes. */
        current_offset = ftello (warc_current_file);
        uncompressed_size = current_offset - warc_current_gzfile_offset;
compressed_size = warc_current_gzfile_uncompressed_size;

/* Go back to the static GZIP header. */
fseeko (warc_current_file, warc_current_gzfile_offset
   + EXTRA_GZIP_HEADER_SIZE, SEEK_SET);

/* Read the header. */
result = fread (static_header, 1, GZIP_STATIC_HEADER_SIZE,
   warc_current_file);
if (result != GZIP_STATIC_HEADER_SIZE)
{
   warc_write_ok = false;
   return false;
}

/* Set the FEXTRA flag in the flags byte of the header. */
static_header[OFF_FLG] = static_header[OFF_FLG] | FLG_FEXTRA;

/* Write the header back to the file, but starting at
   warc_current_gzfile_offset. */
fseeko (warc_current_file, warc_current_gzfile_offset, SEEK_SET);
fwrite (static_header, 1, GZIP_STATIC_HEADER_SIZE, warc_current_file);

/* Prepare the extra GZIP header. */
/* XLEN, the length of the extra header fields. */
extra_header[0]  = ((EXTRA_GZIP_HEADER_SIZE - 2) & 255);
extra_header[1]  = ((EXTRA_GZIP_HEADER_SIZE - 2) >> 8) & 255;
/* The extra header field identifier for the WARC skip length. */
extra_header[2]  = 's';
extra_header[3]  = 'l';
/* The size of the field value (8 bytes). */
extra_header[4]  = (8 & 255);
extra_header[5]  = ((8 >> 8) & 255);
/* The size of the uncompressed record. */
extra_header[6]  = (uncompressed_size & 255);
extra_header[7]  = (uncompressed_size >> 8) & 255;
extra_header[8]  = (uncompressed_size >> 16) & 255;
extra_header[9]  = (uncompressed_size >> 24) & 255;
/* The size of the compressed record. */
extra_header[10] = (compressed_size & 255);
extra_header[12] = (compressed_size >> 16) & 255;
extra_header[13] = (compressed_size >> 24) & 255;

/* Write the extra header after the static header. */
fseeko (warc_current_file, warc_current_gzfile_offset
   + GZIP_STATIC_HEADER_SIZE, SEEK_SET);
fwrite (extra_header, 1, EXTRA_GZIP_HEADER_SIZE, warc_current_file);
/* Done, move back to the end of the file. */
fflush (warc_current_file);
ffseeko (warc_current_file, 0, SEEK_END);
}
#endif /* HAVE_LIBZ */

return warc_write_ok;
}

/* Writes the WARC-Date header for the given timestamp to the current WARC record.
   If timestamp is NULL, the current time will be used. */
static bool
warc_write_date_header (const char *timestamp)
{
  char current_timestamp[21];

  return warc_write_header ("WARC-Date", timestamp ? timestamp :
                        warc_timestamp (current_timestamp, sizeof(current_timestamp)));
}

/* Writes the WARC-IP-Address header for the given IP to the current WARC record. If IP is NULL, no header will be written. */
static bool
warc_write_ip_header (const ip_address *ip)
{
  if (ip != NULL)
    return warc_write_header ("WARC-IP-Address", print_address (ip));
  else
    return warc_write_ok;
}

/* warc_sha1_stream_with_payload is a modified copy of sha1_stream from gnulib/sha1.c. This version calculates two digests in one go. 

Compute SHA1 message digests for bytes read from STREAM. The digest of the complete file will be written into the 16 bytes beginning at RES_BLOCK.

If payload_offset >= 0, a second digest will be calculated of the portion of the file starting at payload_offset and continuing to the end of the file. The digest number will be written into the 16 bytes beginning ad RES_PAYLOAD. */
static int
warc_shal_stream_with_payload (FILE *stream, void *res_block, void *res_payload,
    off_t payload_offset)
{
    #define BLOCKSIZE 32768

    struct sha1_ctx ctx_block;
    struct sha1_ctx ctx_payload;
    off_t pos;
    off_t sum;

    char *buffer = xmalloc (BLOCKSIZE + 72);

    /* Initialize the computation context. */
    sha1_init_ctx (&ctx_block);
    if (payload_offset >= 0)
        sha1_init_ctx (&ctx_payload);

    pos = 0;

    /* Iterate over full file contents. */
    while (1)
    {
        /* We read the file in blocks of BLOCKSIZE bytes. One call of the
           computation function processes the whole buffer so that with the
           next round of the loop another block can be read. */
        off_t n;
        sum = 0;

        /* Read block. Take care for partial reads. */
        while (1)
        {
            n = fread (buffer + sum, 1, BLOCKSIZE - sum, stream);

            sum += n;
            pos += n;

            if (sum == BLOCKSIZE)
                break;

            if (n == 0)
            {
                /* Check for the error flag IFF N == 0, so that we don't
                   exit the loop after a partial read due to e.g., EAGAIN
                   or EWOULDBLOCK. */
                if (ferror (stream))
                {
                    xfree (buffer);
                    return 1;
                }
            }
        }
    }
}
goto process_partial_block;
}

/* We've read at least one byte, so ignore errors.  But always
check for EOF, since feof may be true even though N > 0.
Otherwise, we could end up calling fread after EOF. */
if (feof (stream))
    goto process_partial_block;
}

/* Process buffer with BLOCKSIZE bytes.  Note that
   BLOCKSIZE % 64 == 0
*/
sha1_process_block (buffer, BLOCKSIZE, &ctx_block);
if (payload_offset >= 0 && payload_offset < pos)
{
    /* At least part of the buffer contains data from payload. */
    off_t start_of_payload = payload_offset - (pos - BLOCKSIZE);
    if (start_of_payload <= 0)
        /* All bytes in the buffer belong to the payload. */
        start_of_payload = 0;

    /* Process the payload part of the buffer.
    Note: we can't use  sha1_process_block  here even if we
    process the complete buffer.  Because the payload doesn't
    have to start with a full block, there may still be some
    bytes left from the previous buffer.  Therefore, we need
    to continue with  sha1_process_bytes. */
    sha1_process_bytes (buffer + start_of_payload,
                        BLOCKSIZE - start_of_payload, &ctx_payload);
}
}

process_partial_block:

/* Process any remaining bytes. */
if (sum > 0)
{
    sha1_process_bytes (buffer, sum, &ctx_block);
    if (payload_offset >= 0 && payload_offset < pos)
    {
        /* At least part of the buffer contains data from payload. */
        off_t start_of_payload = payload_offset - (pos - sum);
        if (start_of_payload <= 0)
            /* All bytes in the buffer belong to the payload. */
            start_of_payload = 0;

/* Process the payload part of the buffer. */
sha1_process_bytes (buffer + start_of_payload,
                     sum - start_of_payload, &ctx_payload);
}
}

/* Construct result in desired memory. */
sha1_finish_ctx (&ctx_block, res_block);
if (payload_offset >= 0)
  sha1_finish_ctx (&ctx_payload, res_payload);
xfree (buffer);
return 0;

#undef BLOCKSIZE
}

/* Converts the SHA1 digest to a base32-encoded string.
   "sha1:DIGEST0" (Allocates a new string for the response.) */
static char *
warc_base32_shal_digest (const char *sha1_digest, char *sha1_base32, size_t sha1_base32_size)
{
  if (sha1_base32_size >= BASE32_LENGTH(SHA1_DIGEST_SIZE) + 5 + 1)
  {
    memcpy (sha1_base32, "sha1:", 5);
    base32_encode (sha1_digest, SHA1_DIGEST_SIZE, sha1_base32 + 5,
                   sha1_base32_size - 5);
  }
  else
    *sha1_base32 = 0;

  return sha1_base32;
}

/* Sets the digest headers of the record.
   This method will calculate the block digest and, if payload_offset >= 0,
   will also calculate the payload digest of the payload starting at the
   provided offset. */
static void
warc_write_digest_headers (FILE *file, long payload_offset)
{
  if (opt.warc_digests_enabled)
  {
    /* Calculate the block and payload digests. */
    char sha1_res_block[SHA1_DIGEST_SIZE];
    char sha1_res_payload[SHA1_DIGEST_SIZE];
    rewind (file);
if (warc_sha1_stream_with_payload (file, sha1_res_block, sha1_res_payload, payload_offset) == 0)
{
    char digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];

    warc_write_header ("WARC-Block-Digest",
        warc_base32_sha1_digest (sha1_res_block, digest, sizeof(digest)));

    if (payload_offset >= 0)
        warc_write_header ("WARC-Payload-Digest",
            warc_base32_sha1_digest (sha1_res_payload, digest, sizeof(digest)));
}
}

/* Fills timestamp with the current time and date.
   The UTC time is formatted following ISO 8601, as required
   for use in the WARC-Date header.
   The timestamp will be 21 characters long. */
char *
warc_timestamp (char *timestamp, size_t timestamp_size)
{
    time_t rawtime = time (NULL);
    struct tm * timeinfo = gmtime (&rawtime);

    if (strftime (timestamp, timestamp_size, "%Y-%m-%dT%H:%M:%SZ", timeinfo) == 0 && timestamp_size > 0)
        *timestamp = 0;

    return timestamp;
}

/* Fills urn_str with a UUID in the format required
   for the WARC-Record-Id header.
   The string will be 47 characters long. */
#if HAVE_LIBUUID
void
warc_uuid_str (char *urn_str)
{
    char uuid_str[37];
    uuid_t record_id;

    uuid_generate (record_id);
    uuid_unparse (record_id, uuid_str);

    sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
}
#elif HAVE_UUID_CREATE
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void
warc_uuid_str (char *urn_str)
{
  char *uuid_str;
  uuid_t record_id;

  uuid_create (&record_id, NULL);
  uuid_to_string (&record_id, &uuid_str, NULL);

  sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
  xfree (uuid_str);
}
#else
#endif

typedef RPC_STATUS (RPC_ENTRY * UuidCreate_proc) (UUID *);
typedef RPC_STATUS (RPC_ENTRY * UuidToString_proc) (UUID *, unsigned char **);
typedef RPC_STATUS (RPC_ENTRY * RpcStringFree_proc) (unsigned char **);

static int
windows_uuid_str (char *urn_str)
{
  static UuidCreate_proc pfn_UuidCreate = NULL;
  static UuidToString_proc pfn_UuidToString = NULL;
  static RpcStringFree_proc pfn_RpcStringFree = NULL;
  static int rpc_uuid_avail = -1;

  /* Rpcrt4.dll is not available on older versions of Windows, so we
   * need to test its availability at run time. */
  if (rpc_uuid_avail == -1)
    {
      HMODULE hm_rpcr4 = LoadLibrary ("Rpcrt4.dll");

      if (hm_rpcr4)
        {
          pfn_UuidCreate =
            (UuidCreate_proc) GetProcAddress (hm_rpcr4, "UuidCreate");
          pfn_UuidToString =
            (UuidToString_proc) GetProcAddress (hm_rpcr4, "UuidToStringA");
          pfn_RpcStringFree =
            (RpcStringFree_proc) GetProcAddress (hm_rpcr4, "RpcStringFreeA");
          if (pfn_UuidCreate && pfn_UuidToString && pfn_RpcStringFree)
            rpc_uuid_avail = 1;
          else
            rpc_uuid_avail = 0;
        }
      else
        rpc_uuid_avail = 0;
    }
if (rpc_uuid_avail)
{
    BYTE *uuid_str;
    UUID  uuid;

    if (pfn_UuidCreate (&uuid) == RPC_S_OK)
    {
        if (pfn_UuidToString (&uuid, &uuid_str) == RPC_S_OK)
        {
            sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
            pfn_RpcStringFree (&uuid_str);
            return 1;
        }
    }
    else
    {
        return 0;
    }
}
#endif

/* Fills urn_str with a UUID based on random numbers in the format
required for the WARC-Record-Id header.
(See RFC 4122, UUID version 4.)

Note: this is a fallback method, it is much better to use the
methods provided by libuuid.

The string will be 47 characters long. */
void
warc_uuid_str (char *urn_str)
{
    /* RFC 4122, a version 4 UUID with only random numbers */

    unsigned char uuid_data[16];
    int i;

#if define WINDOWS
    /* If the native method fails (expected on older Windows versions),
       use the fallback below. */
    if (windows_uuid_str (urn_str))
        return;
#endif

    for (i=0; i<16; i++)
        uuid_data[i] = random_number (255);

    /* Set the four most significant bits (bits 12 through 15) of the
     * time_hi_and_version field to the 4-bit version number */
uuid_data[6] = (uuid_data[6] & 0x0F) | 0x40;

/* Set the two most significant bits (bits 6 and 7) of the
clock_seq_hi_and_reserved to zero and one, respectively. */
uuid_data[8] = (uuid_data[8] & 0xBF) | 0x80;

sprintf (urn_str,
"<urn:uuid:%02x%02x%02x-%02x%02x-%02x%02x-%02x%02x%02x%02x%02x%02x%
",
uuid_data[0], uuid_data[1], uuid_data[2], uuid_data[3], uuid_data[4],
uuid_data[5], uuid_data[6], uuid_data[7], uuid_data[8], uuid_data[9],
uuid_data[10], uuid_data[11], uuid_data[12], uuid_data[13], uuid_data[14],
uuid_data[15]);
#endif

/* Write a warcinfo record to the current file.
 Updates warc_current_warcinfo_uuid_str. */
static bool
warc_write_warcinfo_record (const char *filename)
{
    FILE *warc_tmp;
    char timestamp[22];
    char *filename_basename;

    /* Write warc-info record as the first record of the file. */
    /* We add the record id of this info record to the other records in the
    file. */
    warc_uuid_str (warc_current_warcinfo_uuid_str);

    warc_timestamp (timestamp, sizeof(timestamp));

    filename_basename = base_name (filename);

    /* Create content. */
    warc_tmp = warc_tempfile ();
    if (warc_tmp == NULL)
    {
        return false;
    }
}
fprintf (warc_tmp, "software: Wget/%s (%s)\n", version_string, OS_TYPE);
fprintf (warc_tmp, "format: WARC File Format 1.0\n");
fprintf (warc_tmp, "conformsTo: http://bibnum.bnf.fr/WARC/WARC_ISO_28500_version1_latestdraft.pdf\n");
fprintf (warc_tmp, "robots: %s\n", (opt.use_robots ? "classic" : "off"));
fprintf (warc_tmp, "wget-arguments: %s\n", program_argstring);
/* Add the user headers, if any. */
if (opt.warc_user_headers)
{
    int i;
    for (i = 0; opt.warc_user_headers[i]; i++)
        fprintf (warc_tmp, "%s\n", opt.warc_user_headers[i]);
}
fprintf(warc_tmp, "\n");
warc_write_digest_headers (warc_tmp, -1);
warc_write_block_from_file (warc_tmp);
warc_write_end_record ();

if (! warc_write_ok)
    logprintf (LOG_NOTQUIET, _("Error writing warcinfo record to WARC file.\n"));

fclose (warc_tmp);
return warc_write_ok;
}

/* Opens a new WARC file.
If META is true, generates a filename ending with 'meta.warc.gz'.

This method will:
1. close the current WARC file (if there is one);
2. increment warc_current_file_number;
3. open a new WARC file;
4. write the initial warcinfo record.

Returns true on success, false otherwise.
*/
static bool
warc_start_new_file (bool meta)
{
    #ifdef __VMS
    # define WARC_GZ "warc-gz"
    #else /* def __VMS */
    # define WARC_GZ "warc.gz"
    #endif /* def __VMS */
    # ifdef HAVE_LIBZ

    #ifdef HAVE_LIBZ

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const char *extension = (opt.warc_compression_enabled ? WARC_GZ : "warc");
#else
const char *extension = "warc";
#endif

int base_filename_length;
char *new_filename;

if (opt.warc_filename == NULL)
    return false;

if (warc_current_file != NULL)
    fclose (warc_current_file);

*warc_current_warcinfo_uuid_str = 0;
xfree (warc_current_filename);

warc_current_file_number++;

base_filename_length = strlen (opt.warc_filename);
/* filename format: base + "." + 5 digit serial number + ".warc.gz" */
new_filename = xmalloc (base_filename_length + 1 + 5 + 8 + 1);

warc_current_filename = new_filename;

/* If max size is enabled, we add a serial number to the file names. */
if (meta)
    sprintf (new_filename, "%s-meta.%s", opt.warc_filename, extension);
else if (opt.warc_maxsize > 0)
{
    sprintf (new_filename, "%s-%05d.%s", opt.warc_filename,
            warc_current_file_number, extension);
}
else
    sprintf (new_filename, "%s.%s", opt.warc_filename, extension);

logprintf (LOG_VERBOSE, _("Opening WARC file %s\n\n"), quote (new_filename));

/* Open the WARC file. */
warc_current_file = fopen (new_filename, "wb+");
if (warc_current_file == NULL)
{
    logprintf (LOG_NOTQUIET, _("Error opening WARC file %s\n"),
                 quote (new_filename));
    return false;
}

if (! warc_write_warcinfo_record (new_filename))
return false;

/* Add warcinfo uuid to manifest. */
if (warc_manifest_fp)
    fprintf (warc_manifest_fp, "\%s\n", warc_current_warcinfo_uuid_str);

return true;
}

/* Opens the CDX file for output. */
static bool
warc_start_cdx_file (void)
{
    int filename_length = strlen (opt.warc_filename);
    char *cdx_filename = alloca (filename_length + 4 + 1);
    memcpy (cdx_filename, opt.warc_filename, filename_length);
    memcpy (cdx_filename + filename_length, ".cdx", 5);
    warc_current_cdx_file = fopen (cdx_filename, "a+");
    if (warc_current_cdx_file == NULL)
        return false;

    /* Print the CDX header.
     * a - original url
     * b - date
     * m - mime type
     * s - response code
     * k - new style checksum
     * r - redirect
     * M - meta tags
     * V - compressed arc file offset
     * g - file name
     * u - record-id
     */
    fprintf (warc_current_cdx_file, " CDX a b a m s k r M V g u\n");
    fflush (warc_current_cdx_file);

    return true;
}

#define CDX_FIELDSEP " \t\r\n"

/* Parse the CDX header and find the field numbers of the original url,
checksum and record ID fields. */
static bool
warc_parse_cdx_header (char *lineptr, int *field_num_original_url,
                        int *field_num_checksum, int *field_num_record_id)
{
    int field_num_original_url = -1;
    int field_num_checksum = -1;
    int field_num_record_id = -1;

    /* Find the field numbers of the original url, checksum and record ID fields. */
    /* a - original url
     * m - mime type
     * s - response code
     * k - new style checksum
     * r - redirect
     * M - meta tags
     * V - compressed arc file offset
     * g - file name
     * u - record-id
     */
    if (field_num_original_url < 0)
        field_num_original_url = std::strspn (lineptr, CDX_FIELDSEP);
    if (field_num_checksum < 0)
        field_num_checksum = std::strspn (lineptr + field_num_original_url + 1,
                                           CDX_FIELDSEP);
char *token;
char *save_ptr;

*field_num_original_url = -1;
*field_num_checksum = -1;
*field_num_record_id = -1;

token = strtok_r(lineptr, CDX_FIELDSEP, &save_ptr);

if (token != NULL && strcmp(token, "CDX") == 0)
{
    int field_num = 0;
    while (token != NULL)
    {
        token = strtok_r(NULL, CDX_FIELDSEP, &save_ptr);
        if (token != NULL)
        {
            switch (token[0])
            {
            case 'a':
                *field_num_original_url = field_num;
                break;
            case 'k':
                *field_num_checksum = field_num;
                break;
            case 'u':
                *field_num_record_id = field_num;
                break;
            }
            field_num++; 
        }
    }
}

return *field_num_original_url != -1
    && *field_num_checksum != -1
    && *field_num_record_id != -1;

/* Parse the CDX record and add it to the warc_cdx_dedup_table hash table. */
static void
warc_process_cdx_line (char *lineptr, int field_num_original_url,
                        int field_num_checksum, int field_num_record_id)
{
    char *original_url = NULL;
    char *checksum = NULL;
    char *record_id = NULL;
    char *token;
char *save_ptr;
int field_num = 0;

/* Read this line to get the fields we need. */
token = strtok_r (lineptr, CDX_FIELDSEP, &save_ptr);
while (token != NULL)
{
    char **val;
    if (field_num == field_num_original_url)
        val = &original_url;
    else if (field_num == field_num_checksum)
        val = &checksum;
    else if (field_num == field_num_record_id)
        val = &record_id;
    else
        val = NULL;
    if (val != NULL)
        *val = strdup (token);
    token = strtok_r (NULL, CDX_FIELDSEP, &save_ptr);
    field_num++;
}

if (original_url != NULL && checksum != NULL && record_id != NULL)
{
    /* For some extra efficiency, we decode the base32 encoded
     checksum value. This should produce exactly SHA1_DIGEST_SIZE
     bytes. */
    size_t checksum_l;
    char *checksum_v;
    base32_decode_alloc (checksum, strlen (checksum), &checksum_v,
                     &checksum_l);
    xfree (checksum);

    if (checksum_v != NULL && checksum_l == SHA1_DIGEST_SIZE)
    {
        /* This is a valid line with a valid checksum. */
        struct warc_cdx_record *rec;
        rec = xmalloc (sizeof (struct warc_cdx_record));
        rec->url = original_url;
        rec->uuid = record_id;
        memcpy (rec->digest, checksum_v, SHA1_DIGEST_SIZE);
        hash_table_put (warc_cdx_dedup_table, rec->digest, rec);
        xfree (checksum_v);
    }
    else
    {
    
}
/* Loads the CDX file from opt.warc_cdx_dedup_filename and fills
   the warc_cdx_dedup_table. */
static bool
warc_load_cdx_dedup_file (void)
{
  FILE *f;
  char *lineptr = NULL;
  size_t n = 0;
  ssize_t line_length;
  int field_num_original_url = -1;
  int field_num_checksum = -1;
  int field_num_record_id = -1;

  f = fopen (opt.warc_cdx_dedup_filename, "r");
  if (f == NULL)
    return false;
  /* The first line should contain the CDX header. 
     Format: " CDX x x x x x"
     where x are field type indicators. For our purposes, we only
     need 'a' (the original url), 'k' (the SHA1 checksum) and
     'u' (the WARC record id). */
  line_length = getline (&lineptr, &n, f);
  if (line_length != -1)
    warc_parse_cdx_header (lineptr, &field_num_original_url,
                           &field_num_checksum, &field_num_record_id);

  /* If the file contains all three fields, read the complete file. */
  if (field_num_original_url == -1
      || field_num_checksum == -1
      || field_num_record_id == -1)
  {
    if (field_num_original_url == -1)
      logprintf (LOG_NOTQUIET,
                 (_("CDX file does not list original urls. (Missing column 'a').\n"));
  }
}
if (field_num_checksum == -1)
    logprintf (LOG_NOTQUIET,
    _("CDX file does not list checksums. (Missing column 'k').\n"));
if (field_num_record_id == -1)
    logprintf (LOG_NOTQUIET,
    _("CDX file does not list record ids. (Missing column 'u').\n"));
}
else
{
    int nrecords;

    /* Initialize the table. */
    warc_cdx_dedup_table = hash_table_new (1000, warc_hash_sha1_digest,
                                         warc_cmp_sha1_digest);

    do
    {
        line_length = getline (&lineptr, &n, f);
        if (line_length != -1)
        {
            warc_process_cdx_line (lineptr, field_num_original_url,
                                    field_num_checksum, field_num_record_id);
        }
    }
    while (line_length != -1);

    /* Print results. */
    nrecords = hash_table_count (warc_cdx_dedup_table);
    logprintf (LOG_VERBOSE, ngettext ("Loaded %d record from CDX.\n\n", "Loaded %d records from CDX.\n\n", nrecords),
                nrecords);

    xfree (lineptr);
    fclose (f);

    return true;
}

#define CDX_FIELDSEP

/* Returns the existing duplicate CDX record for the given url and payload
   digest. Returns NULL if the url is not found or if the payload digest
   does not match, or if CDX deduplication is disabled. */
static struct warc_cdx_record *
    warc_find_duplicate_cdx_record (const char *url, char *sha1_digest_payload)
struct warc_cdx_record *rec_existing;

if (warc_cdx_dedup_table == NULL)
    return NULL;

rec_existing = hash_table_get (warc_cdx_dedup_table, sha1_digest_payload);

if (rec_existing && strcmp (rec_existing->url, url) == 0)
    return rec_existing;
else
    return NULL;
}

/* Initializes the WARC writer (if opt.warc_filename is set).
   This should be called before any WARC record is written. */
void
warc_init (void)
{
    warc_write_ok = true;

    if (opt.warc_filename != NULL)
    {
        if (opt.warc_cdx_dedup_filename != NULL)
        {
            if (! warc_load_cdx_dedup_file ()
                logprintf (LOG_NOTQUIET,
                    _("Could not read CDX file %s for deduplication.\n"),
                quote (opt.warc_cdx_dedup_filename));
                exit (WGET_EXIT_GENERIC_ERROR);
            }
        }
        warc_manifest_fp = warc_tempfile ();
        if (warc_manifest_fp == NULL)
            logprintf (LOG_NOTQUIET,
                _("Could not open temporary WARC manifest file.\n"));
                exit (WGET_EXIT_GENERIC_ERROR);
        }
        if (opt.warc_keep_log)
        {
            warc_log_fp = warc_tempfile ();
            if (warc_log_fp == NULL)
                logprintf (LOG_NOTQUIET,
                    _("Could not open temporary WARC log file.\n"));
                    }
exit (WGET_EXIT_GENERIC_ERROR);
}
log_set_warc_log_f (warc_log_f);
}

warc_current_file_number = -1;
if (! warc_start_new_f (false))
{
    logprintf (LOG_NOTQUIET, _("Could not open WARC file\n"));
    exit (WGET_EXIT_GENERIC_ERROR);
}

if (opt.warc_cdx_enabled)
{
    if (! warc_start_cdx_f ()
    {
        logprintf (LOG_NOTQUIET,
            _("Could not open CDX file for output\n"));
        exit (WGET_EXIT_GENERIC_ERROR);
    }
}

/* Writes metadata (manifest, configuration, log file) to the WARC file. */
static void
warc_write_metadata (void)
{
    char manifest_uuid[48];
    FILE *warc_tmp_f;

    /* If there are multiple WARC files, the metadata should be written to a separate file. */
    if (opt.warc_maxsize > 0)
        warc_start_new_file (true);

    warc_uuid_str (manifest_uuid);
    fflush (warc_manifest_f);
    warc_write_metadata_record (manifest_uuid,
        "metadata://gnu.org/software/wget/warc/MANIFEST.txt",
        NULL, NULL, NULL, "text/plain",
        warc_manifest_f, -1);
    /* warc_write_resource_record has closed warc_manifest_f. */

    warc_tmp_f = warc_tempfile ()
    if (warc_tmp_f == NULL)
    {
        logprintf (LOG_NOTQUIET, _("Could not open temporary WARC file\n"));
    }
exit (WGET_EXIT_GENERIC_ERROR);
}
fflush (warc_tmp_fp);
fprintf (warc_tmp_fp, "%s\n", program_argstring);

warc_write_resource_record (NULL,
    "metadata://gnu.org/software/wget/warc/wget_arguments.txt",
    NULL, manifest_uuid, NULL, "text/plain",
    warc_tmp_fp, -1);
/* warc_write_resource_record has closed warc_tmp_fp. */

if (warc_log_fp != NULL)
{
    warc_write_resource_record (NULL,
        "metadata://gnu.org/software/wget/warc/wget.log",
        NULL, manifest_uuid, NULL, "text/plain",
        warc_log_fp, -1);
    /* warc_write_resource_record has closed warc_log_fp. */

    warc_log_fp = NULL;
    log_set_warc_log_fp (NULL);
}

/* Finishes the WARC writing. 
   This should be called at the end of the program. */
void
warc_close (void)
{
if (warc_current_file != NULL)
{
    warc_write_metadata ();
    *warc_current_warcinfo_uuid_str = 0;
    fclose (warc_current_file);
    warc_current_file = NULL;
}

if (warc_current_cdx_file != NULL)
{
    fclose (warc_current_cdx_file);
    warc_current_cdx_file = NULL;
}

if (warc_log_fp != NULL)
{
    fclose (warc_log_fp);
    log_set_warc_log_fp (NULL);
}
/* Creates a temporary file for writing WARC output.
The temporary file will be created in opt.warc_tempdir.
Returns the pointer to the temporary file, or NULL. */
FILE *
warc_tempfile (void)
{
    char filename[100];
    int fd;

    if (path_search (filename, 100, opt.warc_tempdir, "wget", true) == -1)
        return NULL;

    #ifdef __VMS
    /* 2013-07-12 SMS.
    * mkostemp()+unlink()+fdopen() scheme causes trouble on VMS, so use
    * mktemp() to uniquify the (VMS-style) name, and then use a normal
    * fopen() with a "create temp file marked for delete" option.
    */
    {
        char *tfn;

        tfn = mktemp (filename);       /* Get unique name from template. */
        if (tfn == NULL)
            return NULL;
        return fopen (tfn, "w+", "fop=tmd"); /* Create auto-delete temp file. */
    }
    #else /* def __VMS */
    fd = mkostemp (filename, O_TEMPORARY);
    if (fd < 0)
        return NULL;
    #endif /* def __VMS [else] */

    #ifdef O_TEMPORARY
    if (unlink (filename) < 0)
    {
        close(fd);
        return NULL;
    }
    #endif

    return fdopen (fd, "wb+");
    #endif /* def __VMS [else] */
}

/* Writes a request record to the WARC file.
url is the target uri of the request,
timestamp_str is the timestamp of the request (generated with warc_timestamp),
record_uuid is the uuid of the request (generated with warc_uuid_str),
body is a pointer to a file containing the request headers and body.
ip is the ip address of the server (or NULL),
Calling this function will close body.
Returns true on success, false on error. */
bool
warc_write_request_record (const char *url, const char *timestamp_str,
    const char *record_uuid, const ip_address *ip,
    FILE *body, off_t payload_offset)
{
    warc_write_start_record ();
    warc_write_header ("WARC-Type", "request");
    warc_write_header_uri ("WARC-Target-URI", url);
    warc_write_header ("Content-Type", "application/http;msgtype=request");
    warc_write_date_header (timestamp_str);
    warc_write_header ("WARC-Record-ID", record_uuid);
    warc_write_ip_header (ip);
    warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
    warc_write_digest_headers (body, payload_offset);
    warc_write_block_from_file (body);
    warc_write_end_record ();
    fclose (body);

    return warc_write_ok;
}

/* Writes a response record to the CDX file.
url is the target uri of the request/response,
timestamp_str is the timestamp of the request that generated this response,
    (generated with warc_timestamp),
mime_type is the mime type of the response body (will be printed to CDX),
response_code is the HTTP response code (will be printed to CDX),
payload_digest is the sha1 digest of the payload,
redirect_location is the contents of the Location: header, or NULL (will be printed to CDX),
offset is the position of the WARC record in the WARC file,
warc_filename is the filename of the WARC,
response_uuid is the uuid of the response.
Returns true on success, false on error. */
static bool
warc_write_cdx_record (const char *url, const char *timestamp_str,
    const char *mime_type, int response_code,
    const char *payload_digest, const char *redirect_location,
    off_t offset, const char *warc_filename _GL_UNUSED,
    const char *response_uuid)
{
    /* Transform the timestamp. */
char timestamp_str_cdx[15];
char offset_string[MAX_INT_TO_STRING_LEN(off_t)];
const char *checksum;

memcpy (timestamp_str_cdx     , timestamp_str     , 4); /* "YYYY" "-" */
memcpy (timestamp_str_cdx +  4, timestamp_str +  5, 2); /* "mm"   "-" */
memcpy (timestamp_str_cdx +  6, timestamp_str +  8, 2); /* "dd"   "T" */
memcpy (timestamp_str_cdx +  8, timestamp_str + 11, 2); /* "HH"   ":" */
memcpy (timestamp_str_cdx + 10, timestamp_str + 14, 2); /* "MM"   ":" */
memcpy (timestamp_str_cdx + 12, timestamp_str + 17, 2); /* "SS"   "Z" */
timestamp_str_cdx[14] = '\0';

/* Rewrite the checksum. */
if (payload_digest != NULL)
    checksum = payload_digest + 5; /* Skip the "sha1:" */
else
    checksum = "-";

if (mime_type == NULL || strlen(mime_type) == 0)
    mime_type = "-";
if (redirect_location == NULL || strlen(redirect_location) == 0)
    redirect_location = "-";
else
    redirect_location = url_escape(redirect_location);

number_to_string (offset_string, offset);

/* Print the CDX line. */
fprintf (warc_current_cdx_file, "%s %s %s %s %d %s %s - %s %s %s
", url,
    timestamp_str_cdx, url, mime_type, response_code, checksum,
    redirect_location, offset_string, warc_current_filename,
    response_uuid);
fflush (warc_current_cdx_file);

return true;
}

/* Writes a revisit record to the WARC file.
url  is the target uri of the request/response,
timestamp_str  is the timestamp of the request that generated this response
    (generated with warc_timestamp),
concurrent_to_uuid  is the uuid of the request for that generated this response
    (generated with warc_uuid_str),
refers_to_uuid  is the uuid of the original response
    (generated with warc_uuid_str),
payload_digest  is the sha1 digest of the payload,
ip  is the ip address of the server (or NULL),
body  is a pointer to a file containing the response headers (without payload).
Calling this function will close body.  
Returns true on success, false on error. */
static bool  
warc_write_revisit_record (const char *url, const char *timestamp_str,  
    const char *concurrent_to_uuid, const char *payload_digest,  
    const char *refers_to, const ip_address *ip, FILE *body)  
{  
    char revisit_uuid [48];  
    char block_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];  
    char sha1_res_block[SHA1_DIGEST_SIZE];  

    warc_uuid_str (revisit_uuid);  

    sha1_stream (body, sha1_res_block);  
    warc_base32_sha1_digest (sha1_res_block, block_digest, sizeof(block_digest));  

    warc_write_start_record ();  
    warc_write_header ("WARC-Type", "revisit");  
    warc_write_header ("WARC-Record-ID", revisit_uuid);  
    warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);  
    warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);  
    warc_write_header ("WARC-Refers-To", refers_to);  
    warc_write_header ("WARC-Profile", "http://netpreserve.org/warc/1.0/revisit/identical-payload-digest");  
    warc_write_header ("WARC-Truncated", "length");  
    warc_write_header_uri ("WARC-Target-URI", url);  
    warc_write_date_header (timestamp_str);  
    warc_write_ip_header (ip);  
    warc_write_header ("Content-Type", "application/http;msgtype=response");  
    warc_write_header ("WARC-Block-Digest", block_digest);  
    warc_write_header ("WARC-Payload-Digest", payload_digest);  
    warc_write_block_from_file (body);  
    warc_write_end_record ();  

    fclose (body);  

    return warc_write_ok;  
}  

/* Writes a response record to the WARC file.  
url is the target uri of the request/response,  
timestamp_str is the timestamp of the request that generated this response  
(generated with warc_timestamp),  
concurrent_to_uuid is the uuid of the request for that generated this response  
(generated with warc_uuid_str),  
ip is the ip address of the server (or NULL),  
body is a pointer to a file containing the response headers and body.  
mime_type is the mime type of the response body (will be printed to CDX),  
response_code is the HTTP response code (will be printed to CDX),
redirect_location is the contents of the Location: header, or NULL (will be printed to CDX),
Calling this function will close body.
Returns true on success, false on error. */
bool
warc_write_response_record (const char *url, const char *timestamp_str,
    const char *concurrent_to_uuid, const ip_address *ip,
    FILE *body, off_t payload_offset, const char *mime_type,
    int response_code, const char *redirect_location)
{
    char block_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
    char payload_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
    char sha1_res_block[SHA1_DIGEST_SIZE];
    char sha1_res_payload[SHA1_DIGEST_SIZE];
    char response_uuid[48];
    off_t offset;

    if (opt.warc_digests_enabled)
    {
        /* Calculate the block and payload digests. */
        rewind (body);
        if (warc_sha1_stream_with_payload (body, sha1_res_block, sha1_res_payload,
            payload_offset) == 0)
        {
            /* Decide (based on url + payload digest) if we have seen this
            data before. */
            struct warc_cdx_record *rec_existing;
            rec_existing = warc_find_duplicate_cdx_record (url, sha1_res_payload);
            if (rec_existing != NULL)
            {
                bool result;

                /* Found an existing record. */
                logprintf (LOG_VERBOSE,
                    _("Found exact match in CDX file. Saving revisit record to WARC\n"));

                /* Remove the payload from the file. */
                if (payload_offset > 0)
                {
                    if (ftruncate (fileno (body), payload_offset) == -1)
                        return false;
                }

                /* Send the original payload digest. */
                warc_base32_sha1_digest (sha1_res_payload, payload_digest, sizeof(payload_digest));
                result = warc_write_revisit_record (url, timestamp_str,
                    concurrent_to_uuid, payload_digest, rec_existing->uuid,
                    ip, body);
            }
        }
    }
return result;
}

warc_base32_sha1_digest (sha1_res_block, block_digest, sizeof(block_digest));
warc_base32_sha1_digest (sha1_res_payload, payload_digest, sizeof(payload_digest));
}
}

/* Not a revisit, just store the record. */

warc_uuid_str (response_uuid);

fseeko (warc_current_file, 0L, SEEK_END);
offset = ftello (warc_current_file);

warc_write_start_record ();
warc_write_header ("WARC-Type", "response");
warc_write_header ("WARC-Record-ID", response_uuid);
warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_header ("WARC-Block-Digest", block_digest);
warc_write_header ("WARC-Payload-Digest", payload_digest);
warc_write_header ("Content-Type", "application/http;msgtype=response");
warc_write_block_from_file (body);
warc_write_end_record ();

fclose (body);

if (warc_write_ok && opt.warc_cdx_enabled)
{
    /* Add this record to the CDX. */
    warc_write_cdx_record (url, timestamp_str, mime_type, response_code,
                          payload_digest, redirect_location, offset, warc_current_filename,
                          response_uuid);
}

return warc_write_ok;
}

/* Writes a resource or metadata record to the WARC file.
   warc_type is either "resource" or "metadata",
   resource_uuid is the uuid of the resource (or NULL),
   url is the target uri of the resource,
   timestamp_str is the timestamp (generated with warc_timestamp),
   concurrent_to_uuid is the uuid of the record that generated this,
resource (generated with warc_uuid_str) or NULL,
ip  is the ip address of the server (or NULL),
content_type  is the mime type of the body (or NULL),
body  is a pointer to a file containing the resource data.
Calling this function will close body.
Returns true on success, false on error. */
static bool
warc_write_record (const char *record_type, const char *resource_uuid,
const char *url, const char *timestamp_str,
const char *concurrent_to_uuid,
const ip_address *ip, const char *content_type, FILE *body,
off_t payload_offset)
{
if (resource_uuid == NULL)
{
/* using uuid_buf allows const for resource_uuid in function declaration */
char *uuid_buf = alloca (48);
warc_uuid_str (uuid_buf);
resource_uuid = uuid_buf;
}
if (content_type == NULL)
content_type = "application/octet-stream";

warc_write_start_record ();
warc_write_header ("WARC-Type", record_type);
warc_write_header ("WARC-Record-ID", resource_uuid);
warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_digest_headers (body, payload_offset);
warc_write_header ("Content-Type", content_type);
warc_write_block_from_file (body);
warc_write_end_record ();
fclose (body);

return warc_write_ok;
}

/* Writes a resource record to the WARC file.
resource_uuid  is the uuid of the resource (or NULL),
url  is the target uri of the resource,
timestamp_str  is the timestamp (generated with warc_timestamp),
concurrent_to_uuid  is the uuid of the record that generated this,
resource (generated with warc_uuid_str) or NULL,
bool warc_write_resource_record (const char *resource_uuid, const char *url, const char *timestamp_str, const char *concurrent_to_uuid, const ip_address *ip, const char *content_type, FILE *body, off_t payload_offset) {
    return warc_write_record ("resource", resource_uuid, url, timestamp_str, concurrent_to_uuid, ip, content_type, body, payload_offset);
}

/* Writes a metadata record to the WARC file.
record_uuid is the uuid of the record (or NULL),
url is the target uri of the record,
timestamp_str is the timestamp (generated with warc_timestamp),
concurrent_to_uuid is the uuid of the record that generated this,
record (generated with warc_uuid_str) or NULL,
ip is the ip address of the server (or NULL),
content_type is the mime type of the body (or NULL),
body is a pointer to a file containing the record data.
Calling this function will close body.
Returns true on success, false on error. */

bool warc_write_metadata_record (const char *record_uuid, const char *url, const char *timestamp_str, const char *concurrent_to_uuid, ip_address *ip, const char *content_type, FILE *body, off_t payload_offset) {
    return warc_write_record ("metadata", record_uuid, url, timestamp_str, concurrent_to_uuid, ip, content_type, body, payload_offset);
}

1.121 python-cffi 1.11.5 r0

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1.122 python-setuptools 40.0.0 r0

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1.123 glibc 2.28 r0
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From 18fe4a6172c58fe863fe388745c78ec642c2c6fc Mon Sep 17 00:00:00 2001
From: Serhii Popovych <spopovyc@cisco.com>
Date: Fri, 23 Sep 2016 23:00:43 -0700
Subject: [PATCH] glibc: Do not build BSD kernels compatibility functions

They are failing stubs anyway and may cause various
build time issues (e.g. libopenbsd-compat.so from
bins/contrib/openssh linking failures due to
multiple setlogin() definitions).

Following functions are not in glibc with this patch:

chflags
fchflags
lchmod
revoke
setlogin

Signed-off-by: Serhii Popovych <spopovyc@cisco.com>

---
io/Makefile   | 2 +- 
login/Makefile | 2 +- 
misc/Makefile  | 3 +++
3 files changed, 3 insertions(+), 4 deletions(-)

diff --git a/io/Makefile b/io/Makefile
index ec5c6d7a2fb8..fc062296a560 100644
--- a/io/Makefile
+++ b/io/Makefile
@@ -36,7 +36,7 @@ routines :=
fstatat fxstatat64		
statfs fstatfs statfs64 fstatfs64		
statvfs fstatvfs statvfs64 fstatvfs64		
-umask chmod fchmod lchmod fchmodat		
+umask chmod fchmod fchmodat		
mkdir mkdirat		
open open_2 open64 open64_2 openat openat_2 openat64 openat64_2\
read write lseek lseek64 access euidaccess faccessat\
diff --git a/login/Makefile b/login/Makefile
index 8b31991be835..2cd1384c6e01 100644
--- a/login/Makefile
+++ b/login/Makefile
@@ -25,7 +25,7 @@ routines :=
headers:= utmp.h bits/utmp.h lastlog.h pty.h
1.124 berkeley-db 5.3.28 r1

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1.125 python-iso8601 0.1.12 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.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
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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
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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1.129 libpcre 8.42 r0

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THE BASIC LIBRARY FUNCTIONS

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1.130 shadow-sysroot 4.6 r3

1.131 libdaemon 0.14 r0
1.131.1 Available under 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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1.134 python3-pyyaml 3.13 r0

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1.135 rdma-core 18.4 r0

1.136 protobuf 3.6.1 r0
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* 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).
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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
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* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* 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 xIC compiler build issues
* Added atomicops for AIX (POWER)

1.137 python 3.5.6 r1.0
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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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History and License

History of the software

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

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

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

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Mersenne Twister
----------------

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

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

   Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `mod:` socket` module uses the functions, `func:` getaddrinfo`, and
`func:` getnameinfo`, which are coded in separate source files from the WIDE

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

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

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
  Samuel Neves (supercop/crypto_auth/siphash24/little)
strtod and dtoa

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

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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zlib
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cfuhash
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The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

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
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., 59 Temple Place, Suite 330, Boston, MA 02111-1307 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) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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Also note that the only valid version of the GPL as far as the kernel is concerned is _this_ particular version of the license (ie v2, not v2.2 or v3.x or whatever), unless explicitly otherwise stated.

Linus Torvalds

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Version 2, June 1991

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Preamble

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

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

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

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whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
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when run, you must cause it, when started running for such
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announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
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does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

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identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
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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
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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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NOT PROVIDED

1.141 gnome-desktop-testing 2014.1 r1

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

Preamble

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

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

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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.

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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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   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.

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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
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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
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Polly is developed by a team of students supported by different universities.

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<p>Raghesh works on OpenMP code generation. He is funded as Google Summer of Code Student 2011.</p>

<h3>Johannes Doerfert</h3>
<p>Johannes works on Polly as part of his PhD research at Saarland University in Germany.</p>

<h3>Tobias Grosser</h3>
<p>Tobias is one of the two Co-founders of Polly. He designed the overall architecture and contributed to almost every part of Polly. Polly was started during his diploma studies at University of Passau. Furthermore, he spent 6 months at Ohio State University (funded by the U.S. National Science Foundation through awards 0811781 and 0926688). From August 2011 he works on Polly, during his PhD with INRIA/UMPC/ENS (funded through a Google Europe Fellowship in Efficient Computing). </p>

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Website: <a href="http://www.infosun.fim.uni-passau.de/cl/staff/simbuerger/">http://www.infosun.fim.uni-passau.de/cl/staff/simbuerger/</a>

<h3>Hongbin Zheng</h3>

Hongbin Zheng is one of the two Co-founders of Polly. He was funded as a Google Summer of Code Student 2010 and implemented parts of the Polly frontends as well as the automake/cmake infrastructure.

<h2>Universities</h2>

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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.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" }  
; 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:  
; 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, 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

---

Open Source Used In Cisco ASR 900 Route Switch Processor 17.6.1 1684
; 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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<tbody>
<tr>
<td>&lt;none yet&gt;</td>
<td></td>
</tr>
</tbody>
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// RUN: %clang_cc1 -fsyntax-only -verify -pedantic %s

@protocol NSObject
@end
@interface NSObject <NSObject> {
}
@end
@interface NSString : NSObject
@end

void __setRetained(id *ivar, id value, NSObject **o) {
    *ivar = value;
}
static NSString *_logProcessPrefix = 0;
void func() {
    __setRetained(&_logProcessPrefix, _logProcessPrefix, &_logProcessPrefix);
}
@interface NSObject (ScopeAdditions)
+ (void)setObjectLogProcessPrefix:(NSString *)processPrefix {
    __setRetained(&_logProcessPrefix, processPrefix, &_logProcessPrefix);
}
@end

@class Derived;

NSObject *ExternFunc (NSObject *filePath, NSObject *key);
typedef id FuncSignature (NSObject *arg1, Derived *arg2);

@protocol NSCopying @end
@interface I
- (void) Meth : (id <NSCopying>)aKey; // expected-note {{passing argument to parameter 'aKey' here}}
@end

@class ForwarClass; // expected-note 3 {{conformance of forward class ForwarClass to protocol NSCopying can not be confirmed}}

ForwarClass *Test10751015 (I* pi, ForwarClass *ns_forward) {
    [pi Meth : ns_forward ]; // expected-warning {{sending 'ForwarClass *' to parameter of incompatible type 'id<NSCopying>'}}
    id <NSCopying> id_ns = ns_forward; // expected-warning {{initializing 'id<NSCopying>' with an expression of incompatible type 'ForwarClass *'}}
    return id_ns; // expected-warning {{returning 'id<NSCopying>' from a function with incompatible result type 'ForwarClass *'}}
}

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#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>
#if (__GLIBC__ > 2) || (__GLIBC__ == 2 && __GLIBC_MINOR__ >= 1)
#include <netax25/ax25.h>
#else
#include <linux/ax25.h>
#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] == ' ')
   break;
  }

 return buff;
}
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);
            ifndef DEBUG
            ”
            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);
}
/* 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
", netrom_errmsg);
    else
        fprintf(stderr, "%s: %s
", 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);
}

#if 0
/* Set the line discipline of a terminal line. */
static int KISS_set_disc(int fd, int disc)
{
    if (ioctl(fd, TIOCSETD, &disc) < 0) {
        fprintf(stderr, "KISS_set_disc(%d): %s\n", disc, strerror(errno));
        return (-errno);
    }
    return (0);
}
#endif

/* 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			/* HAVE_AFNETROM */

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 */

NOT PROVIDED
1.149 xinetd 2.3.15 r2

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

<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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., 675 Mass Ave, Cambridge, MA 02139, 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) 19yy 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 Library General Public License instead of this License.

1.159 libnss-nisplus 1.3 r0

1.160 numactl 2.0.12 r0

1.161 procps 3.3.15 r0
1.161.1 Available under license:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

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Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

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

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

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

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, 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 redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

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 Program or any portion of it, thus forming a work based on the Program, 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) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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

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10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

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

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

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

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.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
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 library GPL. It is
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 Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

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

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

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

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

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

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

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

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

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

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

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

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contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

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

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

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

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

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

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signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
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That's all there is to it!
/* Native-dependent code for modern AMD64 BSD's.

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#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#endif
#include "x86-bsd-nat.h"

/* Helper functions. See definitions. */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
    int regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache,
    int regnum);

/* A prototype *BSD/AMD64 target. */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
    public:
        void fetch_registers (struct regcache *regcache, int regnum) override
        { amd64bsd_fetch_inferior_registers (regcache, regnum); }
        void store_registers (struct regcache *regcache, int regnum) override
        { amd64bsd_store_inferior_registers (regcache, regnum); }

    void fetch_registers (struct regcache *regcache, int regnum) override
    { amd64bsd_fetch_inferior_registers (regcache, regnum); }
    void store_registers (struct regcache *regcache, int regnum) override
    { amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
BEGIN[
    FS="\"",
    print "/* ==> Do not modify this file!!  " \
    "*- buffer-read-only: t -* vi " \
    ":set ro;",
    print "   It is created automatically by copying.awk."
    print "   Modify copying.awk instead. <= *f;",
    print "="
    print "#include \"defs.h\"
    print "#include \"command.h\"
    print "#include \"gdbcmd.h\"
    print "="
    print "static void show_copying_command (const char *ignore, int);
    print "="
    print "static void show_warranty_command (const char *, int);
    print "="
    print "static void show_copying_command (const char *ignore, int from_tty);",
    print "="
    NR == 1;/^[ \t]*15. Disclaimer of Warranty. \[ ]*$/
    if ($0 ~ //)
        { printf " printf_filtered ("\n\"\n\")\n"
    } else if ($0 !~ /^[ ]*15. Disclaimer of Warranty\[ ]*$/)
{
  printf "  printf_filtered (";
  for (i = 1; i < NF; i++)
      printf "%s\"", $i;
  printf "%s
\n"", $NF;
}

/^[ ]*15. Disclaimer of Warranty\.[ ]*$/
    print "};"
    print "";
    print "static void";
    print "show_warranty_command (const char *ignore, int from_tty)";
    print "\{";"
}
/^[ ]*15. Disclaimer of Warranty\.[ ]*$/ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/
    if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
    {
      printf "  printf_filtered (";
      for (i = 1; i < NF; i++)
          printf "%s\"", $i;
      printf "%s\n\n"", $NF;
    }
}
END
    print "};"
    print "";
    print "void"
    print "_initialize_copying (void)";
    print "\{";"
    print " add_cmd ("copying\", no_set_class, show_copying_command.,";
    print " _\("Conditions for redistributing copies of GDB."),";
    print " &showlist),";"
    print " add_cmd ("warranty\", no_set_class, show_warranty_command,";
    print " _\("Various kinds of warranty you do not have."),";
    print " &showlist),";"
    print "\";
    print " /* For old-timers, allow \"info copying\", etc. */";
    print " add_info ("copying\", show_copying_command,\";
    print " _\("Conditions for redistributing copies of GDB.\")\");";
    print " add_info ("warranty\", show_warranty_command,\";
    print " _\("Various kinds of warranty you do not have.\")\");";
    print "}\";"
}
/* BSD Kernel Data Access Library (libkvm) interface.*/

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#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmnds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "value.h"
#include "gdbcore.h" /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;
/* Pointer to architecture-specific function that reconstructs the register state from PCB and supplies it to REGCACHE. */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm. The kvm target currently doesn't export any view of the running processes, so this represents the kernel task. */
static ptid_t bsd_kvm_ptid;

/* The libkvm target. */

static const target_info bsd_kvm_target_info = {
  "kvm",
  N_("Kernel memory interface"),
  N_("Use a kernel virtual memory image as a target.\n\nOptionally specify the filename of a core dump."")
};

class bsd_kvm_target final : public target_ops
{
public:
  bsd_kvm_target ()
  { this->to_stratum = process_stratum; }

  const target_info &info () const override
  { return bsd_kvm_target_info; }

  void close () override;

  void fetch_registers (struct regcache *, int) override;

  enum target_xfer_status xfer_partial (enum target_object object, const char *annex, gdb_byte *readbuf, const gdb_byte *writebuf, ULONGEST offset, ULONGEST len, ULONGEST *xfered_len) override;

  void files_info () override;

  bool thread_alive (ptid_t ptid) override;

  const char *pid_to_str (ptid_t) override;

  bool has_memory () override { return true; }

  bool has_stack () override { return true; }

  bool has_registers () override { return true; }
};

/* Target ops for libkvm interface. */
static bsd_kvm_target bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
    char errbuf[_POSIX2_LINE_MAX];
    char *execfile = NULL;
    kvm_t *temp_kd;
    char *filename = NULL;

target_preopen (from_tty);

    if (arg)
    {
        char *temp;

        filename = tilde_expand (arg);
        if (filename[0] != '/')
        {
            temp = concat (current_directory, "/", filename, (char *)NULL);
            xfree (filename);
            filename = temp;
        }
    }
    execfile = get_exec_file (0);
    temp_kd = kvm_openfiles (execfile, filename, NULL,
                        write_files ? O_RDWR : O_RDONLY, errbuf);
    if (temp_kd == NULL)
        error ("%s"), errbuf);

    bsd_kvm_corefile = filename;
    unpush_target (&bsd_kvm_ops);
    core_kd = temp_kd;
    push_target (&bsd_kvm_ops);

    add_thread_silent (bsd_kvm_ptid);
    inferior_ptid = bsd_kvm_ptid;

    target_fetch_registers (get_current_regcache (), -1);

    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
if (core_kd)
{
    if (kvm_close (core_kd) == -1)
        warning (("%s"), kvm_geterr(core_kd));
    core_kd = NULL;
}

inferior_ptid = null_ptid;
discard_all_inferiors();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
    gdb_byte *readbuf, const gdb_byte *writebuf)
{
    ssize_t nbytes = len;

    if (readbuf)
        nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
    if (writebuf && nbytes > 0)
        nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
    return nbytes;
}

default:
{ enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
    const char *annex, gdb_byte *readbuf,
    const gdb_byte *writebuf,
    ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
    switch (object)
    {
        case TARGET_OBJECT_MEMORY:
        {
            LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

            if (ret < 0)
                return TARGET_XFER_E_IO;
            else if (ret == 0)
                return TARGET_XFER_EOF;
            else
                {
                    *xfered_len = (ULONGEST) ret;
                    return TARGET_XFER_OK;
                }
        }
    }
default:
return TARGET_XFER_E_IO;
}

void
bsd_kvm_target::files_info ()
{
if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
    printf_filtered (_("Using the kernel crash dump %s\n"),
        bsd_kvm_corefile);
else
    printf_filtered (_("Using the currently running kernel\n"));
}

/* Fetch process control block at address PADDR. */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
    struct pcb pcb;

    if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
        error ("%s"), kvm_geterr (core_kd));

    gdb_assert (bsd_kvm_supply_pcb);
    return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
    struct nlist nl[2];

    if (bsd_kvm_paddr)
    {
        bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
        return;
    }

    /* On dumping core, BSD kernels store the faulting context (PCB)
       in the variable "dumppcb". */
    memset (nl, 0, sizeof nl);
    nl[0].n_name = ".dumppcb";

    if (kvm_nlist (core_kd, nl) == -1)
        error ("%s"), kvm_geterr (core_kd));

    if (nl[0].n_value != 0)
{ /* Found dumppcb. If it contains a valid context, return 
immediately. */
    if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
        return;
}

/* Traditional BSD kernels have a process proc0 that should always 
be present. The address of proc0's PCB is stored in the variable 
"proc0paddr". */
memset (nl, 0, sizeof nl);
nl[0].n_name = "proc0paddr";

if (kvm_nlist (core_kd, nl) == -1)
    error (("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
    {
        struct pcb *paddr;

        /* Found proc0paddr. */
        if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
            error (("%s"), kvm_geterr (core_kd));

        bsd_kvm_fetch_pcb (regcache, paddr);
        return;
    }

#ifdef HAVE_STRUCT_THREAD_TD_PCB
/* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer 
lives in `struct proc' but in `struct thread'. The `struct 
thread' for the initial thread for proc0 can be found in the 
variable "thread0". */
memset (nl, 0, sizeof nl);
nl[0].n_name = "thread0";

if (kvm_nlist (core_kd, nl) == -1)
    error (("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
    {
        struct pcb *paddr;

        /* Found thread0. */
        nl[0].n_value += offsetof (struct thread, td_pcb);
        if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
            error (("%s"), kvm_geterr (core_kd));

        return;
    }
#endif
error ("%s"), kvm_geterr (core_kd));

        bsd_kvm_fetch_pcb (regcache, paddr);
        return;
    }
#undef

/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));
}

/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
    /* ??? Should this become an alias for "target kvm"? */
}
#endif
#ifdef HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
    CORE_ADDR addr;

    if (arg == NULL)
        error_no_arg (_("proc address"));

    if (core_kd == NULL)
        error (_("No kernel memory image."));

    addr = parse_and_eval_address (arg);
    #ifdef HAVE_STRUCT_LWP
    addr += offsetof (struct lwp, l_addr);
    #else
    addr += offsetof (struct proc, p_addr);
    #endif

    if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
        error ("%s"), kvm_geterr (core_kd));

    target_fetch_registers (get_current_regcache (), -1);
    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
    if (arg == NULL)
        /* i18n: PCB == "Process Control Block". */
        error_no_arg (_("pcb address"));

    if (core_kd == NULL)
        error (_("No kernel memory image."));

    bsd_kvm_paddr = (struct pcb *)(u_long) parse_and_eval_address (arg);

    target_fetch_registers (get_current_regcache (), -1);

    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
    return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
    static char buf[64];
    xsnprintf (buf, sizeof buf, "<kvm>");  // Assuming the function to return a string is intended
    return buf;
}

/* Add the libkvm interface to the list of all possible targets and
 register CUPPLY_PCB as the architecture-specific process control
 block interpreter. */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
    gdb_assert (bsd_kvm_supply_pcb == NULL);
    bsd_kvm_supply_pcb = supply_pcb;

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);
add_prefix_cmd("kvm", class_obscure, bsd_kvm_cmd, 
   "(_("Generic command for manipulating the kernel memory interface.")", 
   &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifndef HAVE_STRUCT_THREAD_TD_PCB
add_cmd("proc", class_obscure, bsd_kvm_proc_cmd, 
   "(_("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
add_cmd("pcb", class_obscure, bsd_kvm_pcb_cmd, 
   "(_("Set current context from pcb address"), &bsd_kvm_cmdlist);

/* Some notes on the ptid usage on this target.

The pid field represents the kvm inferior instance. Currently, we don't support multiple kvm inferiors, but we start at 1 anyway. The lwp field is set to != 0, in case the core wants to refer to the whole kvm inferior with ptid(1,0,0).

If kvm is made to export running processes as gdb threads, the following form can be used:
ptid (1, 1, 0) -> kvm inferior 1, in kernel
ptid (1, 1, 1) -> kvm inferior 1, process 1
ptid (1, 1, 2) -> kvm inferior 1, process 2
ptid (1, 1, n) -> kvm inferior 1, process n */

bsd_kvm_ptid = ptid_t (1, 1, 0);
}
/* Native-dependent code for x86 BSD's.

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#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info. */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target. */

template<typename BaseTarget>
class x86bsd_nat_target : public x86_nat_target<BaseTarget>
{
    using base_class = x86_nat_target<BaseTarget>;

    public:
    #ifdef HAVE_PT_GETDBREGS
    void mourn_inferior () override
    {
        x86_cleanup_dregs ();
        base_class::mourn_inferior ();
    }
    #endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */

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#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache, int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache, int regnum);

/* A prototype *BSD/i386 target. */
template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
void fetch_registers (struct regcache *regcache, int regnum) override {
i386bsd_fetch_inferior_registers (regcache, regnum);
}

void store_registers (struct regcache *regcache, int regnum) override {
i386bsd_store_inferior_registers (regcache, regnum);
}
};

#endif /* i386-bsd-nat.h */

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Version 2, June 1991

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

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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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<one line to give the library's name and a brief idea of what it does.>  
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

#!/usr/bin/env python

# Copyright (C) 2011-2018 Free Software Foundation, Inc.
#
This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

---

import datetime
import os
import os.path
import subprocess

def get_update_list():
    ""
    Return the list of files to update.
    ""
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in EXCLUDE_LIST

---
or reldirname in NOT_FSF_LIST
or reldirname in BY_HAND):
    # Prune this directory from our search list.
dirs.remove(dirname)
for filename in files:
    relpath = "%s/%s" % (root, filename)
    if (filename in EXCLUDE_ALL_LIST
        or relpath in EXCLUDE_LIST
        or relpath in NOT_FSF_LIST
        or relpath in BY_HAND):
        # Ignore this file.
pass
    else:
        result.append(relpath)
return result

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

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)
for line in update_out:
    if line.endswith(\'\n\'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

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

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

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

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

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

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

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

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

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

############################################################################
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
############################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
    'gdb/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnulib/import'
)

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

"COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
"fdl.texi", "gpl.texi", "aclocal.m4",
)

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

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

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

if __name__ == "__main__":
    main()

1.165 selinux-sandbox 2.8 r0
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1.166 libffi 3.2.1 r0

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1.167 libmnl 1.0.4 r0

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

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

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb56.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
<!-.-.

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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
<xsl:param name="text"/>
<xsl:value-of select="$isc.copyright.leader"/>
<xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
<xsl:text>&#10;</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
<xsl:if test="translate($rest, '&#9;&#32;', '')">
<xsl:call-template name="isc.copyright.format">
<xsl:with-param name="text" select="$rest"/>
</xsl:call-template>
</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
<xsl:text>
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</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
<xsl:call-template name="isc.copyright.format">
<xsl:with-param name="text">
<xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
<xsl:text>Copyright (C)</xsl:text>
</xsl:for-each>
</xsl:with-param name="years" select="year"/>
</xsl:call-template>

<xsl:text> </xsl:text>
<xsl:value-of select="holder"/>
<xsl:value-of select="$isc.copyright.breakline"/>
</xsl:variable>
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1.174 unzip 6.0 r5

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* Basic encoding and decoding of Macintosh files to the
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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."

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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 others. See the file CONTRIBUTES in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.175 python-six 1.11.0 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
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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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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
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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**1.182 python-pygobject 3.28.3 r0**

**1.182.1 Available under 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
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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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1.187 nfs-utils 2.3.1 r0

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1.196 go-context git r0

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1.197 libopflex beryllium-sr1 r0

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1.198 keyutils 1.5.10 r0
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set xtics rotate by -45
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#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

/* nicstar.c v0.22 Jawaid 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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- for the initial saa7146 driver and its recent overhaul

- Christian Theiss

- for his work on the initial Linux DVB driver

- Marcus Metzler <mocm@metzlerbros.de> and Ralph Metzler <rjkm@metzlerbros.de>

- for their continuing work on the DVB driver
- Michael Holzt <kju@debian.org>

- for his contributions to the dvb-net driver

- Diego Picciani <d.picciani@novacomp.it>

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

- Martin Schaller <martin@smurf.franken.de>

- for patching the cable card decoder driver

- Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>

- for various fixes regarding tuning, OSD and CI stuff and his work on VDR

- Steve Brown <sbrown@tortland.com>

- for his AFC kernel thread

- Christoph Martin <martin@uni-mainz.de>

- for his LIRC infrared handler

- Andreas Oberritter <obi@linuxtv.org>,
  Dennis Noermann <dennis.noermann@noernet.de>,
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  Ronny Strutz <3des@elitedvb.de>,
  Wolfram Joost <dbox2@froschwei.de>
  and all the other dbox2 people

- for many bugfixes in the generic DVB Core, frontend drivers and
  their work on the dbox2 port of the DVB driver

- Oliver Endriss <o.endriss@gmx.de>

- for many bugfixes

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- for the tda1004x frontend driver, and various bugfixes

- Peter Schildmann <peter.schildmann@web.de>

- for the driver for the Technisat SkyStar2 PCI DVB card
- Vadim Catana <skystar@moldova.cc>, Roberto Ragusa <r.ragusa@libero.it> and Augusto Cardoso <augusto@carhil.net>

- for all the work for the FlexCopII chipset by B2C2, Inc.

- Davor Emard <emard@softhome.net>

- for his work on the budget drivers, the demux code, the module unloading problems, ...

- Hans-Frieder Vogt <hfvogt@arcor.de>

- for his work on calculating and checking the crc's for the TechnoTrend/Hauppauge DEC driver firmware

- Michael Dreher <michael@5dot1.de> and Andreas 'randy' Weinberger

- for the support of the Fujitsu-Siemens Activy budget DVB-S

- Kenneth Aafly <ke-aa@frisurf.no>

- for adding support for Typhoon DVB-S budget card

- Ernst Peinlich <e.peinlich@inode.at>

- for tuning/DiSEqC support for the DEC 3000-s

- Peter Beutner <p.beutner@gmx.net>

- for the IR code for the ttusb-dec driver

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- for the lgdt330x frontend driver, and various bugfixes

- Michael Krufky <mkrufty@linuxtv.org>

- for maintaining v4l/dvb inter-tree dependencies

- Taylor Jacob <rtjacob@earthlink.net>

- for the nxt2002 frontend driver

- Jean-Francois Thibert <jeanfrancois@sagetv.com>
- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
  single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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1.206 go-connections 0.2.1 r0

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1.213 linux-kernel 4.4.206
ecd55191157e475e8734486ff3eb606cafe3ae27

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customarily used for software interchange; or,

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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
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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.

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

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

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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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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.

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END OF TERMS AND CONDITIONS

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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
        || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

/* nicstar.c  v0.22  Jawaid 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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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@linuxtv.org>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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1.214 shadow-securetty 4.6 r3

1.215 nspr 4.19 r0

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1.216 python-py 1.6.0 r0

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1.217 base-files 3.0.14 r89

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Version 2, June 1991

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1.221 lxc 3.1.0 r0

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*/

#include "lxclxclock.h"
#include "config.h"
#include <unistd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <stdlib.h>

#define mycontainername "lxctest.sem"
#define TIMEOUT_SECS 3

static void test_two_locks(void)
{
    struct lxc_lock *l;
    pid_t pid;
    int ret, status;
    int p[2];
    char c;

    if (pipe(p) < 0)
        exit(1);

    if ((pid = fork()) < 0)
        exit(1);

    if (pid == 0) {

if (read(p[0], &c, 1) < 0) {
    perror("read");
    exit(1);
}

l = lxc_newlock("/tmp", "lxctest-sem");
if (!l) {
    fprintf(stderr, "%d: child: failed to create lock\n", __LINE__);
    exit(1);
}

if (lxclock(l, 0) < 0) {
    fprintf(stderr, "%d: child: failed to grab lock\n", __LINE__);
    exit(1);
}

fprintf(stderr, "%d: child: grabbed lock\n", __LINE__);
exit(0);

l = lxc_newlock("/tmp", "lxctest-sem");
if (!l) {
    fprintf(stderr, "%d: failed to create lock\n", __LINE__);
    exit(1);
}

if (lxclock(l, 0) < 0) {
    fprintf(stderr, "%d: child: failed to grab lock\n", __LINE__);
    exit(1);
}

fprintf(stderr, "%d: child: grabbed lock\n", __LINE__);
exit(0);

l = lxc_newlock("/tmp", "lxctest-sem");
if (!l) {
    fprintf(stderr, "%d: failed to create lock\n", __LINE__);
    exit(1);
}

if (lxclock(l, 0) < 0) {
    fprintf(stderr, "%d: failed to get lock\n", __LINE__);
    exit(1);
}

if (write(p[1], "a", 1) < 0) {
    perror("write");
    exit(1);
}

sleep(3);

ret = waitpid(pid, &status, WNOHANG);
if (ret == pid) { // task exited
    if (WIFEXITED(status)) {
        printf("%d exited normally with exit code %d\n", pid,
                WEXITSTATUS(status));
        if (WEXITSTATUS(status) != 0)
            exit(1);
    } else
        printf("%d did not exit normally\n", pid);
    return;
}
} else if (ret < 0) {
    perror("waitpid");
    exit(1);
}

kill(pid, SIGKILL);
wait(&status);
close(p[1]);
close(p[0]);
lxcunlock(l);
lxc_putlock(l);

int main(int argc, char *argv[]) {

    int ret;
    struct lxc_lock *lock;

    lock = lxc_newlock(NULL, NULL);
    if (!lock) {
        fprintf(stderr, "%d: failed to get unnamed lock\n", __LINE__);
        exit(1);
    }

    ret = lxclock(lock, 0);
    if (ret) {
        fprintf(stderr, "%d: failed to take unnamed lock (%d)\n", __LINE__, ret);
        exit(1);
    }

    ret = lxcunlock(lock);
    if (ret) {
        fprintf(stderr, "%d: failed to put unnamed lock (%d)\n", __LINE__, ret);
        exit(1);
    }
    lxc_putlock(lock);

    lock = lxc_newlock("/var/lib/lxc", mycontainername);
    if (!lock) {
        fprintf(stderr, "%d: failed to get lock\n", __LINE__);
        exit(1);
    }

    struct stat sb;
    char *pathname = RUNTIME_PATH "/lxc/lock/var/lib/lxc/";

    ret = stat(pathname, &sb);
    if (ret != 0) {
fprintf(stderr, "\%d: filename \%s not created\n", __LINE__,
pathname);
exit(1);
}
lxc_putlock(lock);

test_two_locks();

fprintf(stderr, "all tests passed\n");

exit(ret);
}
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1.223 python-greenlet 0.4.14 r0

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StartChar: copyright
Encoding: 169 169 102
GlfName: copyright
Width: 862
Flags: HMW
LayerCount: 2
Back
SplineSet
441 156 m 0
335 156 273 218 273 327 c 0
273 382 287 427 315 462 c 0
344 498 390 515 452 515 c 0
480 515 510 508 541 494 c 1
526 452 l 1
499 462 473 466 450 466 c 0
371 466 330 420 330 339 c 0
330 253 372 203 458 203 c 0
478 203 499 207 522 215 c 1
537 175 l 1
504 162 472 156 441 156 c 0
430 609 m 0
347 609 276 572 231 529 c 0
186 485 148 416 148 333 c 0
148 251 186 181 231 138 c 0
276 94 347 58 430 58 c 0
513 583 95 628 138 c 0
673 181 711 251 711 333 c 0
711 416 673 485 628 529 c 0
583 573 513 609 430 609 c 0
428 674 m 0
530 674 618 630 673 576 c 0
729 522 776 436 776 333 c 0
776 231 730 146 674 92 c 0
618 38 532 -7 430 -7 c 0
327 -7 242 38 186 92 c 0
130 146 83 230 83 333 c 0
83 435 129 521 185 575 c 0
240 629 327 674 428 674 c 0
EndSplineSet
Fore
SplineSet
70 344 m 3
70 561 215 706 432 706 c 3
648 706 792 560 792 344 c 3
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1.245 libcroco 0.6.12 r0

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1.246 python-pluggy 0.6.0 r0

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Mersenne Twister

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

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

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

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

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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
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The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

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

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

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

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zlib
----

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

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

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

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## 1.263 e2fsprogs

### 1.42.99+1.43+gitAUTOINC+0f26747167 r0

### 1.263.1 Available under license:

Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
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 command-line interface parsing library. It is currently
 distributed together with the EXT2 file system utilities, which are
 otherwise packaged as "e2fsprogs".

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

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Theodore Ts'o
23-June-2007

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1.273 pps-tools 1.0.2 r0

1.274 python3-pyudev 0.21.0 r0
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1.277 go-dbus 4.0.0 r0

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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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#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
    * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
    *
    * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
    * http://www.hypermall.com/
    * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
    * interrupts us (except possibly for removal/insertion of the cable?)
    * 10/4/97 - began heavy inline documentation of the code. Corrected typos
    * and spelling mistakes.
    * 10/5/97 - added code to handle PHY interrupts, disable PHY on
    * loss of link, and correctly re-enable PHY when link is
    * re-established. (put back CFG_PHYIE)
    *
    * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
    *
    * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* Linux driver for the IDT77201 NICSTAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
  * 1) skb->destructor / skb->atm.recycle_buffer
     combined, allow nicstar_free_rx_skb to be called to
     recycle large data buffers
  * 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
details.
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
* *
*/

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

.. note::

This documentation is outdated. There are several other DVB contributors
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Thanks go to the following people for patches and contributions:

- Michael Hunold <m.hunold@gmx.de>

- for the initial saa7146 driver and its recent overhaul

- Christian Theiss

- for his work on the initial Linux DVB driver

- Marcus Metzler <mocm@metzlerbros.de> and Ralph Metzler <rjkm@metzlerbros.de>

- for their continuing work on the DVB driver

- Michael Holzt <kju@debian.org>

- for his contributions to the dvb-net driver

- Diego Picciani <d.picciani@novacomp.it>

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

- Martin Schaller <martin@smurf.franken.de>

- for patching the cable card decoder driver

- Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>

- for various fixes regarding tuning, OSD and CI stuff and his work on VDR

- Steve Brown <sbrown@cortland.com>

- for his AFC kernel thread

- Christoph Martin <martin@uni-mainz.de>

- for his LIRC infrared handler

- Andreas Oberritter <obi@linuxtv.org>,
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Felix Domke <tmbinc@elitedvb.net>,
Florian Schirmer <jolt@tuxbox.org>,
Ronny Strutz <3des@elitedvb.de>,
Wolfram Joost <dbox2@frokaschwei.de>
and all the other dbox2 people

- for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

- Oliver Endriss <o.endriss@gmx.de>

- for many bugfixes

- Andrew de Quincey <adq_dvb@lidskialf.net>

- for the tda1004x frontend driver, and various bugfixes

- Peter Schildmann <peter.schildmann@web.de>

- for the driver for the Technisat SkyStar2 PCI DVB card

- Vadim Catana <skystar@moldova.cc>,
  Roberto Ragusa <r.ragusa@libero.it> and
  Augusto Cardoso <augusto@carhil.net>

- for all the work for the FlexCopII chipset by B2C2,Inc.

- Davor Emard <emard@softhome.net>

- for his work on the budget drivers, the demux code,
  the module unloading problems, ...

- Hans-Frieder Vogt <hfvogt@arcor.de>

- for his work on calculating and checking the crc's for the
  TechnoTrend/Hauppauge DEC driver firmware

- Michael Dreher <michael@5dot1.de> and
  Andreas 'randy' Weinberger

- for the support of the Fujitsu-Siemens Activity budget DVB-S

- Kenneth Aafly <ke-aa@frisurf.no>

- for adding support for Typhoon DVB-S budget card

- Ernst Peinlich <e.peinlich@inode.at>

- for tuning/DiSEqC support for the DEC 3000-s

- Peter Beutner <p.beutner@gmx.net>
- for the IR code for the ttusb-dec driver

- Wilson Michaels <wilsonmichaels@earthlink.net>

- for the lgdt330x frontend driver, and various bugfixes

- Michael Kruisky <mkrufky@linuxtv.org>

- for maintaining v4l/dvb inter-tree dependencies

- Taylor Jacob <rtjacob@earthlink.net>

- for the nxt2002 frontend driver

- Jean-Francois Thibert <jeanfrancois@sagetv.com>

- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
  single nxt200x frontend driver.

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-------------------------
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2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type:

- C source: // SPDX-License-Identifier: <SPDX License Expression>
- C header: /* SPDX-License-Identifier: <SPDX License Expression> */
- ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
- scripts: # SPDX-License-Identifier: <SPDX License Expression>
- .rst: .. SPDX-License-Identifier: <SPDX License Expression>
- .dts[i]: // SPDX-License-Identifier: <SPDX License Expression>

If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the "// */" style comment in C header files. There was build breakage observed with generated .lds files where `ld` failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

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License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option:

```
// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+
```

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression:

```
// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Other examples using WITH exceptions found in the kernel are:

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```
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// SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
// SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
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-------------------

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```plaintext
LICENSES/preferred/GPL-2.0
```

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```

Contains the MIT license text and the required metatags

`Metatags`:

The following meta tags must be available in a license file:

- **Valid-License-Identifier:**

  One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- **SPDX-URL:**

  The URL of the SPDX page which contains additional information related to the license.

- **Usage-Guidance:**

  Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- **License-Text:**

  All text after this tag is treated as the original license text

File format examples:

```plaintext
Valid-License-Identifier: GPL-2.0
Valid-License-Identifier: GPL-2.0+
SPDX-URL: https://spdx.org/licenses/GPL-2.0.html
Usage-Guide:
  To use this license in source code, put one of the following SPDX
```
tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.

For 'GNU General Public License (GPL) version 2 only' use:

   SPDX-License-Identifier: GPL-2.0

For 'GNU General Public License (GPL) version 2 or any later version' use:

   SPDX-License-Identifier: GPL-2.0+

License-Text:
   Full license text

::

   SPDX-License-Identifier: MIT
   SPDX-URL: https://spdx.org/licenses/MIT.html
   Usage-Guide:
   To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

   SPDX-License-Identifier: MIT
   License-Text:
   Full license text

2. Not recommended licenses:

   These licenses should only be used for existing code or for importing code from a different project. These licenses are available from the directory:

   LICENSES/other/

   in the kernel source tree.

   The files in this directory contain the full license text and `Metatags`. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

   Examples:

   LICENSES/other/ISC

   Contains the Internet Systems Consortium license text and the required metatags:

   LICENSES/other/ZLib

   Contains the ZLIB license text and the required metatags.
Metatags:

The metatag requirements for 'other' licenses are identical to the requirements of the 'Preferred licenses'.

File format example::

   Valid-License-Identifier: ISC
   SPDX-URL: https://spdx.org/licenses/ISC.html

Usage-Guide:

   Usage of this license in the kernel for new code is discouraged and it should solely be used for importing code from an already existing project.

   To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.
   SPDX-License-Identifier: ISC
   License-Text:
   Full license text

3. _'Exceptions':_

   Some licenses can be amended with exceptions which grant certain rights which the original license does not. These exceptions are available from the directory::

   LICENSES/exceptions/

   in the kernel source tree. The files in this directory contain the full exception text and the required 'Exception Metatags'.

Examples::

   LICENSES/exceptions/Linux-syscall-note

   Contains the Linux syscall exception as documented in the COPYING file of the Linux kernel, which is used for UAPI header files.
   e.g. A* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */:

   LICENSES/exceptions/GCC-exception-2.0

   Contains the GCC 'linking exception' which allows to link any binary independent of its license against the compiled version of a file marked with this exception. This is required for creating runnable executables from source code which is not compatible with the GPL.
`Exception Metatags`:

The following meta tags must be available in an exception file:

- SPDX-Exception-Identifier:

  One exception identifier which can be used with SPDX license identifiers.

- SPDX-URL:

  The URL of the SPDX page which contains additional information related to the exception.

- SPDX-Licenses:

  A comma separated list of SPDX license identifiers for which the exception can be used.

- Usage-Guidance:

  Freeform text for usage advice. The text must be followed by correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax` guidelines.

- Exception-Text:

  All text after this tag is treated as the original exception text

File format examples::

```
SPDX-Exception-Identifier: Linux-syscall-note
SPDX-URL: https:// SPDX License-Identifier: <SPDX-License> WITH Linux-syscall-note
```

SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+

Usage-Guidance:

This exception is used together with one of the above SPDX-Licenses to mark user-space API (uapi) header files so they can be included into non GPL compliant user-space application code.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

```
SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
```

Exception-Text:

Full exception text

::

```
SPDX-Exception-Identifier: GCC-exception-2.0
SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html
```
SPDX-Licenses: GPL-2.0, GPL-2.0+

Usage-Guidance:

The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0

Exception-Text:

Full exception text

All SPDX license identifiers and exceptions must have a corresponding file in the LICENSE subdirectories. This is required to allow tool verification (e.g. checkpatch.pl) and to have the licenses ready to read and extract right from the source, which is recommended by various FOSS organizations, e.g. the FSFE REUSE initiative <https://reuse.software/>.

Valid-License-Identifier: LGPL-2.0
Valid-License-Identifier: LGPL-2.0+
SPDX-URL: https://spdx.org/licenses/LGPL-2.0.html

Usage-Guide:

To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.

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SPDX-License-Identifier: LGPL-2.0

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Version 2, June 1991

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

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Version 3, 29 June 2007

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* 
*      @(#)mman.h      8.2 (Berkeley) 1/9/95
* /

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7

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* /

#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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/* */
/* @(#{)mman.h 8.1 (Berkeley) 6/2/93 */
*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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/*      $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $   */
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# define TARGET_EPERM 1 /* Operation not permitted */
# define TARGET_ENOENT 2 /* No such file or directory */
# define TARGET_ESRCH 3 /* No such process */
# define TARGET_EINTR 4 /* Interrupted system call */
# define TARGET_EIO 5 /* Input/output error */
# define TARGET_ENXIO 6 /* Device not configured */
# define TARGET_E2BIG 7 /* Argument list too long */
# define TARGET_ENOEXEC 8 /* Exec format error */
# define TARGET_EBADF 9 /* Bad file descriptor */
# define TARGET_ECHILD 10 /* No child processes */
# define TARGET_EDEADLK 11 /* Resource deadlock avoided */

  /* 11 was EAGAIN */

# define TARGET_ENOMEM 12 /* Cannot allocate memory */
# define TARGET_EACCES 13 /* Permission denied */
# define TARGET_EFAULT 14 /* Bad address */
# define TARGET_ENOTBLK 15 /* Block device required */
# define TARGET_EBUSY 16 /* Device busy */
# define TARGET_EEXIST 17 /* File exists */
# define TARGET_EXDEV 18 /* Cross-device link */
# define TARGET_ENODEV 19 /* Operation not supported by device */
# define TARGET_ENOTDIR 20 /* Not a directory */
# define TARGET_EISDIR 21 /* Is a directory */
# define TARGET EINVAL 22 /* Invalid argument */
# define TARGET_ENFILE 23 /* Too many open files in system */
# define TARGET_EMFILE 24 /* Too many open files */
# define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
# define TARGET_ETXTBSY 26 /* File too busy */
# define TARGET_EFBIG 27 /* File too large */
# define TARGET_ENOSPC 28 /* No space left on device */
# define TARGET_ESPIPE 29 /* Illegal seek */
# define TARGET_EROFS 30 /* Read-only file system */
# define TARGET_EMLINK 31 /* Too many links */
# define TARGET_EPIPE 32 /* Broken pipe */

  /* math software */

# define TARGET_EDOM 33 /* Numerical argument out of domain */
# define TARGET_ERANGE 34 /* Result too large */

  /* non-blocking and interrupt i/o */

# define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
# define TARGET_EWOULDDBLOCK  EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36    /* Operation now in progress */
#define TARGET_EALREADY 37        /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38        /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39     /* Destination address required */
#define TARGET_EMSGSIZE 40         /* Message too long */
#define TARGET_EPROTOTYPE 41       /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42      /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43  /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44  /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45       /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46     /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47     /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48       /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49    /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50        /* Network is down */
#define TARGET_ENETUNREACH 51      /* Network is unreachable */
#define TARGET_ENETRESET 52        /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53     /* Software caused connection abort */
#define TARGET_ECONNRESET 54       /* Connection reset by peer */
#define TARGET_ENOBUFS 55          /* No buffer space available */
#define TARGET_EISCONN 56          /* Socket is already connected */
#define TARGET_ENOTCONN 57         /* Socket is not connected */
#define TARGET_ESHUTDOWN 58        /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59     /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60        /* Operation timed out */
#define TARGET_ECONNREFUSED 61     /* Connection refused */
#define TARGET_ELOOP 62            /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63     /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64        /* Host is down */
#define TARGET_EHOSTUNREACH 65      /* No route to host */
#define TARGET_ENOTEMPTY 66         /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67         /* Too many processes */
#define TARGET_EUSERS 68           /* Too many users */
#define TARGET_EDQUOT 69           /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70           /* Stale NFS file handle */
#define TARGET_EREMOTE 71          /* Too many levels of remote in path */
#define TARGET_EBADRPC 72          /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */

#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */

#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

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=======

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(%"_s", %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___sysct1, "__sysct1", NULL, print_sysct1, NULL },
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{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s("_s")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", 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 },
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{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s("%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, "%s",%#x,%#o)", NULL, NULL },
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{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s",%s")", NULL, NULL },
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{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalstack, "signalstack", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
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ifndef TOP
    TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
endif
export TOP
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
    SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)
all:
for subdir in $(SUBDIRS); do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS); do $(MAKE) -C $${subdir} $@; done

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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS=
ASFLAGS= -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I. -I./include -I./include/x86emu \
    -I$(TOP)/clients/net-snake/include -I$(ROOTDIR)/include \
    -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \
    -ffreestanding -Wall -Wno-unused

X86EMU_OBJCs= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@ $^ 

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^ 

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJCs)
$(AR) -rc $@
$(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a
distclean: clean
/*   $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp   */

/*   */
/*   */
/* System call numbers.   */
/*   */
/* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp   */

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NRUnmount     22
#define TARGET_OPENBSD_NR_setuid      23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeermask 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 62
#define TARGET_OPENBSD_NR_sbrk 63
#define TARGET_OPENBSD_NR_sstk 64
#define TARGET_OPENBSD_NR_munmap 65
#define TARGET_OPENBSD_NR_mprotect 66
#define TARGET_OPENBSD_NR_madvise 67
#define TARGET_OPENBSD_NR_mincore 68
#define TARGET_OPENBSD_NR_getgroups 69
#define TARGET_OPENBSD_NR_setgroups 70
#define TARGET_OPENBSD_NR_getpgrp 71
#define TARGET_OPENBSD_NR_setpgid 72
#define TARGET_OPENBSD_NR_setitimer 73
#define TARGET_OPENBSD_NR_getitimer 74
#define TARGET_OPENBSD_NR_dup2 75
#define TARGET_OPENBSD_NR_fcntl 76
#define TARGET_OPENBSD_NR_select 77
#define TARGET_OPENBSD_NR_fsync 78
#define TARGET_OPENBSD_NR_setpriority 79
#define TARGET_OPENBSD_NR_socket 80
#define TARGET_OPENBSD_NR_connect 81
#define TARGET_OPENBSD_NR_setsockopt 82
#define TARGET_OPENBSD_NR_listen 83
#define TARGET_OPENBSD_NR_getsockopt 84
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_settimeofday 123
#define TARGET_OPENBSD_NR_fchown 124
#define TARGET_OPENBSD_NR_fchmod 125
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 141
#define TARGET_OPENBSD_NR_quotactl 142
#define TARGET_OPENBSD_NR_nfssvc 143
#define TARGET_OPENBSD_NR_getfh 144
#define TARGET_OPENBSD_NR_sysarch 145
#define TARGET_OPENBSD_NR_pread 146
#define TARGET_OPENBSD_NR_pwrite 147
#define TARGET_OPENBSD_NR_setgid 148
#define TARGET_OPENBSD_NR_setegid 149
#define TARGET_OPENBSD_NR_seteuid 150
#define TARGET_OPENBSD_NR_lfs_bmapv 151
#define TARGET_OPENBSD_NR_lfs_markv 152
#define TARGET_OPENBSD_NR_lfs_segclean 153
#define TARGET_OPENBSD_NR_lfs_segwait 154
#define TARGET_OPENBSD_NR_pathconf 155
#define TARGET_OPENBSD_NR_fpathconf 156
#define TARGET_OPENBSD_NR_swapctl 157
#define TARGET_OPENBSD_NR_getrlimit 158
#define TARGET_OPENBSD_NR_setrlimit 159
#define TARGET_OPENBSD_NR_getdirentries 160
#define TARGET_OPENBSD_NR_mmap 161
#define TARGET_OPENBSD_NR___syscall 162
#define TARGET_OPENBSD_NR_lseek 163
#define TARGET_OPENBSD_NR_truncate 164
#define TARGET_OPENBSD_NR_ftruncate 165
#define TARGET_OPENBSD_NR___sysctl 166
#define TARGET_OPENBSD_NR_mlock 167
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfsioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_mremark 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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 * *
 */

#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

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/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp */

/*
 * System call numbers.
 *
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/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall  0
#define TARGET_FREEBSD_NR_exit    1
#define TARGET_FREEBSD_NR_fork    2
#define TARGET_FREEBSD_NR_read    3
#define TARGET_FREEBSD_NR_write   4
#define TARGET_FREEBSD_NR_open    5
#define TARGET_FREEBSD_NR_wait4   7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link    9
#define TARGET_FREEBSD_NR_unlink  10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir   12
#define TARGET_FREEBSD_NR_fchdir  13
#define TARGET_FREEBSD_NR_mknod   14
#define TARGET_FREEBSD_NR_chmod   15
#define TARGET_FREEBSD_NR_chown   16
#define TARGET_FREEBSD_NR_break   17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid  20
#define TARGET_FREEBSD_NR_mount   21
#define TARGET_FREEBSD_NRUnmount 22
#define TARGET_FREEBSD_NR_setuid  23
#define TARGET_FREEBSD_NR_getuid  24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace  26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */

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#define TARGET_FREEBSD_NR_mincore   78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgp   81
#define TARGET_FREEBSD_NR_setpgid   82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon    85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2  90
#define TARGET_FREEBSD_NR_ioctl  92
#define TARGET_FREEBSD_NR_select    93
#define TARGET_FREEBSD_NR_fsystime 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket    97
#define TARGET_FREEBSD_NR_connect   98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind  104
#define TARGET_FREEBSD_NR_setsockopt    105
#define TARGET_FREEBSD_NR_listen    106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt    118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev  121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchmod   123
#define TARGET_FREEBSD_NR_fchown   124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid  127
#define TARGET_FREEBSD_NR_rename   128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
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#define TARGET_FREEBSD_NR_lgetfh 160
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#define TARGET_FREEBSD_NR_poll 209
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#define TARGET_FREEBSD_NR_clock_settime 233
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#define TARGET_FREEBSD_NR_ktimer_delete 236
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#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
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References

1. http://www.gnu.org/licenses/license-list.html
Licensing and contribution policy of dtc and libfdt

This dtc package contains two pieces of software: dtc itself, and libfdt which comprises the files in the libfdt/ subdirectory. These two pieces of software, although closely related, are quite distinct. dtc does not incorporate or rely on libfdt for its operation, nor vice versa. It is important that these two pieces of software have different license conditions.

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I made the decision to license libfdt in this way because I want to
encourage widespread and correct usage of flattened device trees, including by proprietary or otherwise GPL-incompatible firmware or tools. Allowing libfdt to be used under the terms of the BSD license makes that it easier for vendors or authors of such software to do so.

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 thereby is not dire.

Licenses such as the LGPL which would allow code to be used in non-GPL software, but also require contributions to be returned were considered. However, libfdt is designed to be used in firmwares and other environments with unusual technical constraints. It's difficult to anticipate all possible changes which might be needed to meld libfdt into such environments and so difficult to suitably word a license that puts the boundary between what is and isn't permitted in the intended place. Again, I judged encouraging widespread use of libfdt by keeping the license terms simple and familiar to be the more important goal.

**IMPORTANT** It's intended that all of libfdt as released remain permissively licensed this way. Therefore only contributions which are released under these terms can be merged into the libfdt mainline.

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

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NOTE! This license does *not* cover the so-called "standalone" applications that use U-Boot services by means of the jump table provided by U-Boot exactly for this purpose - this is merely considered normal use of U-Boot, and does *not* fall under the heading of "derived work" -- see file Licenses/Exceptions for details.

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-- Wolfgang Denk

Like many other projects, U-Boot has a tradition of including big blocks of License headers in all files. This not only blows up the source code with mostly redundant information, but also makes it very difficult to generate License Clearing Reports. An additional problem is that even the same licenses are referred to by a number of slightly varying text blocks (full, abbreviated, different indentation, line wrapping and/or white space, with obsolete address information, ...) which makes automatic processing a nightmare.

To make this easier, such license headers in the source files will be replaced with a single line reference to Unique License Identifiers as defined by the Linux Foundation's SPDX project [1]. For example, in a source file the full "GPL v2.0 or later" header text will be replaced by a single line:

```
SPDX-License-Identifier: GPL-2.0+
```

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If a "SPDX-License-Identifier:" line references more than one Unique License Identifier, then this means that the respective file can be used under the terms of either of these licenses, i. e. with

```
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```
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We use the SPDX Unique License Identifiers here; these are available at [2].


Full name	SPDX Identifier	OSI Approved	File name	URI
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X11 License	X11
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The header files "include/image.h" and "arch/*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

-- Wolfgang Denk
Index: debug.c
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
void X86EMU_trace_regs (void) {
    if (DEBUG_TRACE()) {
        x86emu_dump_regs();
    +    if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
            x86emu_dump_xregs();
        } else {
            x86emu_dump_regs();
        }
    }
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
    @ @ -185,7 +189,7 @@
        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
+++ ops2.c 20 Mar 2008 15:48:34 +0000
@@ -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\t");
 +  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.c7 Sep 2007 10:01:21 -0000
+++ ops.c20 Mar 2008 16:52:00 -0000
@@ -1702,14 +1763,14 @@
 /* 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.c7 Sep 2007 10:01:21 -0000
+++ ops.c20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%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 ");
    }
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    +if (M.x86.intr & INTR_HALTED)
        break;
} DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
    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;
                +
            }
            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) {
                            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;
                            +
                        }
                    }
                }
            } else {
                @@ -2674,7 +2693,7 @@
                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) {
                            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;
                            +
                        }
                    }
                }
            }
        }
    }
}

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if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val1 = fetch_data_long(M.x86.R_SI);
    val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
}

- if (M.x86.mode & SYSMODE_32BIT_REP)
+ 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;
}
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 */
-     /* 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) {
+         store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-         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 (M.x86.intr & INTR_HALTED)
+             break;
+     }
+     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    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--)
{
  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();
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. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    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 {
  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--) {
    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.R_CX -= 1;
    }
}
} 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);
            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.R_CX -= 1;
    }
} else if (M.x86.mode & SYSMODE_PREFIX_REPN)
    /* 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);
            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.R_CX -= 1;
    }
} else if (M.x86.mode & SYSMODE_PREFIX_REPN)
    /* 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);
            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.R_CX -= 1;
    }
} else if (M.x86.mode & SYSMODE_PREFIX_REPN)
    /* 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);
            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.R_CX -= 1;
    }
} else if (M.x86.mode & SYSMODE_PREFIX_REPN)
    /* 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);
            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.R_CX -= 1;
    }
} else if (M.x86.mode & SYSMODE_PREFIX_REPN)
    /* 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);
            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.R_CX -= 1;
    }
} else if (M.x86.mode & SYSMODE_PREFIX_REPN)
    /* 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);
            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.R_CX -= 1;
    }
} else if (M.x86.mode & SYSMODE_PREFIX_REPN)
    /* 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);
            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.R_CX -= 1;
    }

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break;  /* zero flag set means equal */
+
+     if (M.x86.intr & INTR_HALTED)
+         break;
+
+     }
+
+     M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
+
+ } else {
@@ -2951,8 +3003,8 @@
+     TRACE_AND_STEP();
+     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) {
+         +         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 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) {
+         +         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, (u16)val);
+         } else if (M.x86.mode & SYSMODE_32BIT_REP)
+         +             M.x86.R_CX -= 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_REPNE;
+     }
+     
+ }
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;
}

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();

imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-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, "NEAR");
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-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();

START_OF_INSTR();
DECODE_PRINTF("RET\n");
-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");
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

START_OF_INSTR();
DECODE_PRINTF("RETF\n");
-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();
DECODE_PRINTF("RETF\n");
-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");
    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 (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+        !ACCESS_FLAG(F_ZF))      /* (E)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)
-        M.x86.R_IP = ip;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+        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)
-        M.x86.R_IP = ip;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+        ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
+        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4083,8 +4152,11 @@
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)
-        M.x86.R_IP = ip;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+        ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
+        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4104,8 +4175,11 @@
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)
-        M.x86.R_IP = ip;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+        ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
+        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4125,8 +4198,11 @@
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)
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
    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();
}
@@ -5013,12 +5093,14 @@
        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.c7 Sep 2007 10:01:21 -00001.1
+++ prim_ops.c16 Jan 2008 14:18:15 -00001.3
@@ -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 = (u32)(u32)M.x86.R_EAX * (u32)s;

```c
+ u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
    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) ?
                     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) {
        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) ?
                     u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                                 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) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
```

```
Open Source Used In Cisco ASR 900 Route Switch Processor 17.6.1 3339
```
```c
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif
-#ifdef IN_MODULE
-#include "xf86_ansic.h"

@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif
-#ifdef 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;
```
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}

RCS file:/cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
 #define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
 #define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
 #define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
+# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
+# define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
+# define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
+# define DEBUG_SYSINT()        0
+# define DEBUG_TRACECALL()     0
+# define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP()       0
+# define DEBUG_TRACEJMPREGS()   0
+# define DEBUG_SYS()           0
+# 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
", 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\n",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\n", 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)
++# define JMP_TRACE(u,v,w,x,s)
#endif

#endif 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 -00001.1
+++ include/x86emu/regs.h15 Jan 2008 13:46:40 -00001.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200

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 -00001.1
+++ include/x86emu/regs.h15 Jan 2008 13:46:40 -00001.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR 0x000000400
+#/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 0x000000800
#define SYSMODE_INTR_PENDING 0x0000000800
#define SYSMODE_EXTRN_INTR 0x0200000000
#define SYSMODE_HALTED 0x0400000000
@@ -250,7 +253,8 @@
   @ @ -250,7 +253,8 @ @
   SYSMODE_SEGOVR_SS  \ | \ 
   SYSMODE_PREFIX_DATA  \ | \
   - 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;
+int debug;
#ifdef 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 0x000000
```c
#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 @@
#ifdef __cplusplus
}                       /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */

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# *
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# ****************************************************************************/
#!/bin/bash
#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check whether svn, patch, ... is available...
if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi
if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion
```
#revision known to work...
REV=496

`echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV`

`echo "Copying files..."
mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu`

`echo "Removing checkedout subversion director..."
rm -rf x86emu`

`echo "Patching files..."
$PATCH -p0 < x86emu_changes.diff`

`echo "done"
exit 0`

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

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History
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Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>


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/* Written by David MacKenzie <djm@gnu.ai.mit.edu> and Paul Eggert */

1.294 readline 7.0 r0
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If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{}Texts`` line with this:

@smallexample
@group
1.295 python-pycrypto 2.6.1 r0

1.295.1 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.

<table>
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<th>Year</th>
<th>Owner</th>
<th>GPL-compatible? (1)</th>
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<td>2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

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

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

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tsu-notify.mbox         - Notification sent per U.S. export regulations
copy/                   - Copyright info & public-domain dedications
From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwn@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
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by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
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Delivered-To: m-dlitz-dlitz@dlitz.net
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  15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
  Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
enc@nsa.gov,
web_site@bis.doc.gov,
pycrypto@lists.dlitz.net,
PYTHON-CRYPTO@NIC.SURFNET.NL,
dlitz@dlitz.net
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client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
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Date: Wed, 27 Aug 2008 20:42:54 -0400
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Content-Disposition: inline
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X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
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id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
-----BEGIN PGP SIGNED MESSAGE-----

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

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

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

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

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

---

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

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=3oIX
-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sun Aug  2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. 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?

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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
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=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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: <20090803143540.GA1326@rivest.dlitz.net>
<324cfb540908030913x71d331f0kb69052f74e5ae6b@mail.gmail.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!
> 
> >> I understand that you have made contributions to PyCrypto, under nickname
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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
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Hi Barry,

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--amk (www.amk.ca)

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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?
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)
iQCVAwUBSawJhnEjvBPtMxIvAQLZjgP/ccG+JdZwNvPJRf6a6rhY6+MHLDH16agk
evkJnSJQAcVHIzV1VeR51XgyDUMakZjU4SOV7MqksKA9IlJ7PaD92SYgn3ra5
gElwI2DQDoOy5GExm74gqrblPCCbCRmpaYNo+DZohwHkeFBjwDRA3wlOntH7
SK4w9VBiftY=3D
=3DQduY
-----END PGP SIGNATURE-----
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

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

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

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

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)
iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAh7x8AV1mstc2kxEJDWThm26PTAZxMz4B
FektbDOzkgxgc5580MGGeeX/VMn8aw+1BHg0YD85gsnt1DzkQtb+BR/xAvJ5zKyA
J/Mn/I+16ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKoBx+/5+t1ILJtBcZ
wrPEa9Oui9s=
=ZSY9
-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. 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/;
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").

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

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_ by Van Lindberg.
May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

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 B3C7 F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAkko52IACgkQHBG4d+eAS0XPPQCFcxyQ2DdAXKg9N7Z+jSeFFD5EZ
yloAn33aZJkWeyJaTbzEqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
for <dwn@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
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> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
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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
Hi Jeethu,

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

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

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--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 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 goodel.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 goodel.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: 209.85.128.0/17 is authorized to use 'jeethurao@gmail.com' in
'mfrom' identity (mechanism 'ip4:209.85.128.0/17 matched)) receiver=goodel.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 goodel.dlitz.net (Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun,  8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=dailymail.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references:
date:message-id:subject:from:to:content-type;
bh=YWy9U32WCU/k5RqukJHwaOZyQBU4Yvt5mI20U6ml/g=;
b=0Mj22lIxBJkge2zNjW3rRu9JQlfXmey5Wp0pLtuNF+X3duyfhopTuBAKw7MwVY
B5F6vQBuGVEzyBbNstvcybq6DHiQiQtouCLZymSviobmuDmKn5DtUKoxpDk0xCxQmHYaas
L9/6D3/J66kKzNBgX9mc0GPeZTviVFYykPR0Q=
DomainKey-Signature: a=rsa-sha1; c=nofws;
d=dailymail.com; s=gamma;
h=mime-version:in-reply-to:references:date:message-id:subject:from:to
:content-type;
b=Yo7CStuDEIJKay1AlyWZkJmJA1lnTcwCG6akBHAXLId8ht6PFcmlsfzfZG8hJCI9J8
vilqcT+G6cywVBTw1pyGX7ECYzr0+vhGvqdpACGr24zikHfpSSd5GFogzXaLVvGVH8p
bqSHpfWKkEP4gAQklnEqlGNrR2j8U3fnRyg= 
Hi Dwayne,

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

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

Jeethu Rao

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

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

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

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

--
Jeethu Rao

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PS: Apologies for the delay in my response.
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Regards,

- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

--

Jeethu Rao

---000e0cd209d0e5a3d4064a23054---

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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

Developer's Certificate of Origin 1.1

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

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

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

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

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

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

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

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

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

=== EOF ===
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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 joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
    for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
    Received: (vmailmgr-postfix 16890 invoked by uid 1003);  5 May 2009 01:08:32 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
        envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
    Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
        by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
    for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
    Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000
    Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
        (envelope-sender <joris@bontje.nl>)
        by 10.170.1.96 (qmail-ldap-1.03) with SMTP
for < >;  5 May 2009 07:08:25 -0000
    Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
id 9BE9B15759B; Tue,  5 May 2009 09:08:25 +0200 (CEST)
    Received: from firewall66.interaccess.nl (firewall66.interaccess.nl
        [193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;
    Tue, 05 May 2009 09:08:25 +0200
Message-ID: <20090505090825.gsqlips7hg08wwwok@www.webmail.vuurwerk.nl>
Date: Tue, 05 May 2009 09:08:25 +0200
From: joris@bontje.nl
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
References: <20090505024914.GA9219@rivest.dlitz.net>
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain;
    charset=ISO-8859-1;
    format="flowed"
    Content-Disposition: inline
    Content-Transfer-Encoding: 7bit
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)
Status: RO
X-Status: A
Content-Length: 3488
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

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

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>
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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

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
From dlitz@dlitz.net Sat Apr 18 09:14:20 2009
Date: Sat, 18 Apr 2009 09:14:20 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Mark Moraes <moraes@computer.org>
Subject: PyCrypto license clarification
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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--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
    for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
    for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
    by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
    for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sh256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;
b=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
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s=1024; d=yahoo.com;
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=fr6ShFF5VqQlg+9tn1xKuo4Rs41VxXf6dQopQrMyRcxFeoebhuTE35grGqlonOJLwM0+miZwRb6GrkJd7
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  eo=/; Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
FrK8aWVMVM1jmFjtLpMgUbCLjbUQC.i.lkIAKUHSFsF7n9PbtewAewXJ2ahZGCOlGcx6oVnG3u.CgqzAffY
  4vZSnfTT8wnCkzZNZ_g6k,XUc3ipo_6e.92TXl4p8MxDGAf1tpNF5nXPwCQ7aREs7jGoWWVJYVyp50clsUFS
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Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

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Mark.

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> Subject: Re: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
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> 
>  bufferSize is a power of two between 1 and MAX_PACKET_SIZE.
> 
>  return pyldl
>  
>  return result
>  
>  ==============

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   Key-signing key - 19E1
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Regards,
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

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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)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQClQmYYuVODvIlYlg0hgCl9LAhQ
SH8AoLJgaq1III7/ZYDc+/Cd8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----

00INDEX        This file
LICENSE.orig   Original (deprecated) license for the Python Cryptography Toolkit
LICENSE.libtom LICENSE file from LibTomCrypt
stmts/        Statements by contributors
Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

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

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

To rectify this situation for PyCrypto 2.1, the following steps have
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1. Obtaining explicit permission from the original contributors to
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contributors' statements.)

2. Replacing some modules with clearly-licensed code from other
sources (e.g. the DES and DES3 modules were replaced with new ones
based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

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1.296 ccid 1.4.24 r0

1.296.1 Available under license:

OpenCT, a middleware framework for smart card terminals.

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Version 2.1, February 1999

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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

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

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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.

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

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

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

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

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

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

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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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1.300 systemd-bootchart 233 r0

1.301 util-linux 2.32.1 r0
1.301.1 Available under license:

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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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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.

1.303 bison 3.0.4 r0

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medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
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```
<program> Copyright (C) <year> <name of author>
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```

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```
#!/usr/bin/perl -0777 -pi
# Update b4_copyright invocations or b4_copyright_years definitions to include the current year.

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use strict;
use warnings;

my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/^\d\d\d\d$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
    $this_year = $year + 1900;
}
my $old_re = <<'EOF'

( (?:^(un)
  #BEFORE
  (?:
      \)\)[^[]*
    | m4_(?:push|pop)\d\4
  )
  #AFTER
  )
  (?:
    \s*
    ( \[s* (?:\d\4)(?::\s*[-]*)\s* \d\4 \s*]*
      |[^s]* (?:\d\4)(?::\s*[-]*)\s* \d\4 \s*]*
    )
  )?
  )
EOF

while (/($old_re)/gx)
{
    my $start = pos() - length ($1);
    my $b4_copyright_line = $2;
    my $year_lines = $3;
    my $final_year = $4;
    $year_lines .= ');
    # If there was a second argument, it contains years, so update them.
    if ($final_year)
    {
        $b4_copyright_line .= ');
        if ($final_year != $this_year)
        {
            # Update the year.
        }
    }
}
$year_lines =~ s/$final_year/$final_year, $this_year/;

# Normalize all whitespace.
$year_lines =~ s/$/\s+\//;g;

# Put spaces after commas.
$year_lines =~ s/,\s*/\s/;g;

# Compress to intervals.
$year_lines =~ s/\d{4}(?:-|\d{4})+/\1-$3/gx;

# Format within margin.
my $year_lines_new;
my $indent = index ($b4_copyright_line, '\[');
--$indent if ($b4_copyright_line =~ m/\n/);
while (length $year_lines)
{
    my $text_margin = $margin - $indent;
    if (($year_lines =~ s/^(.*\$text_margin)(?: |$)//)
        || ($year_lines =~ s/^\]\S\]+(?: |$)//))
    {
        my $line = "\n\" $indent . $1;
        ++$indent if (!$year_lines_new);
        $year_lines_new .= $line;
    } else {
    # Should be unreachable, but we don't want an infinite
    # loop if it can be reached.
    die;
    }
}

# Replace the old invocation. Should never die.
die if (!s/$old_re\G/$b4_copyright_line$year_lines_new/x);
# Prepare for the next search.
pos () = $start + length ($b4_copyright_line$year_lines_new);
}
}

while (/\b4_copyright\()$/
g
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_re;
    pos () = $start;
    $re =~ s/#BEFORE/#\G/;
    if (!$re/x)
    {
        my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
        print STDERR
            "$ARGV:$line: warning: failed to update a b4_copyright\n";
    }
    pos () = $end;
}

while (/\b4_copyright_years\])/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_re;
    $re =~ s/#AFTER/#\G/;
    if (!$re/x)
    {
        # The substr operation blows away pos (), so restoring pos ()
        # at the end is necessary.
        my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
        print STDERR
            "$ARGV:$line: warning: failed to update a "
            . " b4_copyright_years\n";
    }
    pos () = $end;
}

1.304 gnulib 2017-08-20.18 r0
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If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:
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
Please email the following information to assign@gnu.org, and we will send you the assignment form for your past and future changes.

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REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES

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[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]
Which files have you changed so far, and which new files have you written so far?

Description:
realpath, canonical_file_name: Provide canonical absolute file name

Files:
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4

Depends-on:
extensions
stdlib
nocrash
alloca-opt  [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
ermno    [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]
alloca    [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:
<stdlib.h>

License:
LGPLv2+

Maintainer:
all
Description:
Provide the GNU Free Documentation License in Texinfo format.

Files:
doc/fdl.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

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:

gl<Func_GETCWD_LGPL
if test $REPLACE_GETCWD = 1; then
   AC_LIBOBJ([getcwd-lgpl])
fi

gl_UNISTD_MODULE_INDICATOR([getcwd])

Makefile.am:

Include:

<unistd.h>
Project GNU has to be careful to obey copyright laws, even though these laws are wrong when they stop people from sharing generally useful published information such as software, because we are in the public eye. We also use copyright to defend users’ freedom, by means of copyleft (though this does not excuse copyright law for helping to make software proprietary).

This means that if you want to contribute software to GNU, you have to do something to give us legal permission to use it. There are three ways this can be done:

* Assign the copyright to the Free Software Foundation. This allows the FSF to act to stop violations of the GPL.

* Keep the copyright and release the program yourself under the GNU GPL. (This alternative is too impractical for contributions to a preexisting FSF-copyrighted GNU program.)

* 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.

* Assigning copyright.

Assigning the copyright means signing a contract that makes the Free Software Foundation the “owner” of the program according to the law. As the copyright holder, the Foundation can sue anyone who tries to distribute the program as a proprietary product. We are willing to keep your name on the program as the author for as long as the program remains recognizably distinct. (“Owner” is in quotes to show that we don’t really believe in this kind of ownership.)

The assignment contract commits the foundation to setting distribution terms that permit free redistribution.

Often we don’t want to do the work of starting to distribute a program right away. There are many things which we will need in order to have a complete system but which aren’t really useful until the rest of the
system is done. But signing the assignment does not stop you from distributing the program yourself--as long as you do so under the GNU terms. You don't have to wait for us to start distributing. You can start distributing as soon as you attach our standard copyleft to the files. (Ask for our advice on how to do this.)

The assignment contract we normally use has a clause that permits you to use your code in proprietary programs, on 30 days' notice. (The 30 days' notice is there because, through a legal technicality, it would improve our position in a suit against a hoarder.) Although we believe that proprietary software is wrong, we include this clause because it would serve no purpose to ask you to promise not to do it. You're giving us a gift in the first place.

You don't need to invoke this clause in order to distribute copies as free software under the GNU GPL, since everyone is allowed to do that.

* Releasing it yourself.

You can release a program yourself under copyleft distribution terms such as the GNU GPL. (In order to accept the program as GNU software, we would have to be happy with your choice of terms.) This does not require a contract between you and the FSF, but we would appreciate having a signed piece of paper to confirm your decision.

If someone violates your terms--for example, if someone gets a copy from us, and uses it as a basis for a proprietary product in violation of the terms--we cannot sue him. You would have to sue, or he gets away with it.

* Public domain.

If you put the program in the public domain, we prefer to have a signed piece of paper--a disclaimer of rights--from you confirming this. If the program is not very important, we can do without one; the worst that could happen is that we might some day be forced to stop using it.

The law says that anyone can copyright a modified version of the public domain work. (This doesn't restrict the original, which remains in the public domain; only the changes are copyrighted.) If we make extensive changes, we will probably do this and add our usual copyleft. If we make small changes, we will leave the version we distribute in the public domain.

* What about your employer?

If you are employed to do programming, or have made an agreement with your employer that says it owns programs you write, we need a signed piece of
paper from your employer disclaiming rights to the program. It should be
signed by a vice president or general manager of the company. If you
can't get at them, it is almost as good to find someone who signs licenses
for software that is purchased. Here is a sample wording:

Digital Simulation Corporation hereby disclaims all copyright interest
in the program "sample.el" (a program to direct assemblers to make passes
at compilers under GNU Emacs) written by Hugh Hacker.

<signature of Mo Ghoul>, 1 April 1987
Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer
what the disclaimer covers.

If what you did was change an existing program, it should say this:

...in the changes and enhancements made by Hugh Hacker to the
program "sample.el".

* Did anyone else contribute?

If someone else contributed more than a few lines here or there to the
program, then that person too is an author, and that person too needs to
sign papers just as you do. So may that person's employer. However, if
his contribution is just a fraction of the whole work, it is satisfactory
if he disclaims his own rights, even if you are assigning yours. (If just
the minor contributors' work goes in the public domain, that doesn't leave
much of a loophole for hoarders.)

If you incorporated packages which you found floating around as "public
domain", we might still want to track down their authors, to get
disclaimers to reassure us that they really are in the public domain. So
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* A reminder:

In working on a project for GNU, DO NOT study and follow any Unix
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project. Don't refer to them at all, unless you are forced to for
non-GNU reasons.

It is not considered a serious problem if you have read Unix sources
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you don't copy anything in particular from them. However, referring
to them while you do the work could cause us legal problems later.
Description:
Provide the GNU General Public License version 2.0 in Texinfo format.
Files:
doc/gpl-2.0.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all
Please email the following information to assign@gnu.org, and we will send you the assignment form that covers the changes you have already written. That form will cover subsequent corrections to those changes, but it will not cover other unrelated future changes to the same program.

Please use your full legal name (in ASCII characters) as the subject line of the message.

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[For the copyright registration, what country are you a citizen of?]  

[What year were you born?]  

[Please write your email address here.]  

[Please write your postal address here.]
[Which files have you changed so far, and which new files have you written so far?]

Please email the following information to assign@gnu.org, and we will send you the disclaimer form for your changes. This form is preferred when your changes are small, they do not add any nontrivial new files, and you are finished making them (aside perhaps from small bug fixes).

If you would like to make further contributions to the same package, and you would like to avoid the need to sign more papers when you contribute them, you have another option: to sign a copyright assignment covering your future changes. If that is what you want to do, please tell the maintainer you would prefer to sign an assignment of past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.

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

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes?]

[Please write your email address here.]

[Please write your snail address here.]

[Please list the files involved, or give a brief description of the changes being disclaimed.]
Description:
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Files:
doc/agpl-3.0.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
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Maintainer:
all
Description:
Extract specific portions of filenames.

Files:
lib/direname.h
lib/direname-lgpl.c
lib/basename-lgpl.c
lib/strip slash.c
m4/direname.m4

Depends-on:
dosname
double-slash-root
malloc-posix
stdbool

configure.ac:
gl_DIRENAME_LGPL

Makefile.am:
lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:
"dirname.h"

License:
LGPLv2+

Maintainer:
Jim Meyering, Eric Blake
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:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir=$('$(abs_aux_dir)'
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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@center Version 2, June 1991
@c This file is intended to be included within another document,
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distributed under the terms of Sections 1 and 2 above on a medium
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Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
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received the program in object code or executable form with such
an offer, in accord with Subsection b above.)
@end enumerate

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
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itself accompanies the executable.

If distribution of executable or 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 counts as
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possibility of such damages.
@end enumerate

@end iftex
@end ifinfo
@end page

@heading Appendix: How to Apply These Terms to Your New Programs

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

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

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{yyyy}  @var{name of author}

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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301, USA.
@end smallexample

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:

@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{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.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{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:

@example
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@end example

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Some of the source files in lib/ have different licenses. Also, the
copy of maintain.texi in doc/ has a verbatim-copying license, and
doc/standards.texi and make-stds.texi are GFDL. Most (but not all)
m4/*.m4 files have nearly unlimited licenses.

Description:
Provide the GNU Lesser General Public License version 3.0 in Texinfo format.

Files:
doc/lgpl-3.0.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all

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:
Update an FSF copyright year list to include the current year.

Files:
build-aux/update-copyright

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
GPLed build tool

Maintainer:
Jim Meyering

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

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

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

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

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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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
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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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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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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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Files:
tests/test-getcwd-lgpl.c
tests/signature.h
tests/macros.h

Depends-on:

configure.ac:

Makefile.am:
TESTS += test-getcwd-lgpl
check_PROGRAMS += test-getcwd-lgpl
test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)
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### 1.305 libgpiod 1.2 r0

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1.306 libselinux 2.8 r0

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1.307 python-asn1crypto 0.24.0 r0

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1.308 libmspack 0.5alpha r0

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

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

That's all there is to it!
#!/usr/bin/python
#
# Copyright (C) 2013-2018 Free Software Foundation, Inc.
#
# This script 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 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
directories, including those that haven't been approved. So:
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',]
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'	')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext(os.path.join(dir, filename))

    # Skip imported texinfo files.
    if extension == '.texinfo':
        return True
if extension in self.skip_extensions:
    return True

if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists(base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True

        if os.path.exists(base + '.in'):
            return True

    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True

    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '\[0-9\](?:[-0-9.,\s\-]+\[0-9\])'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[w\-\]'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')
# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|\d' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (ranges + '|.' + name)

# 1: 'Copyright (C)', etc.
'([Cc]opyright'  
'\([Cc]\)opyrights+\(|[Cc]\)'  
'\([Cc]\)opyright+s%\s'  
'\([Cc]\)opyright+s&copy,'  
'\([Cc]\)opyright+s@\copyright\}'  
'copyright = u"  
'@set\+s+copyright\[w-\]+')

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s+(?::+ ranges + .'?)  
'[@value\[\^[ ]\]\]s\s*)'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\ + name + '(?::+ name + ')\)?)'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+//|@c ',
dnl ')

self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ' ' 

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
canon_form = holder
self.holders[holder] = canon_form
index = holder.find (' ')  
while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

    def parse_year (self, string):
        year = int (string)
        if len (string) == 2:
            if year > 70:
                return year + 1900
            elif len (string) == 4:
                return year
            raise self.BadYear (string)
        else:
            raise self.BadYear (string)

    def year_range (self, years):
        year_list = [self.parse_year (year)
                     for year in self.year_re.findall (years)]
        assert len (year_list) > 0
        return (min (year_list), max (year_list))

    def set_use_quilt (self, use_quilt):
        self.use_quilt = use_quilt

    def include_year (self, year):
        assert not self.max_year
        self.max_year = year

    def canonicalise_years (self, dir, filename, filter, years):
        # Leave texinfo variables alone.
        if years.startswith ('@value'):
            return years

        (min_year, max_year) = self.year_range (years)

        # Update the upper bound, if enabled.
        if self.max_year and not filter.is_fossilised_file (dir, filename):
            return years

            (min_year, max_year) = self.year_range (years)
max_year = max(max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn’t look like a proper continuation,
            # assume that what we’ve got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

            # If the next line doesn’t look like a proper continuation,
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
    'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    line = (line[:match.start (4)]
    + canon_form
    + line[match.end (4):])

    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)
line = (line[:match.start (2)]
+ ('' if intro.startswith ('copyright = ') else ' ')
+ canon_form + self.separator
+ line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right
'): intro += ' (C)'
e elif intro.endswith ('(c'):intro = intro[:-3] + ' (C)' line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + 'n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter, file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
self.errors.report (pathname,
'unrecognised copyright: %s'
% line.strip())
lines.append (line)
line = next_line
# If something changed, write the new file out.
if changed and self.errors.ok():
tmp_pathname = pathname + '.tmp'
with open (tmp_pathname, 'w') as file:
for line in lines:
file.write (line)
os.fchmod (file.fileno(), mode)
if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])
os.rename (tmp_pathname, pathname)
def process_tree (self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
if filter.skip_dir (dir, subdirs[i]):
del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s\n'
% os.path.join (dir, filename))
else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)

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def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    ' % sys.argv[0])
    format = '%-15s %s
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + 'n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        elif len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
for (dir, filter) in self.dirs:
    if (dir + os.sep).startswith (canon_dir):
        count += 1
        self.copyright.process_tree (dir, filter)
    if count == 0:
        self.errors.report (None, 'unrecognised directory: '
                           + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#-------------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set (
            # Not part of GCC
            'math-68881.h',
        )
        self.skip_dirs |= set (
            # Better not create a merge nightmare for the GNAT folks.
            'ada',
            # Handled separately.
            'testsuite',
        )
        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.po',
        )
class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    self.skip_extensions |= set([
        # Don't change the tests, which could be went by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
    ])

    def skip_file(self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
            return True
        # Similarly params/README.
        if filename == 'README' and os.path.basename(dir) == 'params':
            return True
        if filename == 'pdt_5.f03' and os.path.basename(dir) == 'gfortran.dg':
            return True
        return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    self.skip_extensions |= set([
        # Maintained by the translation project.
        '.po',
    ])

# Automatically-generated.
'.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])
class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author('Free Software Foundation', canon_fsf)
self.add_package_author('Free Software Foundation.', can_fsf)
self.add_package_author('Free Software Foundation Inc.', can_fsf)
self.add_package_author('Free Software Foundation, Inc', can_fsf)
self.add_package_author('Free Software Foundation, Inc.', can_fsf)
self.add_package_author('The Free Software Foundation', can_fsf)
self.add_package_author('The Free Software Foundation, Inc.', can_fsf)
self.add_package_author('Software Foundation, Inc.', can_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Intel Corporation')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('NVIDIA Corporation')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
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self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir ('gnatools')
self.add_dir ('gotools')
self.add_dir ('include')
# intl is imported from upstream.
self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcc1')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libfortran')
# libgo is imported from upstream.
self.add_dir ('libgomp')
self.add_dir ('libhsail-rt')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir ('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
]
'libvtv',
'ltc-plugin',
]

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

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
c man end
@end ignore
@c man begin DESCRIPTION
@unnumbered GNU General Public License
center Version 3, 29 June 2007
@c This file is intended to be included in another file.
display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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license document, but changing it is not allowed.
display

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@enumerate 0
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@enumerate a

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@item
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anyone who possesses the object code either (1) a copy of the
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covered by this License, on a durable physical medium customarily used
for software interchange, for a price no more than your reasonable
cost of physically performing this conveying of source, or (2) access
to copy the Corresponding Source from a network server at no charge.

@item
Convey individual copies of the object code with a copy of the written
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received the object code with such an offer, in accord with subsection
6b.

@item
Convey the object code by offering access from a designated place
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Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
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the object code is a network server, the Corresponding Source may be
on a different server (operated by you or a third party) that supports
equivalent copying facilities, provided you maintain clear directions
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@item
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The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an ``about box``.

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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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necessary. Here is a sample; alter the names:

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

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

That's all there is to it!

`\" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
`\"
`\" Standard preamble:
`\" ========================================================================
.de Sp `\" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
 ...
de Vb `\" Begin verbatim text
.ft CW
.nf
.ne \$1
...
de Ve `\" End verbatim text
.ft R
.fi
...
`\" Set up some character translations and predefined strings. `\"(-- will
`\" give an unbreakable dash, `\"(PI will give pi, `\"(L" will give a left
`\" double quote, and `\"(R" will give a right double quote. `\"(C+ will
`\" give a nicer C++. Capital omega is used to do unbreakable dashes and
`\" therefore won't be available. `\"(C' and `\"(C expand to `` in nroff,
`\" nothing in troff, for use with C<<.
.tr \"(*W-
.ds C+ C\'v\'-1v\'h\'-1p\'s-2+h\'-1p+\'s0\'v\'.1v\'h\'-1p'
.ie n n{|}
 . ds C+ C\'v\'-1v\'h\'-1p\'s-2+h\'-1p+\'s0\'v\'.1v\'h\'-1p'
   .n
 . ds -- `\"(*W-
 . ds PI pi
 . if (\n(H=4u)&(1m=24u) .ds -- `\"(*W\'h\'-12u\'(*W\'h\'-12u\'\" diablo 10 pitch
 . if (\n(H=4u)&(1m=20u) .ds -- `\"(*W\'h\'-12u\'(*W\'h\'-8u\'\" diablo 12 pitch
 . ds L" "
 . ds R" "
 . ds C" "
 . ds C" "
 }br}
}el{|}
. ds -- \{\(em\}\}
. ds PI \(*p
. ds L` `
. ds C`
. ds C'
'br}
" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \(aq
.el       .ds Aq '
." If the F register is >0, we'll generate index entries on stderr for
." titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
." entries marked with X<> in POD. Of course, you'll have to process the
." output yourself in some meaningful fashion.
." Avoid warning from groff about undefined register 'F'.
.de IX
.. .if \!nF .nr F 0
   .if \!nF>0 \{
      . de IX
      . tm Index:\$1\t\n%	"\$2"
.. . if \!nF==2 \{
      . nr % 0
      . nr F 2
      . \}
   \}
" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
" Fear. Run. Save yourself. No user-serviceable parts.
." fudge factors for nroff and troff
.. .if n \{
   . ds #H 0
   . ds #V .8m
   . ds #F .3m
   . ds #[ M1
   . ds #] MP
.. .if t \{
   . ds #H ((1u-\n\n(\fu%2u))*1.3m)
   . ds #V .6m
   . ds #F 0
   . ds #[ \&
   . ds #] \&
"
" simple accents for nroff and troff
    \" ds ' \&
    \d s` \&
    ds ^ \&
    ds , \&
    ds ~ ~
    ds /
    \} .if n \{
    ds ' \&
    ds ` \&
    ds ^ \&
    ds , \&
    ds ~ ~
    ds /
\} .if t \{
    ds ' \&
    ds ` \&
    ds ^ \&
    ds , \&
    ds ~ ~
    ds /
    \} .if v .ds ~ \&
    ds ^ \&
    ds th \&
    ds Th \&
    ds ae ae
    \} .rm # [ #] #H #V #F C
\} \" ========================================================================
\} IX Title "GPL 7"
.TH GPL 7 "2018-07-26" "gcc-8.2.0" "GNU"
"For nroff, turn off justification. Always turn off hyphenation; it makes
way too many mistakes in technical documents.
.if n .ad 1
.nh
.SH "NAME"
gpl `- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS `\-GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
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.Ve
.SS "Preamble"
.IX Subsection "Preamble"
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SS "TERMS AND CONDITIONS"

IX Subsection "TERMS AND CONDITIONS"

IP "0. Definitions."

IX Item "0. Definitions."

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The "source code" for a work means the preferred form of the work for
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A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
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Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
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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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/* Definitions for BSD assembler syntax for Intel 386
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<http://www.gnu.org/licenses/>  */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.`'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
fprintf (FILE, "\t.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
    ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
    if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */
#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "."

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Open-vm-tools v10.0.7

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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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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp$
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>>> icu4c-4.4.1

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The following people contributed improvements, fixes, suggestions, and comments:

- Oliver Kurth (oku@debian.org) contributed bug fixes and the manual page for picocom.

- Julius P. Malkiewicz (julius@sonartech.com.au) contributed FreeBSD portability fixes, the C:\ command implementation, the UUCP locks implementation, and other minor fixes.

- Pavel Vymetalek (pvymetalek@seznam.cz) contributed the higher baudrates support.

- Niels Moller (nisse@lysator.liu.se) contributed support for non-alphabetic escape keys.

- (lwithers@gmail.com) contributed fixes to select(2) and read(2) error handling.

- (bob.dunlop@xyzy.org.uk) suggested fix to prevent serial port form becoming controlling terminal.

- Edgar Johansen (edgar@storteig.com) suggested conditionals to enable compilation without UUCP_LOCK_DIR

- Scott Tsai (scott.tw@gmail.com) suggested better UUCP_LOCK_DIR definition

- Josh Handley (https://github.com/jhandley) added support for line-editing, autocompletion and history when entering "send" and "receive" file names. Editing support uses the "linenoise" library. See: https://github.com/jhandley/picocom

- Salvatore Sanfilippo (https://github.com/antirez) is the author of the linenoise line-editing library. See: https://github.com/antirez/linenoise

- From Cody Schafer's (https://github.com/jmesmon) fork originated the idea to add custom baudrate support to picocom. See: https://github.com/jmesmon/picocom

- From Paul Chakravarti's (https://github.com/paulchakravarti) fork originated the idea to add support for disabling the send- and receive-file commands, and for not using the shell when executing external programs (to avoid shell escapes). See: https://github.com/paulchakravarti/picocom-noexec

- Vicente Olivert Riera (Vincent.Riera@imgtec.com) contributed minor
patches

- Peter Bradstreet (peter.bradstreet@oracle.com) helped diagnose input performance problems on overloaded / slow systems.

- Cody Planteen (https://github.com/planteen) contributed the implementation of the toggle-RTS command.

- Joe Merten (https://github.com/Joe-Merten) contributed the --lower-rts and --lower-dtr options, custom baudrate support for OSX, the --logfile option implementation, and several bug-fixes.

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NetworkX was originally written by Aric Hagberg, Dan Schult, and Pieter Swart, and has been developed with the help of many others. Thanks to everyone who has improved NetworkX by contributing code, bug reports (and fixes), documentation, and input on design, features, and the future of NetworkX.

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``networkx`` acknowledges support from the following:

- `Center for Nonlinear Studies <http://cnls.lanl.gov>`_, Los Alamos National Laboratory, PI: Aric Hagberg
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Funding
^^^^^^

``networkx`` acknowledges support from the following:

- Google Summer of Code via Python Software Foundation
- U.S. Army Research Office grant W911NF-12-1-0288
- DARPA Physical Intelligence Subcontract No. 9060-000709
- NSF Grant No. PHY-0748828
- John Templeton Foundation through a grant to the Santa Fe Institute to study complexity
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@item
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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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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.

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

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

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

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

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

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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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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#define _LTTNG_UST_CTL_PRIVATE_H

#endif
#define _LTTNG_UST_CTL_PRIVATE_H
#define _LTTNG_UST_CTL_PRIVATE_H
#include <lttng/ust-ctl.h>

/*
 * Map channel lttng_ust_shm_handle and add streams. Typically performed
 * by the application to map the objects into its memory space.
 */
struct lttng_ust_shm_handle *
ustctl_map_channel(struct lttng_ust_object_data *chan_data);
int ustctl_add_stream(struct lttng_ust_shm_handle *lttng_ust_shm_handle,
struct lttng_ust_object_data *stream_data);
/*
 * Note: the lttng_ust_object_data from which the lttng_ust_shm_handle
 * is derived can only be released after unmapping the handle.
 */
void ustctl_unmap_channel(struct lttng_ust_shm_handle *lttng_ust_shm_handle);

#ifndef /* _LTTNG_UST_CTL_PRIVATE_H */

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1.335 lzo 2.10 r0

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

#define LZO_NEED_DICT_H 1
#include "config1c.h"

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

#include "lzo1b_c.ch"
/***/

//

#define LZO_COMPRESS  
LZO_PP_ECONCAT3(lzo1c__COMPRESS_ID__compress)

#define LZO_COMPRESS_FUNC  
LZO_PP_ECONCAT3(_lzo1c__COMPRESS_ID__compress_func)

const lzo_compress_t LZO_COMPRESS_FUNC = do_compress;

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in,  lzo_uint  in_len,
    lzo_bytep out, lzo_uintp out_len,
    lzo_voidp wrkmem )
{
    return _lzo1c__do_compress(in,in_len,out,out_len,wrkmem,do_compress);
}

/* vim:set ts=4 sw=4 et: */

1.336 libcap-ng 0.7.9 r0
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1.342 sqlite 3.23.1 r0
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1.343 libxml 2.9.8 r0

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1.344 kernel-develsrc 1.0 r0

1.345 python-pycparser 2.18 r0

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1.346 libxslt 1.1.32 r0

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Gocheck - A rich testing framework for Go

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

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/*
 * mdadm - manage Linux "md" devices aka RAID arrays.
 * 
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Additions for bitmap and write-behind RAID options, Copyright (C) 2003-2004, Paul Clements, SteelEye Technology, Inc.

#include "mdadm.h"
#include "md_p.h"
#include <ctype.h>

static int scan_assemble(struct supertype *ss, struct context *c, struct mddev_ident *ident);
static int misc_scan(char devmode, struct context *c);
static int stop_scan(int verbose);
static int misc_list(struct mddev_dev *devlist, struct mddev_ident *ident, char *dump_directory, struct supertype *ss, struct context *c);

const char Name[] = "mdadm";

int main(int argc, char *argv[])
{
    int mode = 0;
    int opt;
    int option_index;
    int rv;
    int i;

    unsigned long long array_size = 0;
    unsigned long long data_offset = INVALID_SECTORS;
    struct mddev_ident ident;
    char *configfile = NULL;
    int devmode = 0;
    int bitmap_fd = -1;
    struct mddev_dev *devlist = NULL;
    struct mddev_dev **devlistend = &devlist;
    struct mddev_dev *dv;
    int devs_found = 0;
    char *symlinks = NULL;
    int grow_continue = 0;

    /* autof indicates whether and how to create device node.
    * bottom 3 bits are style.  Rest (when shifted) are number of parts
* 0 - unset
* 1 - don't create (no)
* 2 - if is_standard, then create (yes)
* 3 - create as 'md' - reject is_standard mdp (md)
* 4 - create as 'mdp' - reject is_standard md (mdp)
* 5 - default to md if not is_standard (md in config file)
* 6 - default to mdp if not is_standard (part, or mdp in config file)
*/

struct context c = {
  .require_homehost = 1,
};
struct shape s = {
  .journaldisks = 0,
  .level = UnSet,
  .layout = UnSet,
  .bitmap_chunk = UnSet,
};

char sys_hostname[256];
char *mailaddr = NULL;
char *program = NULL;
int increments = 20;
int daemonise = 0;
char *pidfile = NULL;
int oneshot = 0;
int spare_sharing = 1;
struct supertype *ss = NULL;
enum flag_mode writemostly = FlagDefault;
enum flag_mode failfast = FlagDefault;
char *shortopt = short_options;
int dosyslog = 0;
int rebuild_map = 0;
char *remove_path = NULL;
char *udev_filename = NULL;
char *dump_directory = NULL;

int print_help = 0;
FILE *outf;

int mdfd = -1;

srandom(time(0) ^ getpid());

ident.uuid_set=0;
ident.level = UnSet;
ident.raid_disks = UnSet;
ident.super_minor= UnSet;
ident.devices=0;
ident.spare_group = NULL;
ident.autof = 0;
ident.st = NULL;
ident.bitmap_fd = -1;
ident.bitmap_file = NULL;
ident.name[0] = 0;
ident.container = NULL;
ident.member = NULL;

while ((option_index = -1),
   (opt=getopt_long(argc, argv,
shortopt, long_options,
&option_index)) != -1) {
  int newmode = mode;
  /* firstly, some mode-independent options */
  switch(opt) {
    case HelpOptions:
      print_help = 2;
      continue;
    case 'h':
      print_help = 1;
      continue;
    case 'V':
      fputs(Version, stderr);
      exit(0);
    case 'v': c.verbose++;
      continue;
    case 'q': c.verbose--;
      continue;
    case 'b':
      if (mode == ASSEMBLE || mode == BUILD ||
          mode == CREATE || mode == GROW ||
          mode == INCREMENTAL || mode == MANAGE)
        break; /* b means bitmap */
    case Brief:
      c.brief = 1;
      continue;
    case 'Y': c.export++;
      continue;
    case HomeHost:
      if (strcmp(optarg, "<ignore>") == 0)
        c.require_homehost = 0;
else
    c.homehost = optarg;
  continue;

  case OffRootOpt:
      /* Silently ignore old option */
      continue;

  case Prefer:
    if (c.prefer)
      free(c.prefer);
    if (asprintf(&c.prefer, "/%s/", optarg) <= 0)
      c.prefer = NULL;
  continue;

  case ':':
  case '?':
    fputs(Usage, stderr);
    exit(2);
  }
/* second, figure out the mode.
 * Some options force the mode. Others
 * set the mode if it isn't already
 */

  switch(opt) {
    case ManageOpt:
      newmode = MANAGE;
      shortopt = short_bitmap_options;
    break;
    case 'a':
    case Add:
    case AddSpare:
    case AddJournal:
    case 'r':
    case Remove:
    case Replace:
    case With:
    case 'f':
    case Fail: /* re-add */
    case ReAdd:
      if (!mode) {
        newmode = MANAGE;
        shortopt = short_bitmap_options;
      }
  break;
}
case 'A': newmode = ASSEMBLE;
    shortopt = short_bitmap_auto_options;
    break;
    case 'B': newmode = BUILD;
    shortopt = short_bitmap_auto_options;
    break;
    case 'C': newmode = CREATE;
    shortopt = short_bitmap_auto_options;
    break;
    case 'F': newmode = MONITOR;
    break;
    case 'G': newmode = GROW;
    shortopt = short_bitmap_options;
    break;
    case 'I': newmode = INCREMENTAL;
    shortopt = short_bitmap_auto_options;
    break;
    case AutoDetect:
    newmode = AUTODETECT;
    break;

case MiscOpt:
    case 'D':
    case 'E':
    case 'X':
    case 'Q':
    case ExamineBB:
    case Dump:
    case Restore:
    case Action:
    newmode = MISC;
    break;

case 'R':
    case 'S':
    case 'o':
    case 'w':
    case 'W':
    case WaitOpt:
    case Waitclean:
    case DetailPlatform:
    case KillSubarray:
    case UpdateSubarray:
    case UdevRules:
    case KillOpt:
    if (!mode)
    newmode = MISC;
    break;
case NoSharing:
    newmode = MONITOR;
    break;
}
if (mode && newmode == mode) {
    /* everybody happy ! */
} else if (mode && newmode != mode) {
    /* not allowed.. */
    pr_err(""");
    if (option_index >= 0)
        fprintf(stderr, "--%s", long_options[option_index].name);
    else
        fprintf(stderr, ".c", opt);
    fprintf(stderr, ", would set madm mode to \"%s\", but it is already set to \"%s\",\n",
        map_num(modes, newmode),
        map_num(modes, mode));
    exit(2);
} else if (!mode && newmode) {
    mode = newmode;
    if (mode == MISC && devs_found) {
        pr_err("No action given for %s in --misc mode\n",
            devlist->devname);
        cont_err("Action options must come before device names\n");
        exit(2);
    }
    /* special case of -c --help */
    if ((opt == 'c' || opt == ConfigFile) &&
        (strcmp(optarg, "--h", 3) == 0 ||
        strcmp(optarg, "-h", 2) == 0)) {
        fputs(Help_config, stdout);
        exit(0);
    }
    /* If first option is a device, don't force the mode yet */
    if (opt == 1) {
        if (devs_found == 0) {
            dv = xmalloc(sizeof(*dv));
            dv->devname = optarg;
            dv->disposition = devmode;
            dv->writemostly = writemostly;
            dv->failfast = failfast;
            dv->used = 0;
            dv->next = NULL;
            *devlistend = dv;
            devlistend = &dv->next;
devs_found++;  
continue;
}

/* No mode yet, and this is the second device ... */
pr_err("An option must be given to set the mode before a second device\n"
"       (%s) is listed\n", optarg);
exit(2);
}

if (option_index >= 0)
pr_err("--%s", long_options[option_index].name);
else
pr_err("-%c", opt);
fprintf(stderr, " does not set the mode, and so cannot be the first option.\n");
exit(2);
}

/* if we just set the mode, then done */
switch(opt) {
    case ManageOpt:
    case MiscOpt:
    case 'A':
    case 'B':
    case 'C':
    case 'F':
    case 'G':
    case 'I':
    case AutoDetect:
    continue;
}

if (opt == 1) {
    /* an undecorated option - must be a device name. */
    *

    if (devs_found > 0 && devmode == DetailPlatform) {
        pr_err("controller may only be specified once. %s ignored\n", optarg);
        continue;
    }

    if (devs_found > 0 && mode == MANAGE && !devmode) {
        pr_err("Must give one of -a/-r/-f for subsequent devices at %s\n", optarg);
        exit(2);
    }

    if (devs_found > 0 && mode == GROW && !devmode) {
        pr_err("Must give -a/--add for devices to add: %s\n", optarg);
        exit(2);
    }

dv = xmalloc(sizeof(*dv));
dv->devname = optarg;
dv->disposition = devmode;
dv->writemostly = writemostly;
dv->failfast = failfast;
dv->used = 0;
dv->next = NULL;
*devlistend = dv;
devlistend = &dv->next;

devs_found++;
continue;
}

/* We've got a mode, and opt is now something else which * could depend on the mode */
#define O(a,b) ((a<<16)|b)
switch (O(mode,opt)) {
    case O(GROW,'c'):
    case O(GROW,ChunkSize):
    case O(CREATE,'c'):
    case O(CREATE,ChunkSize):
    case O(BUILD,'c'): /* chunk or rounding */
    case O(BUILD,ChunkSize): /* chunk or rounding */
        if (s.chunk) {
            pr_err("chunk/rounding may only be specified once. Second value is \%s\n", optarg);
            exit(2);
        }
        s.chunk = parse_size(optarg);
        if (s.chunk == INVALID_SECTORS ||
            s.chunk < 8 || (s.chunk&1)) {
            pr_err("invalid chunk/rounding value: \%s\n", optarg);
            exit(2);
        }
        /* Convert sectors to K */
        s.chunk /= 2;
        continue;

    case O(INCREMENTAL, 'e'):
    case O(CREATE,'e'):
    case O(ASSEMBLE,'e'):
    case O(MISC,'e'): /* set metadata (superblock) information */
        if (ss) {
            pr_err("metadata information already given\n");
            exit(2);
        }
        for(i=0; !ss && superlist[i]; i++)
            ss = superlist[i]->match_metadata_desc(optarg);
if (!ss) {
    pr_err("unrecognised metadata identifier: %s\n", optarg);
    exit(2);
} continue;

case O(MANAGE,'W'):
case O(MANAGE,WriteMostly):
case O(BUILD,'W'):
case O(BUILD,WriteMostly):
case O(CREATE,'W'):
case O(CREATE,WriteMostly):
    /* set write-mostly for following devices */
    writemostly = FlagSet;
    continue;

case O(MANAGE,'w'):
    /* clear write-mostly for following devices */
    writemostly = FlagClear;
    continue;

case O(MANAGE,FailFast):
case O(CREATE,FailFast):
    failfast = FlagSet;
    continue;
case O(MANAGE,NoFailFast):
    failfast = FlagClear;
    continue;

case O(GROW,'z'):
case O(CREATE,'z'):
case O(BUILD,'z'): /* size */
    if (s.size > 0) {
        pr_err("size may only be specified once. Second value is %s\n", optarg);
        exit(2);
    }
    if (strcmp(optarg, "max") == 0)
        s.size = MAX_SIZE;
    else {
        s.size = parse_size(optarg);
        if (s.size == INVALID_SECTORS || s.size < 8) {
            pr_err("invalid size: %s\n", optarg);
            exit(2);
        }
        /* convert sectors to K */
        s.size /= 2;
    }
continue;

case O(GROW,'Z'): /* array size */
    if (array_size > 0) {
        pr_err("array-size may only be specified once. Second value is %s\n", optarg);
        exit(2);
    }
    if (strcmp(optarg, "max") == 0)
        array_size = MAX_SIZE;
    else {
        array_size = parse_size(optarg);
        if (array_size == 0 ||
            array_size == INVALID_SECTORS) {
            pr_err("invalid array size: %s\n", optarg);
            exit(2);
        }
    }
    continue;

    case O(CREATE,DataOffset):
    case O(GROW,DataOffset):
        if (data_offset != INVALID_SECTORS) {
            pr_err("data-offset may only be specified one. Second value is %s\n", optarg);
            exit(2);
        }
        if (mode == CREATE && strcmp(optarg, "variable") == 0)
            data_offset = VARIABLE_OFFSET;
        else
            data_offset = parse_size(optarg);
        if (data_offset == INVALID_SECTORS) {
            pr_err("invalid data-offset: %s\n", optarg);
            exit(2);
        }
        continue;

    case O(GROW,'l'):
    case O(CREATE,'l'):
    case O(BUILD,'l'): /* set raid level*/
        if (s.level != UnSet) {
            pr_err("raid level may only be set once. Second value is %s\n", optarg);
            exit(2);
        }
        s.level = map_name(pers, optarg);
        if (s.level == UnSet) {
            pr_err("invalid raid level: %s\n", optarg);
            exit(2);
        }
        continue;
exit(2);
}
if (s.level != 0 && s.level != LEVEL_LINEAR &&
    s.level != 1 && s.level != LEVEL_MULTIPATH &&
    s.level != LEVEL_FAULTY && s.level != 10 &&
    mode == BUILD) {
    pr_err("Raid level %s not permitted with --build.
", optarg);
    exit(2);
}
if (s.sparedisks > 0 && s.level < 1 && s.level >= -1) {
    pr_err("raid level %s is incompatible with spare-devices setting.
", optarg);
    exit(2);
}
ident.level = s.level;
continue;

    case O(GROW, 'p'): /* new layout */
    case O(GROW, Layout):
        if (s.layout_str) {
            pr_err("layout may only be sent once. Second value was %s\n", optarg);
            exit(2);
        }
        s.layout_str = optarg;
        /* `Grow` will parse the value */
        continue;

    case O(CREATE,'p'): /* raid5 layout */
    case O(CREATE,Layout):
    case O(BUILD,'p'): /* faulty layout */
    case O(BUILD,Layout):
        if (s.layout != UnSet) {
            pr_err("layout may only be sent once. Second value was %s\n", optarg);
            exit(2);
        }
        switch(s.level) {
        default:
            pr_err("layout not meaningful for %s arrays.\n",
                map_num(pers, s.level));
            exit(2);
            case UnSet:
                pr_err("raid level must be given before layout.\n");
                exit(2);
        case 5:
            s.layout = map_name(r5layout, optarg);
            if (s.layout==UnSet) {
pr_err("layout %s not understood for raid5.\n", optarg);
exit(2);
}
break;
case 6:  
s.layout = map_name(r6layout, optarg);
if (s.layout==UnSet) {
pr_err("layout %s not understood for raid6.\n", optarg);
exit(2);
}
break;

case 10:  
s.layout = parse_layout_10(optarg);
if (s.layout < 0) {
pr_err("layout for raid10 must be 'nNN', 'oNN' or 'fNN' where NN is a number, not %s\n", optarg);
exit(2);
}
break;

case LEVEL_FAULTY:  
/* Faulty  
 * modeNNN  
 */

s.layout = parse_layout_faulty(optarg);
if (s.layout == -1) {
pr_err("layout %s not understood for faulty.\n", optarg);
exit(2);
}
break;
}
continue;

case O(CREATE,AssumeClean):
case O(BUILD,AssumeClean): /* assume clean */
case O(GROW,AssumeClean):
s.assume_clean = 1;
continue;

case O(GROW,'n'):
case O(CREATE,'n'):
case O(BUILD,'n'): /* number of raid disks */
if (s.raiddisks) {
pr_err("raid-devices set twice: %d and %s\n", s.raiddisks, optarg);
exit(2);
s.raiddisks = parse_num(optarg);
if (s.raiddisks <= 0) {
    pr_err("invalid number of raid devices: %s\n", optarg);
    exit(2);
}
ident.raid_disks = s.raiddisks;
continue;

case O(ASSEMBLE, Nodes):
    case O(GROW, Nodes):
    case O(CREATE, Nodes):
        c.nodes = parse_num(optarg);
        if (c.nodes <= 0) {
            pr_err("invalid number for the number of cluster nodes: %s\n", optarg);
            exit(2);
        }
        continue;
        case O(CREATE, ClusterName):
        case O(ASSEMBLE, ClusterName):
            c.homecluster = optarg;
            if (strlen(c.homecluster) > 64) {
                pr_err("Cluster name too big.\n");
                exit(ERANGE);
            }
            continue;

        case O(CREATE,'x'): /* number of spare (eXtra) disks */
            if (s.sparedisks) {
                pr_err("spare-devices set twice: %d and %s\n", s.sparedisks, optarg);
                exit(2);
            }
            if (s.level != UnSet && s.level <= 0 && s.level >= -1) {
                pr_err("spare-devices setting is incompatible with raid level %d\n", s.level);
                exit(2);
            }
            s.sparedisks = parse_num(optarg);
            if (s.sparedisks < 0) {
                pr_err("invalid number of spare-devices: %s\n", optarg);
                exit(2);
            }
            continue;

        case O(CREATE,'a'):
            case O(CREATE,Auto):
               etc.
case O(BUILD,'a'):
case O(BUILD,Auto):
case O(INCREMENTAL,'a'):
case O(INCREMENTAL,Auto):
case O(ASSEMBLE,'a'):
case O(ASSEMBLE,Auto): /* auto-creation of device node */
c.c.autof = parse_auto(optarg, "--auto flag", 0);
continue;

 caso O(CREATE,Symlinks):
caso O(BUILD,Symlinks):
c caso O(ASSEMBLE,Symlinks): /* auto creation of symlinks in /dev to /dev/md */
symlinks = optarg;
continue;

 caso O(BUILD,'f'): /* force honouring `-n 1` */
caso O(BUILD,Force): /* force honouring `-n 1` */
caso O(GROW,'f'): /* ditto */
caso O(GROW,Force): /* ditto */
caso O(CREATE,'f'): /* force honouring of device list */
caso O(CREATE,Force): /* force honouring of device list */
caso O(ASSEMBLE,'f'): /* force assembly */
caso O(ASSEMBLE,Force): /* force assembly */
caso O(MISC,'f'): /* force zero */
caso O(MISC,Force): /* force zero */
caso O(MANAGE,Force): /* add device which is too large */
c.c.force=1;
continue;
/* now for the Assemble options */
caso O(ASSEMBLE, FreezeReshape): /* Freeze reshape during
   * initrd phase */
caso O(INCREMENTAL, FreezeReshape):
c.c.freeze_reshape = 1;
continue;
caso O(ASSEMBLE,'u'): /* uuid of array */
caso O(CREATE,'u'): /* uuid of array */
if (ident.uuid_set) {
    pr_err("uuid cannot be set twice. Second value %s\n", optarg);
    exit(2);
}  
if (parse_uuid(optarg, ident.uuid))
    ident.uuid_set = 1;
else {
    pr_err("Bad uuid: %s\n", optarg);
    exit(2);
}  
continue;
case O(CREATE,'N'):
case O(ASSEMBLE,'N'):
case O(MISC,'N'):
    if (ident.name[0]) {
        pr_err("name cannot be set twice. Second value %s\n", optarg);
        exit(2);
    }
    if (mode == MISC && !c.subarray) {
        pr_err("--name only valid with --update-subarray in misc mode\n");
        exit(2);
    }
    if (strlen(optarg) > 32) {
        pr_err("name '%s' is too long, 32 chars max.\n", optarg);
        exit(2);
    }
    strcpy(ident.name, optarg);
    continue;

    case O(ASSEMBLE,'m'): /* super-minor for array */
    case O(ASSEMBLE,SuperMinor):
        if (ident.super_minor != UnSet) {
            pr_err("super-minor cannot be set twice. Second value: %s\n", optarg);
            exit(2);
        }
        if (strcmp(optarg, "dev") == 0)
            ident.super_minor = -2;
        else {
            ident.super_minor = parse_num(optarg);
            if (ident.super_minor < 0) {
                pr_err("Bad super-minor number: %s\n", optarg);
                exit(2);
            }
        }
        continue;

    case O(ASSEMBLE,'o'):
    case O(MANAGE,'o'):
    case O(CREATE,'o'):
        c.readonly = 1;
        continue;

    case O(ASSEMBLE,'U'): /* update the superblock */
    case O(MISC,'U'):
        if (c.update) {
            pr_err("Can only update one aspect of superblock, both %s and %s given.\n", 
c.update, optarg);
            exit(2);
        }
if (mode == MISC && !c.subarray) {
    pr_err("Only subarrays can be updated in misc mode\n");
    exit(2);
}

c.update = optarg;
if (strcmp(c.update, "sparc2.2") == 0)
    continue;
if (strcmp(c.update, "super-minor") == 0)
    continue;
if (strcmp(c.update, "summaries") == 0)
    continue;
if (strcmp(c.update, "resync") == 0)
    continue;
if (strcmp(c.update, "uuid") == 0)
    continue;
if (strcmp(c.update, "name") == 0)
    continue;
if (strcmp(c.update, "homehost") == 0)
    continue;
if (strcmp(c.update, "home-cluster") == 0)
    continue;
if (strcmp(c.update, "nodes") == 0)
    continue;
if (strcmp(c.update, "devicesize") == 0)
    continue;
if (strcmp(c.update, "no-bitmap") == 0)
    continue;
if (strcmp(c.update, "bbl") == 0)
    continue;
if (strcmp(c.update, "no-bbl") == 0)
    continue;
if (strcmp(c.update, "force-no-bbl") == 0)
    continue;
if (strcmp(c.update, "metadata") == 0)
    continue;
if (strcmp(c.update, "revert-reshape") == 0)
    continue;
if (strcmp(c.update, "byteorder") == 0) {
    if (ss) {
        pr_err("must not set metadata type with --update=byteorder\n");
        exit(2);
    }

    for(i=0; !ss && superlist[i]; i++)
        ss = superlist[i]->match_metadata_desc( "0.swap");
    if (!ss) {
        pr_err("INTERNAL ERROR cannot find 0.swap\n");
    }
exit(2);
}
continue;
}
if (strcmp(c.update,"?") == 0 ||
    strcmp(c.update, "help") == 0) {
    outf = stdout;
    fprintf(outf, "%s: ", Name);
} else {
    outf = stderr;
    fprintf(outf,"%s: '--update=%s' is invalid. ",
    Name, c.update);
}
fprintf(outf, "Valid --update options are:
" "     'sparc2.2', 'super-minor', 'uuid', 'name', 'nodes', 'resync',\n" "     'summaries', 'homehost', 'home-cluster', 'byteorder', 'devicesize',\n" "     'no-bitmap', 'metadata', 'revert-reshape'\n" "     'bbl', 'no-bbl', 'force-no-bbl'\n" );
exit(outf == stdout ? 0 : 2);
}

/* update=devicesize is allowed with --re-add */
if (devmode != 'A') {
    pr_err("--update in Manage mode only allowed with --re-add.\n");
    exit(1);
}
if (c.update) {
    pr_err("Can only update one aspect of superblock, both %s and %s given.\n", c.update, optarg);
    exit(2);
}
c.update = optarg;
if (strcmp(c.update, "devicesize") != 0 &&
    strcmp(c.update, "bbl") != 0 &&
    strcmp(c.update, "force-no-bbl") != 0 &&
    strcmp(c.update, "no-bbl") != 0) {
    pr_err("only 'devicesize', 'bbl', 'no-bbl', and 'force-no-bbl' can be updated with --re-add\n");
    exit(2);
}
continue;

/* no-degraded is deprecated in Incremental mode */
case O(INCREMENTAL,NoDegraded):
    pr_err("--no-degraded is deprecated in Incremental mode\n");
case O(ASSEMBLE,NoDegraded): /* --no-degraded */
    c.runstop = -1; /* --stop isn't allowed for --assemble,
continue;

case O(ASSEMBLE,'c'):
case O(ASSEMBLE,ConfigFile):
case O(INCREMENTAL, 'c'):
case O(INCREMENTAL, ConfigFile):
case O(MISC, 'c'):
case O(MISC, ConfigFile):
case O(MONITOR,'c'):
case O(MONITOR,ConfigFile):
case O(CREATE,ConfigFile):
if (configfile) {
    pr_err("configfile cannot be set twice. Second value is %s\n", optarg);
    exit(2);
}
    configfile = optarg;
    set_conffile(configfile);
    /* FIXME possibly check that config file exists. Even parse it */
    continue;
    case O(ASSEMBLE,'s'): /* scan */
    case O(MISC,'s'):
    case O(MONITOR,'s'):
    case O(INCREMENTAL,'s'):
    c.scan = 1;
    continue;
    case O(MONITOR,'m'): /* mail address */
    case O(MONITOR,EMail):
    if (mailaddr)
        pr_err("only specify one mailaddress. %s ignored.\n", optarg);
    else
        mailaddr = optarg;
    continue;
    case O(MONITOR,'p'): /* alert program */
    case O(MONITOR,ProgramOpt): /* alert program */
    if (program)
        pr_err("only specify one alter program. %s ignored.\n", optarg);
    else
        program = optarg;
    continue;
    case O(MONITOR,'r'): /* rebuild increments */
    case O(MONITOR,Increment):
        increments = atoi(optarg);
if (increments > 99 || increments < 1) {
    pr_err("please specify positive integer between 1 and 99 as rebuild increments.
    ");
    exit(2);
} continue;

    case O(MONITOR, 'd'): /* delay in seconds */
    case O(GROW, 'd'):
    case O(BUILD, 'd'): /* delay for bitmap updates */
    case O(CREATE, 'd'):
        if (c.delay)
            pr_err("only specify delay once. %s ignored.
            ", optarg);
        else { c.delay = parse_num(optarg);
            if (c.delay < 1) {
                pr_err("invalid delay: %s
                ", optarg);
                exit(2);
            }
        } continue;
    case O(MONITOR, 'f'): /* daemonise */
    case O(MONITOR, Fork):
        daemonise = 1;
        continue;
    case O(MONITOR, 'i'): /* pid */
        if (pidfile)
            pr_err("only specify one pid file. %s ignored.
            ", optarg);
        else
            pidfile = optarg;
        continue;
    case O(MONITOR, 'l'): /* oneshot */
        oneshot = 1;
        spare_sharing = 0;
        continue;
    case O(MONITOR, 't'): /* test */
        c.test = 1;
        continue;
    case O(MONITOR, 'y'): /* log messages to syslog */
        openlog("mdadm", LOG_PID, SYSLOG_FACILITY);
        dosyslog = 1;
        continue;
    case O(MONITOR, NoSharing):
        spare_sharing = 0;
        continue;
/* now the general management options. Some are applicable
 * to other modes. None have arguments.
 */
case O(GROW,'a '):
case O(GROW,Add):
case O(MANAGE,'a '):
case O(MANAGE,Add): /* add a drive */
devmode = 'a';
continue;
case O(MANAGE,AddSpare): /* add drive - never re-add */
devmode = 'S';
continue;
case O(MANAGE,AddJournal): /* add journal */
if (s.journaldisks && (s.level < 4 || s.level > 6)) {
  pr_err("--add-journal is only supported for RAID level 4/5/6\n");
  exit(2);
}
devmode = 'j';
continue;
case O(MANAGE,ReAdd):
devmode = 'A';
continue;
case O(MANAGE,'r '): /* remove a drive */
case O(MANAGE,Remove):
devmode = 'r';
continue;
case O(MANAGE,'f '): /* set faulty */
case O(MANAGE,Fail):
case O(INCREMENTAL,'f '):
case O(INCREMENTAL,Remove):
case O(INCREMENTAL,Fail): /* r for incremental is taken, use f
  * even though we will both fail and
  * remove the device */
devmode = 'f';
continue;
case O(MANAGE, ClusterConfirm):
devmode = 'c';
continue;
case O(MANAGE,Replace):
/* Mark these devices for replacement */
devmode = 'R';
continue;
case O(MANAGE,With):
/* These are the replacements to use */
if (devmode != 'R') {
  pr_err("--with must follow --replace\n");
  exit(2);
}
devmode = 'W';
continue;
case O(INCREMENTAL,'R'):
case O(MANAGE,'R'):
case O(ASSEMBLE,'R'):
case O(BUILD,'R'):
case O(CREATE,'R'): /* Run the array */
if (c.runstop < 0) {
    pr_err("Cannot both Stop and Run an array\n");
    exit(2);
}
c.runstop = 1;
continue;
case O(MANAGE,'S'):
if (c.runstop > 0) {
    pr_err("Cannot both Run and Stop an array\n");
    exit(2);
}
c.runstop = -1;
continue;
case O(MANAGE,'t'):
c.test = 1;
continue;
case O(MISC,'Q'):
case O(MISC,'D'):
case O(MISC,'E'):
case O(MISC,KillOpt):
case O(MISC,'R'):
case O(MISC,'S'):
case O(MISC,'X'):
case O(MISC, ExamineBB):
case O(MISC,'o'):
case O(MISC,'w'):
case O(MISC,'W'):
case O(MISC, WaitOpt):
case O(MISC, Waiteclean):
case O(MISC, DetailPlatform):
case O(MISC, KillSubarray):
case O(MISC, UpdateSubarray):
case O(MISC, Dump):
case O(MISC, Restore):
case O(MISC ,Action):
if (opt == KillSubarray || opt == UpdateSubarray) {
    if (c.subarray) {
        pr_err("subarray can only be specified once\n");
        exit(2);
    }
}
c.subarray = optarg;
}
if (opt == Action) {
if (c.action) {
pr_err("Only one --action can be specified\n");
exits(2);
}
if (strcmp(optarg, "idle") == 0 ||
    strcmp(optarg, "frozen") == 0 ||
    strcmp(optarg, "check") == 0 ||
    strcmp(optarg, "repair") == 0)
c.action = optarg;
else {
    pr_err("action must be one of idle, frozen, check, repair\n");
exits(2);
}
}
if (devmode && devmode != opt &&
    (devmode == 'E' ||
     (opt == 'E' && devmode != 'Q'))) {
    pr_err("--examine/-E cannot be given with ");
if (devmode == 'E') {
    if (option_index >= 0)
        fprintf(stderr, "-%s\n",
                long_options[option_index].name);
    else
        fprintf(stderr, "-%c\n", opt);
} else if (isalpha(devmode))
    fprintf(stderr, "-%c\n", devmode);
else
    fprintf(stderr, "previous option\n");
exits(2);
}
devmode = opt;
if (opt == Dump || opt == Restore) {
if (dump_directory != NULL) {
    pr_err("dump/restore directory specified twice: %s and %s\n",
          dump_directory, optarg);
exits(2);
}
dump_directory = optarg;
}
continue;
case O(MISC, UdevRules):
if (devmode && devmode != opt) {
    pr_err("--udev-rules must be the only option\n");
} else {
    if (udev_filename)
pr_err("only specify one udev rule filename. %s ignored\n", optarg);
else
    udev_filename = optarg;
}
devmode = opt;
continue;
case O(MISC, 't'):
c.test = 1;
continue;
case O(MISC, Sparc22):
    if (devmode != 'E') {
        pr_err("--sparc2.2 only allowed with --examine\n");
        exit(2);
    }
    c.SparcAdjust = 1;
    continue;
case O(ASSEMBLE, 'b'): /* here we simply set the bitmap file */
case O(ASSEMBLE, Bitmap):
    if (!optarg) {
        pr_err("bitmap file needed with -b in --assemble mode\n");
        exit(2);
    }
    if (strcmp(optarg, "internal") == 0) {
        pr_err("there is no need to specify --bitmap when assembling arrays with internal bitmaps\n");
        continue;
    }
    bitmap_fd = open(optarg, O_RDWR);
    if (!*optarg || bitmap_fd < 0) {
        pr_err("cannot open bitmap file %s: %s\n", optarg, strerror(errno));
        exit(2);
    }
    ident.bitmap_fd = bitmap_fd; /* for Assemble */
    continue;
case O(ASSEMBLE, BackupFile):
case O(GROW, BackupFile):
    /* Specify a file into which grow might place a backup, 
     * or from which assemble might recover a backup 
     */
    if (c.backup_file) {
        pr_err("backup file already specified, rejecting %s\n", optarg);
        exit(2);
    }
    c.backup_file = optarg;
    continue;
case O(GROW, Continue):
  /* Continue interrupted grow */
  grow_continue = 1;
  continue;

case O(ASSEMBLE, InvalidBackup):
  /* Acknowledge that the backupfile is invalid, but ask * to continue anyway */
  c.invalid_backup = 1;
  continue;

case O(BUILD,'b'):
  case O(BUILD, Bitmap):
  case O(CREATE,'b'):
  case O(CREATE, Bitmap):
    /* here we create the bitmap */
  case O(GROW,'b'):
    case O(GROW, Bitmap):
      if (strcmp(optarg, "internal") == 0 ||
          strcmp(optarg, "none") == 0 ||
          strchr(optarg, '/') != NULL) {
        s.bitmap_file = optarg;
        continue;
      }
      if (strcmp(optarg, "clustered") == 0) {
        s.bitmap_file = optarg;
        /* Set the default number of cluster nodes * to 4 if not already set by user */
        if (c.nodes < 1)
          c.nodes = 4;
        continue;
      }
      /* probable typo */
      pr_err("bitmap file must contain a ", or be 'internal', or be 'clustered', or 'none'
             not '%s'", optarg);
      exit(2);
  case O(GROW, BitmapChunk):
  case O(BUILD, BitmapChunk):
  case O(CREATE, BitmapChunk):
    /* bitmap chunksize */
    s.bitmap_chunk = parse_size(optarg);
    if (s.bitmap_chunk == 0 ||
        s.bitmap_chunk == INVALID_SECTORS ||
        s.bitmap_chunk & (s.bitmap_chunk - 1)) {
      pr_err("invalid bitmap chunksize: ",
             optarg);
    }
exit(2);
}
s.bitmap_chunk = s.bitmap_chunk * 512;
continue;

case O(GROW, WriteBehind):
case O(BUILD, WriteBehind):
case O(CREATE, WriteBehind): /* write-behind mode */
s.write_behind = DEFAULT_MAX_WRITE_BEHIND;
if (optarg) {
    s.write_behind = parse_num(optarg);
    if (s.write_behind < 0 ||
        s.write_behind > 16383) {
        pr_err("Invalid value for maximum outstanding write-behind writes: \%s. Must be between 0 and 16383.\n", optarg);
        exit(2);
    }
}
continue;

case O(INCREMENTAL, 'r'):
case O(INCREMENTAL, RebuildMapOpt):
    rebuild_map = 1;
    continue;
case O(INCREMENTAL, IncrementalPath):
    remove_path = optarg;
    continue;
case O(CREATE, WriteJournal):
    if (s.journaldisks) {
        pr_err("Please specify only one journal device for the array.\n");
        pr_err("Ignoring --write-journal \%s...\n", optarg);
        continue;
    }
    dv = xmalloc(sizeof(*dv));
    dv->devname = optarg;
    dv->disposition = 'j'; /* WriteJournal */
    dv->used = 0;
    dv->next = NULL;
    *devlistend = dv;
    devlistend = &dv->next;
    devs_found++;
    s.journaldisks = 1;
    continue;
}
/* We have now processed all the valid options. Anything else is
   * an error
   */
if (option_index > 0)
pr_err("option --%s not valid in %s mode\n",
long_options[option_index].name,
map_num(modes, mode));
else
pr_err("option -%c not valid in %s mode\n",
opt, map_num(modes, mode));
exit(2);

}

if (print_help) {
char *help_text;
if (print_help == 2)
help_text = OptionHelp;
else
help_text = mode_help[mode];
if (help_text == NULL)
help_text = Help;
fputs(help_text, stdout);
exit(0);
}

if (s.journaldisks && (s.level < 4 || s.level > 6)) {
pr_err("--write-journal is only supported for RAID level 4/5/6.\n");
exit(2);
}

if (!mode && devs_found) {
mode = MISC;
devmode = 'Q';
if (devlist->disposition == 0)
devlist->disposition = devmode;
}
if (!mode) {
fputs(Usage, stderr);
exit(2);
}

if (symlinks) {
struct createinfo *ci = conf_get_create_info();

if (strcasecmp(symlinks, "yes") == 0)
  ci->symlinks = 1;
else if (strcasecmp(symlinks, "no") == 0)
  ci->symlinks = 0;
else {
  pr_err("option --symlinks must be 'no' or 'yes'\n");
}
if (mode == MANAGE || mode == BUILD || mode == CREATE ||
    mode == GROW || (mode == ASSEMBLE && ! c.scan)) {
    if (devs_found < 1) {
        pr_err("an md device must be given in this mode\n");
        exit(2);
    }
    if ((int)ident.super_minor == -2 && c.autof) {
        pr_err("--super-minor=dev is incompatible with --auto\n");
        exit(2);
    }
    if (mode == MANAGE || mode == GROW) {
        mdfd = open_mddev(devlist->devname, 1);
        if (mdfd < 0)
            exit(1);
    } else
        /* non-existent device is OK */
        mdfd = open_mddev(devlist->devname, 0);
        if (mdfd == -2) {
            pr_err("device %s exists but is not an md array.\n", devlist->devname);
            exit(1);
        }
        if ((int)ident.super_minor == -2) {
            struct stat stb;
            if (mdfd < 0) {
                pr_err("--super-minor=dev given, and listed device %s doesn't exist.\n", devlist->devname);
                exit(1);
            }
            fstat(mdfd, &stb);
            ident.super_minor = minor(stb.st_rdev);
        }
    if (mdfd >= 0 && mode != MANAGE && mode != GROW) {
        /* We don't really want this open yet, we just might
         * have wanted to check some things
         */
    }
close(mdfd);
mdfd = -1;
}

if (s.raiddisks) {
if (s.raiddisks == 1 && !c.force && s.level != LEVEL_FAULTY) {
    pr_err("'1' is an unusual number of drives for an array, so it is probably\n    a mistake. If you really mean it you will need to specify --force before\n    setting the number of drives.\n");
    exit(2);
}
}

if (c.homehost == NULL && c.require_homehost)
c.homehost = conf_get_homehost(&c.require_homehost);
if (c.homehost == NULL || strcasecmp(c.homehost, "<system>") == 0) {
    if (gethostname(sys_hostname, sizeof(sys_hostname)) == 0) {
        sys_hostname[sizeof(sys_hostname)-1] = 0;
        c.homehost = sys_hostname;
    }
    if (c.homehost && (!c.homehost[0] || strcasecmp(c.homehost, "<none>") == 0)) {
        c.homehost = NULL;
        c.require_homehost = 0;
    }
}

rv = 0;

set_hooks(); /* set hooks from libs */

if (c.homecluster == NULL && (c.nodes > 0)) {
    c.homecluster = conf_get_homecluster();
    if (c.homecluster == NULL)
        rv = get_cluster_name(&c.homecluster);
    if (rv) {
        pr_err("The md can't get cluster name\n");
        exit(1);
    }
}

if (c.backup_file && data_offset != INVALID_SECTORS) {
    pr_err("--backup-file and --data-offset are incompatible\n");
    exit(2);
}

if ((mode == MISC && devmode == 'E') ||
(mode == MONITOR && spare_sharing == 0))
/* Anyone may try this */;
else if (geteuid() != 0) {
    pr_err("must be super-user to perform this action\n");
    exit(1);
}

ident.autof = c.autof;

if (c.scan && c.verbose < 2)
/* --scan implied --brief unless -vv */
c.brief = 1;

switch(mode) {
    case MANAGE:
    /* readonly, add/remove, readwrite, runstop */
    if (c.readonly > 0)
        rv = Manage_ro(devlist->devname, mdfd, c.readonly);
    if (!rv && devs_found>1)
        rv = Manage_subdevs(devlist->devname, mdfd,
            devlist->next, c.verbose, c.test,
            c.update, c.force);
    if (!rv && c.readonly < 0)
        rv = Manage_ro(devlist->devname, mdfd, c.readonly);
    if (!rv && c.runstop > 0)
        rv = Manage_run(devlist->devname, mdfd, &c);
    if (!rv && c.runstop < 0)
        rv = Manage_stop(devlist->devname, mdfd, c.verbose, 0);
    break;
    case ASSEMBLE:
    if (devs_found == 1 && ident.uuid_set == 0 &&
        ident.super_minor == UnSet && ident.name[0] == 0 &&
        !c.scan ) {
        /* Only a device has been given, so get details from config file */
        struct mddev_ident *array_ident = conf_get_ident(devlist->devname);
        if (array_ident == NULL) {
            pr_err("%s not identified in config file.\n", devlist->devname);
            rv |= 1;
            if (mdfd >= 0)
                close(mdfd);
        } else {
            if (array_ident->autof == 0)
                array_ident->autof = c.autof;
            rv |= Assemble(ss, devlist->devname, array_ident,
                        NULL, &c);
        }
    } else if (!c.scan)
rv = Assemble(ss, devlist->devname, &ident,
    devlist->next, &c);
else if (devs_found > 0) {
    if (c.update && & dev_found > 1) {
        pr_err("can only update a single array at a time\n");
        exit(1);
    }
    if (c.backup_file && & dev_found > 1) {
        pr_err("can only assemble a single array when providing a backup file\n");
        exit(1);
    }
    for (dv = devlist; dv ; dv=dv->next) {
        struct mddev_ident *array_ident = conf_get_ident(dv->devname);
        if (array_ident == NULL) {
            pr_err("%s not identified in config file\n",
                dv->devname);
            rv |= 1;
            continue;
        }
        if (array_ident->autof == 0)
            array_ident->autof = c.autof;
        rv |= Assemble(ss, dv->devname, array_ident,
            NULL, &c);
    }
} else {
    if (c.update) {
        pr_err("--update not meaningful with a --scan assembly\n");
        exit(1);
    }
    if (c.backup_file) {
        pr_err("--backup_file not meaningful with a --scan assembly\n");
        exit(1);
    }
    rv = scan_assemble(ss, &c, &ident);
}
break;
case BUILD:
    if (c.delay == 0)
        c.delay = DEFAULT_BITMAP_DELAY;
    if (s.write_behind && !s.bitmap_file) {
        pr_err("write-behind mode requires a bitmap.\n");
        rv = 1;
        break;
    }
    if (s.raiddisks == 0) {
        pr_err("no raid-devices specified.\n");
        rv = 1;
break;

if (s.bitmap_file) {
    if (strcmp(s.bitmap_file, "internal") == 0 ||
        strcmp(s.bitmap_file, "clustered") == 0) {
        pr_err("'internal' and 'clustered' bitmaps not supported with --build\n");
        rv |= 1;
        break;
    }
}

rv = Build(devlist->devname, devlist->next, &s, &c);
break;

if (c.nodes) {
    if (!s.bitmap_file ||
        strcmp(s.bitmap_file, "clustered") != 0) {
        pr_err("--nodes argument only compatible with --bitmap=clustered\n");
        rv = 1;
        break;
    }
    if (s.level != 1) {
        pr_err("--bitmap=clustered is currently supported with RAID mirror only\n");
        rv = 1;
        break;
    }
    if (s.write_behind && !s.bitmap_file) {
        pr_err("write-behind mode requires a bitmap.\n");
        rv = 1;
        break;
    }
    if (s.raiddisks == 0) {
        pr_err("no raid-devices specified.\n");
        rv = 1;
        break;
    }

    rv = Create(ss, devlist->devname,
        ident.name, ident.uuid_set ? ident.uuid : NULL,
        devs_found-1, devlist->next,
        &s, &c, data_offset);
    break;
}
case MISC:
if (devmode == 'E') {
if (devlist == NULL && !c.scan) {
  pr_err("No devices to examine\n");
  exit(2);
}
if (devlist == NULL)
  devlist = conf_get_devs();
if (devlist == NULL) {
  pr_err("No devices listed in %s\n", configfile?configfile:DefaultConfFile);
  exit(1);
}
  rv = Examine(devlist, &c, ss);
} else if (devmode == DetailPlatform) {
  rv = Detail_Platform(ss ? ss : ss : NULL, ss ? c.scan : 1,
    c.verbose, c.export,
    devlist ? devlist->devname : NULL);
} else if (devmode == NULL) {
if (devmode == 'S' && c.scan)
rv = stop_scan(c.verbose);
else if ((devmode == 'D' || devmode == Waitclean) &&
    c.scan)
  rv = misc_scan(devmode, &c);
else if (devmode == UdevRules)
  rv = Write_rules(udev_filename);
else {
  pr_err("No devices given.\n");
  exit(2);
}
else
  rv = misc_list(devlist, &ident, dump_directory, ss, &c);
break;

case MONITOR:
if (!devlist && !c.scan) {
  pr_err("Cannot monitor: need --scan or at least one device\n");
  rv = 1;
  break;
}
if (pidfile && !daemonise) {
  pr_err("Cannot write a pid file when not in daemon mode\n");
  rv = 1;
  break;
}
if (c.delay == 0) {
if (get_linux_version() > 2006016)
  /* mstat responds to poll */
  c.delay = 1000;
else
c.delay = 60;
}
rv= Monitor(devlist, mailaddr, program,
    &c, daemonise, oneshot,
    dosyslog, pidfile, increments,
    spare_sharing);
break;

case GROW:
if (array_size > 0) {
    /* alway impose array size first, independent of
       * anything else
       * Do not allow level or raid_disks changes at the
       * same time as that can be irreversibly destructive.
       */
    struct mdinfo sra;
    int err;
    if (s.raiddisks || s.level != UnSet) {
        pr_err("cannot change array size in same operation as changing raiddisks or level.
        " Change size first, then check that data is still intact.");
        rv = 1;
        break;
    }
    sysfs_init(&sra, mdfd, NULL);
    if (array_size == MAX_SIZE)
        err = sysfs_set_str(&sra, NULL, "array_size", "default");
    else
        err = sysfs_set_num(&sra, NULL, "array_size", array_size / 2);
    if (err < 0) {
        if (errno == E2BIG)
            pr_err("--array-size setting is too large.");
        else
            pr_err("current kernel does not support setting --array-size");
        rv = 1;
        break;
    }
}
if (devs_found > 1 && s.raiddisks == 0 && s.level == UnSet) {
    /* must be '-a'. */
    if (s.size > 0 || s.chunk ||
        s.layout_str || s.bitmap_file) {
        pr_err("--add cannot be used with other geometry changes in --grow mode");
        rv = 1;
        break;
    }
    for (dv=devlist->next; dv ; dv=dv->next) {
        rv = Grow_Add_device(devlist->devname, mdfd,
            dv->devname);
if (rv)
break;
}
} else if (s.bitmap_file) {
if (s.size > 0 || s.raiddisks || s.chunk ||
    s.layout_str || devs_found > 1) {
    pr_err("--bitmap changes cannot be used with other geometry changes in --grow mode\n");
    rv = 1;
    break;
}
} else if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;
r
} else if (grow_continue)
r
} else if (array_size == 0)
pr_err("no changes to --grow\n");
break;
case INCREMENTAL:
if (rebuild_map) {
RebuildMap();
}
if (c.scan) {
r
if (devlist) {
    pr_err("In --incremental mode, a device cannot be given with --scan\n");
    break;
}
if (c.runstop <= 0) {
    pr_err("--incremental --scan meaningless without --run\n");
    break;
}
if (devmode == 'f') {
    pr_err("--incremental --scan --fail not supported\n");
    break;
}
r
rv = IncrementalScan(&c, NULL);
} else if (!devlist) {
    if (!rebuild_map && !c.scan) {
        if (!s.bitmap_file) {
            pr_err("--bitmap changes cannot be used with other geometry changes in --grow mode\n");
            rv = 1;
            break;
        }
    }
    if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;
r
} else if (grow_continue)
r
} else if (s.size > 0 || s.raiddisks || s.chunk ||
    s.layout_str || devs_found > 1) {
    pr_err("--bitmap changes cannot be used with other geometry changes in --grow mode\n");
    rv = 1;
    break;
}
if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;
r
} else if (grow_continue)
r
} else if (array_size == 0)
pr_err("no changes to --grow\n");
break;
case INCREMENTAL:
if (rebuild_map) {
RebuildMap();
}
if (c.scan) {
r
if (devlist) {
    pr_err("In --incremental mode, a device cannot be given with --scan\n");
    break;
}
if (c.runstop <= 0) {
    pr_err("--incremental --scan meaningless without --run\n");
    break;
}
if (devmode == 'f') {
    pr_err("--incremental --scan --fail not supported\n");
    break;
}
r
rv = IncrementalScan(&c, NULL);
} else if (!devlist) {
    if (!rebuild_map && !c.scan) {
        if (!s.bitmap_file) {
            pr_err("--bitmap changes cannot be used with other geometry changes in --grow mode\n");
            rv = 1;
            break;
        }
    }
    if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;
r
} else if (grow_continue)
r
} else if (array_size == 0)
pr_err("no changes to --grow\n");
break;
pr_err("--incremental requires a device.");
rv = 1;
break;
}
if (devmode == 'f') {
if (devlist->next) {
pr_err("--incremental --fail can only handle one device.");
rv = 1;
break;
}
rv = IncrementalRemove(devlist->devname, remove_path,  
 c.verbose);
} else
rv = Incremental(devlist, &c, ss);
break;
case AUTODETECT:
autodetect();
break;
}
exit(rv);
}

static int scan_assemble(struct supertype *ss,  
 struct context *c,  
 struct mddev_ident *ident)
{
struct mddev_ident *a, *array_list = conf_get_ident(NULL);  
struct mddev_dev *devlist = conf_get_devs();  
struct map_ent *map = NULL;  
int cnt = 0;
int rv = 0;
int failures, successes;

if (conf_verify_devnames(array_list)) {
pr_err("Duplicate MD device names in conf file were found.");
return 1;
}
if (devlist == NULL) {
pr_err("No devices listed in conf file were found.");
return 1;
}
for (a = array_list; a ; a = a->next) {
  a->assembled = 0;
  if (a->autof == 0)
    a->autof = c->autof;
}
if (map_lock(&map))
pr_err("failed to get exclusive lock on mapfile\n");
do {
    failures = 0;
    successes = 0;
    rv = 0;
    for (a = array_list; a ; a = a->next) {
        int r;
        if (a->assembled)
            continue;
        if (a->devname &&
            strcasecmp(a->devname, "<ignore>") == 0)
            continue;
        r = Assemble(ss, a->devname,
            a, NULL, c);
        if (r == 0) {
            a->assembled = 1;
            successes++;
        } else
            failures++;
        rv |= r;
        cnt++;
    } while (failures && successes);
    if (c->homehost && cnt == 0) {
        /* Maybe we can auto-assemble something.
         * Repeatedly call Assemble in auto-assemble mode
         * until it fails
         */
        int rv2;
        int acnt;
        ident->autof = c->autof;
        do {
            struct mddev_dev *devlist = conf_get_devs();
            acnt = 0;
            do {
                rv2 = Assemble(ss, NULL,
                    ident,
                    devlist, c);
                if (rv2 == 0) {
                    cnt++;
                    acnt++;
                } while (rv2 != 2);
                /* Incase there are stacked devices, we need to go around again */
            } while (acnt);
            if (cnt == 0 && rv == 0) {
                pr_err("No arrays found in config file or automatically\n");
            } /* Incase there are stacked devices, we need to go around again */
        } while (acnt);
    }
}
rv = 1;
} else if (cnt)
rv = 0;
} else if (cnt == 0 && rv == 0) {
pr_err("No arrays found in config file\n");
rv = 1;
}
map_unlock(&map);
return rv;
}

static int misc_scan(char devmode, struct context *c)
{
/* apply --detail or --wait-clean to
 * all devices in /proc/mdstat
 */
struct mdstat_ent *ms = mdstat_read(0, 1);
struct mdstat_ent *e;
struct map_ent *map = NULL;
int members;
int rv = 0;

for (members = 0; members <= 1; members++) {
for (e=ms ; e ; e=e->next) {
char *name = NULL;
struct map_ent *me;
struct stat stb;
int member = e->metadata_version &&
strncmp(e->metadata_version,
"external:/", 10) == 0;
if (members != member)
continue;
me = map_by_devnm(&map, e->devnm);
if (me && me->path
 && strcmp(me->path, "/unknown") != 0)
name = get_md_name(e->devnm);
if (!name) {
pr_err("cannot find device file for %s\n", e->devnm);
continue;
}
if (devmode == 'D')
rv |= Detail(name, c);
else
rv |= WaitClean(name, -1, c->verbose);
put_md_name(name);
}
}
free_mdstat(ms);
return rv;
}

static int stop_scan(int verbose)
{
    /* apply --stop to all devices in /proc/mdstat */
    /* Due to possible stacking of devices, repeat until
    * nothing more can be stopped */
    int progress=1, err;
    int last = 0;
    int rv = 0;
    do {
        struct mdstat_ent *ms = mdstat_read(0, 0);
        struct mdstat_ent *e;

        if (!progress) last = 1;
        progress = 0; err = 0;
        for (e=ms ; e ; e=e->next) {
            char *name = get_md_name(e->devnm);
            int mdfd;

            if (!name) {
                pr_err("cannot find device file for %s\n",
                       e->devnm);
                continue;
            }

            mdfd = open_mddev(name, 1);
            if (mdfd >= 0) {
                if (Manage_stop(name, mdfd, verbose, !last))
                    err = 1;
                else
                    progress = 1;
                close(mdfd);
            }
        }
        put_md_name(name);
    } while (!last && err);
    if (err)
        rv |= 1;
    return rv;
}
static int misc_list(struct mddev_dev *devlist,
    struct mddev_ident *ident,
    char *dump_directory,
    struct supertype *ss, struct context *c)
{
    struct mddev_dev *dv;
    int rv = 0;

    for (dv=devlist ; dv; dv=(rv & 16) ? NULL : dv->next) {
        int mdfd;

        switch(dv->disposition) {
        case 'D':
            rv |= Detail(dv->devname, c);
            continue;
        case KillOpt: /* Zero superblock */
            if (ss)
                rv |= Kill(dv->devname, ss, c->force, c->verbose, 0);
            else {
                int v = c->verbose;
                do {
                    rv |= Kill(dv->devname, NULL, c->force, v, 0);
                    v = -1;
                } while (rv == 0);
                rv &= ~2;
            }
            continue;
        case 'Q':
            rv |= Query(dv->devname); continue;
        case 'X':
            rv |= ExamineBitmap(dv->devname, c->brief, ss); continue;
        case ExamineBB:
            rv |= ExamineBadblocks(dv->devname, c->brief, ss); continue;
        case 'W':
            case WaitOpt:
                rv |= Wait(dv->devname); continue;
            case Waitclean:
                rv |= WaitClean(dv->devname, -1, c->verbose); continue;
            case KillSubarray:
                rv |= Kill_subarray(dv->devname, c->subarray, c->verbose);
                continue;
            case UpdateSubarray:
                if (c->update == NULL) {
                    pr_err("-U/--update must be specified with --update-subarray\n");
                    rv |= 1;
                    continue;
                }
        ...
rv |= Update_subarray(dv->devname, c->subarray, c->update, ident, c->verbose);
continue;
case Dump:
rv |= Dump_metadata(dv->devname, dump_directory, c, ss);
continue;
case Restore:
rv |= Restore_metadata(dv->devname, dump_directory, c, ss, (dv == devlist && dv->next == NULL));
continue;
case Action:
rv |= SetAction(dv->devname, c->action);
continue;
}
if (dv->devname[0] == '/')
mdfd = open_mddev(dv->devname, 1);
else {
mdfd = open_dev(dv->devname);
if (mdfd < 0)
pr_err("Cannot open %s\n", dv->devname);
}
if (mdfd>=0) {
switch(dv->disposition) {
  case 'R':
c->runstop = 1;
rv |= Manage_run(dv->devname, mdfd, c); break;
  case 'S':
rv |= Manage_stop(dv->devname, mdfd, c->verbose, 0); break;
  case 'o':
rv |= Manage_ro(dv->devname, mdfd, 1); break;
  case 'w':
rv |= Manage_ro(dv->devname, mdfd, -1); break;
}
close(mdfd);
} else
rv |= 1;
}
return rv;

int SetAction(char *dev, char *action)
{
int fd = open(dev, O_RDONLY);
struct mdinfo mdi;
if (fd < 0) {
pr_err("Couldn’t open %s: %s\n", dev, strerror(errno));
return 1;
}
sysfs_init(&mdi, fd, NULL);
close(fd);
if (!mdi.sys_name[0]) {
    pr_err("%s is no an md array\n", dev);
    return 1;
}
if (sysfs_set_str(&mdi, NULL, "sync_action", action) < 0) {
    pr_err("Count not set action for %s to %s: %s\n",
        dev, action, strerror(errno));
    return 1;
}
return 0;

### 1.352 go-systemd 4 r0

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1.353 liburcu 0.10.1 r0

1.353.1 Available under license:

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.

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

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